SUPPLEMENTAL RFI INTERIM FINAL REPORT ADDENDUM

ZENECA INC.
DIGHTON, MASSACHUSETTS

Prepared For: Zeneca Inc.

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Supplemental RFI Interim Final Report Addendum
October 2010

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) has prepared this Addendum to the Supplemental Resource Conservation and Recovery Act (RCRA) Facility Investigation (SRFI) Interim Final Report on behalf of Zeneca Inc. (Zeneca) for their former manufacturing facility in Dighton, Massachusetts (Site). Zeneca began the phased closure of the manufacturing facility in 1994. In 1994, Zeneca entered into the voluntary RCRA Corrective Action Program and conducted extensive investigations under the Voluntary RCRA Corrective Action Program, as well as under the Massachusetts Contingency Plan (MCP). On May 14, 2004, Zeneca and the United States Environmental Protection Agency (USEPA) entered into an Administrative Order on Consent (Consent Order) for the completion of the RCRA Corrective Action.

Zeneca submitted the draft SRFI Interim Final Report to USEPA on April 20, 2007. Several rounds of USEPA comments and Zeneca responses followed. During 2009, Zeneca completed additional investigation activities to address identified data gaps in the SRFI. Zeneca and USEPA agreed to revise the draft SRFI Interim Final Report in accordance with the USEPA comments/Zeneca responses and to present the results for the additional SRFI investigation activities in an SRFI Interim Final Report Addendum. This SRFI Interim Final Report Addendum presents results for additional field investigation work conducted at the Site during the time period from May to October 2009. The results are compared to applicable screening criteria and used to further define the nature and extent of contamination at the Site. The results are also evaluated relative to the Site conceptual model and conclusions presented in the SRFI report.

2.0 SRFI ADDENDUM SCOPE OF WORK

The proposed additional SRFI activities to address identified data gaps were presented in a letter to USEPA dated March 13, 2009. USEPA approved the scope of work on April 30, 2009. The work tasks for the SRFI Addendum include the following:

- Install two new monitoring wells MW-37-S and MW-31R-S
- Collect and analyze a round of groundwater samples from selected monitoring wells including the two new monitoring wells
- Collect and analyze four surface water samples from the Encapsulated Lagoon
- Collect and analyze eight surface soil samples from the Encapsulated Lagoon and four surface soil samples from the Former Service Station Area
- Contact City of Dighton, Water Department and obtain any records of private wells in the neighborhoods of Muddy Cove Land and Water Street

Although not part of the USEPA approved scope of work for the SRFI Addendum, a sample was collected of surface water discharging from the Encapsulated Lagoon into the Route 138 roadside ditch. Also, sampling was performed for the RSO Service Station during 2007, 2008, and 2009. The results for these additional activities are included in this report for completeness.

3.0 FIELD ACTIVITIES

The following subsections describe the field activities conducted for the SRFI Addendum.

3.1 NEW MONITORING WELL INSTALLATIONS

Two new monitoring wells (MW-31R-S and MW-37-S) were installed at the locations shown on Figure 3.1. Stratigraphic and instrumentation logs are presented in Appendix A. Monitoring well completion details are included in Table 3.1.

Monitoring well MW-31R-S replaces MW-31-S located south of the former Main Office in AOC3 and monitoring well MW-37-S is used to further define groundwater chemistry in the shallow overburden, north of the former MP Building. Boreholes and monitoring wells were installed using hollow-stem auger techniques. At each of these locations, pilot boreholes were drilled in order to collect stratigraphic information and soil samples for grain size analyses to aid in the design of the monitoring wells. At the pilot borehole for MW-31R-S, a grain size sample was collected over the depth interval of 8 to 16 feet below ground surface (bgs). At the pilot borehole for MW-37-S, a grain size sample was collected over the depth interval of 12 to 22 feet bgs. The borehole logs and grain size distribution results are presented in Appendix A.

The new wells were developed using a surge block and pumping. While developing both wells went dry and continued to have high turbidity. However, reduced turbidity levels of 0 NTU at MW-37-S and 71.5 NTU at MW-31R-S were achieved during low flow groundwater sampling. Well development logs are presented in Appendix B.

3.2 WATER LEVEL MEASUREMENTS

Prior to collection of the groundwater samples, a round of water level measurements was collected on June 3, 2009. The depth-to-water measurements were used to calculate the groundwater elevations at each well, and are presented in Table 3.2. Groundwater contours for June 3, 2009 are shown for the shallow overburden, the deep overburden/ weathered bedrock, and the bedrock on Figures 3.2, 3.3, and 3.4, respectively.

Upon comparison of the water level data for June 3, 2009 to the data presented in the SRFI Report, the groundwater flow conditions have been relatively consistent during all water level measuring events (i.e., January 2004, August 2005, May 2006, and June 2009).

3.3 GROUNDWATER SAMPLE COLLECTION

Groundwater samples were collected at the wells listed in the SRFI Addendum scope of work, during the period from June 9 to October 6, 2009, with the following exceptions. Monitoring wells OW-2, MW-10, and MW-21-12 were not accessible as these wells are located in a low topographic area and were flooded at the time of sampling. Wells MW-2, TW-2, GP-414S, GP-418S, and GP-419S were not found and appear to be covered over. A sample key summarizing the samples collected is presented in Table 3.3. Monitoring well purge records are presented in Appendix C.

Groundwater samples were analyzed for the following parameters:

- TCL VOCs including 1,2,3-trichlorobenzene
- TCL SVOCs including aniline
- TAL metals (total)
- PCBs (aroclors), and PCBs (homologues) if the concentration of PCB aroclors is greater than 500 μg/L
- pH

Groundwater samples were also analyzed for the following parameters in order to provide biodegradation information for the Corrective Measures Study:

- Ammonia
- TAL metals (dissolved)
- Oxidation-Reduction Potential (ORP)
- Dissolved Organic Carbon
- Nitrate/Nitrite
- Sulfate
- Alkalinity
- Chloride
- CO_2

In accordance with the SRFI Addendum scope of work, PCB homologues were to be analyzed only if the total PCB aroclor concentration exceeded 500 μg/L. None of the groundwater samples had total PCB aroclor concentrations greater than 500 μg/L and therefore no homologue analyses were performed.

The groundwater analytical results are presented in Table 3.4. The data validation report is presented in Appendix D.

3.4 SURFACE WATER SAMPLING

Four surface water samples were collected on August 4, 2009 from the Encapsulated Lagoon area. Surface water sampling locations are shown on Figure 3.5, and the sample key is presented in Table 3.3. Surface water samples were analyzed for the following parameters:

- TCL VOCs including 1,2,3-trichlorobenzene
- TCL SVOCs including aniline
- TAL metals (filtered and total)
- PCBs (aroclors), and PCBs (homologues) if the concentration of PCB aroclors is greater than 500 µg/L
- Hardness
- pH
- Total Organic Carbon (TOC)

In accordance with the SRFI Addendum scope of work, PCB homologues were to be analyzed only if the total PCB aroclor concentration exceeded 500 µg/L. Since none of the surface water samples had total PCB aroclor concentrations greater than 500 µg/L, no homologue analyses were performed.

In addition, one sample of surface water discharging from the Encapsulated Lagoon to the Route 138 roadside ditch was collected on December 12, 2008. The surface water sample location is shown on Figure 3.5. The sample was analyzed for the following parameters:

- TCL VOCs (including 1,2,3-trichlorobenzene)
- TCL SVOCs (including aniline)
- TAL metals (filtered)
- PCBs (aroclors)
- Hardness
- pH

Analytical results are presented in Table 3.5. The data validation report is presented in Appendix D.

3.5 SURFACE SOIL SAMPLING

A total of eight surface soil samples were collected in the Encapsulated Lagoon and four surface soil samples were collected in the Former Service Station Area during the period of August 4 to August 5, 2009. Sampling locations are shown on Figure 3.5 and the sampling key is presented in Table 3.3.

A surface soil sample was collected at each designated location by using a clean acetate liner inside a MacroCore® sampler. The MacroCore® sampler was advanced 1 foot into the ground. The sampler was then retrieved and the liner removed with the soil sample inside.

Surface soil samples were analyzed for the following parameters:

- TCL VOCs (including 1,2,3-trichlorobenzene)
- TCL SVOCs (including aniline)
- TAL metals
- PCBs (aroclors), and PCBs (homologues) if the concentration of PCB aroclors is greater than 500 μg/kg

In accordance with the SRFI Addendum scope of work, PCB homologues were to be analyzed only if the total PCB aroclor concentration exceeded 500 μg/kg. Surface soil samples collected at five locations had total PCB aroclor concentrations greater than 500 μg/kg, and were subsequently analyzed for PCB homologues. One sample (SS-SS4) was located in the Former Service Station Area; four samples were located in the Encapsulated Lagoon area, and include SS-L1, SS-L2, SS-L3, and SS-L6.

Analytical results are presented in Tables 3.6A to 3.6D. The data validation report is presented in Appendix D.

3.6 PRIVATE WELL INVESTIGATION

Officials at the Dighton Town Hall and the Town Building Inspector were contacted on October 8, 2009 and October 14, 2009, respectively and they indicated that they had no records of private wells located along Water Street and Muddy Cove Lane.

4.0 SCREENING CRITERIA

The soil and groundwater analytical data were compared to MCP Method 1 Standards and USEPA Preliminary Remediation Goals (PRGs). Ecological criteria were also used to screen surface water data for the Encapsulated Lagoon and sediment data for Taunton River. Descriptions of the criteria and their applicability to the Site are described in the following sections.

4.1 SOIL CRITERIA

Massachusetts Contingency Plan Method 1 Standards

For risk characterization purposes, the MCP Method 1 criteria for categorizing soils are based on the frequency and intensity of use for adults and children, and on potential accessibility.

In accordance with the MCP 310 CMR 40.0933, the frequency of use can be either "high" or "low" according to the following criteria:

"1. *Children's frequency of use shall be characterized as high if:*

   a. *any children reside, attend school or attend day care at the disposal site; or*

   b. *large numbers of children visit the disposal site, regardless of any one child's frequency of visitation.*

2. *Adults' frequency of use shall be characterized as high when they reside at the disposal site, or when they work at the disposal site on a continuing basis [i.e., full days or shifts of eight or more hours per day on a continuing basis].*

3. *Children's or adults' frequency of use shall be characterized as low when they are present at the disposal site, but only as infrequent visitors; or when workers are present at the disposal site for only short periods of time [i.e., less than two hours per day on a continuing basis, or for full days or shifts on a sporadic basis].*

4. *It shall be presumed that children may be present at the disposal site unless it can be demonstrated that access by children age 15 and younger is specifically restricted or that such children are highly unlikely to be present, in which case children may be considered to be "Not Present".*

The intensity of use can be either "high" or "low" according to the following criteria.

1. *"Site Activities and Uses which have the potential to disturb soil and thus result in either direct contact with the soil itself or inhalation of soil-derived dust shall be characterized as high intensity use. Examples of such activities include, without limitation, gardening, digging, and recreational sports.*
2. *Passive activities which do not disturb the soil, such as walking, shopping, and bird watching shall be characterized as low intensity use."*

The accessibility of the soils can be categorized as "accessible", "potentially accessible", or "isolated" according to the following criteria:

"Soil shall be characterized as "accessible" if it is located less than three feet below the surface, and the surface is not completely covered by pavement. For buildings having earthen floors, the floor shall be considered as the soil surface.

Soil shall be characterized as "potentially accessible" if it is located at a depth of 3 to 15 feet below the surface (with or without pavement), or if the soil is located less than three feet from the surface in an area completely paved.

Soil shall be characterized as "isolated" if it is located at a depth greater than 15 feet below the surface, or if the soil is covered completely by a building or other permanent structure which does not have earthen floors, regardless of depth. Soil located at a depth greater than three feet below the earthen floor of a building or other permanent structure shall also be characterized as "isolated"."

Using the above definitions, soil would be classified as Category S-1 if either:

a) *"the soil of concern is accessible, pursuant to 310 CMR 40.0933(4)(c)1., and either:*

b) *the soil is currently used for growing fruits or vegetables for human consumption, or if it is reasonably foreseeable that the soil may be put to such use; or*

c) *a child's frequency or intensity of use is considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c); or*

d) *an adult's frequency and intensity of use are both considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c); or*

e) *the soil is potentially accessible, pursuant to 310 CMR 40.0933(4)(c)2., and a child's frequency and intensity of use are both considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c)."*

or as Category S-2 if either:

"*(a)* *the soil is accessible, pursuant to 310 CMR 40.0933(4)(c)1., and:*

i) *a child's frequency and intensity of use are both considered to be low pursuant to 310 CMR 40.0933(4)(b) and (c); or*

ii) *children are not present at the disposal site and either (but not both) the adults' frequency or intensity of use is considered to be high, pursuant to 310 CMR 40.0933(4)(b) and (c); or*

(b) *the soil is potentially accessible, pursuant to 310 CMR 40.0933(4)(c)2., and:*

i) *either (but not both) a child's frequency or intensity of use is considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c); or*

ii) *children are not present at the disposal site and an adult's frequency and intensity of use are both considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c).*"

Soil shall be classified as Category S-3 if either:

a) "*the soil is accessible, pursuant to 310 CMR 40.0933(4)(c)1., and children are not present at the disposal site and an adult's frequency and intensity of use are both considered to be low pursuant to 310 CMR 40.0933(4)(b) and (c); or*

b) *the soil is potentially accessible pursuant to 310 CMR 40.0933(4)(c)2., and:*

i) *a child's frequency and intensity of use are both considered to be low pursuant to 310 CMR 40.0933(4)(b) and (c); or*

ii) *a demonstration has been made that children are not present at the disposal site, and either an adult's frequency or intensity of use is considered to be low pursuant to 310 CMR 40.0933(4)(b) and (c); or*

c) *the soil is isolated pursuant to 310 CMR 40.0933(4)(c)3., regardless of any receptor's frequency or intensity of use.*"

USEPA PRGs

USEPA Region 1 uses USEPA Region 9 PRGs as screening criteria. The Region 9 PRGs have been harmonized with similar risk-based screening levels used by Regions 3 and 6 into a single table: "Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites." The Region 9 Regional Screening Levels (hereinafter called "USEPA PRGs") are risk-based concentrations in environmental media (soil, air, and water) that

are considered to be protective of humans, including sensitive groups, over a lifetime. The PRGs are chemical concentrations that correspond to fixed levels of risk (i.e., either a one-in-one-million (10^{-6}) cancer risk or a non-carcinogenic hazard quotient of 1). The PRGs can be accessed at www.epa.gov/region09/waste/sfund/prg/index.html. According to USEPA, exceeding a PRG suggests that further evaluation of the potential risks that may be posed by the Site contaminants is appropriate; however, PRGs are not cleanup levels.

The PRGs are based on exposure pathways for which generally accepted methods, models, and assumptions have been developed (i.e., ingestion, dermal contact, and inhalation) for specific land-use conditions (i.e., residential or industrial). For the industrial land use appropriate for the Site, the PRGs for soil are based on the following exposure pathways: ingestion, inhalation of particulates, inhalation of volatiles, and dermal absorption.

The Dighton on-Site soil data including the surface soil data presented in this SRFI Addendum are screened against the industrial soil PRGs.

Summary of Soil Criteria for SRFI Addendum

Based on the current frequency and intensity of use and on potential accessibility, the surface soil on the Site would be categorized as S-2 or S-3. The following system for comparison to criteria was employed:

On-Site Soils

Surface soils (0 to 1 ft bgs):

- Unpaved: S-2/GW-2 and S-2/GW-3 and USEPA PRGs

Surface soils within the PPA area:

- Unpaved: S-2/GW-1, S-2/GW-2, S-2/GW-3, and USEPA PRGs

All surface soil samples were collected in unpaved areas.

4.2 GROUNDWATER CRITERIA

The MCP distinguishes between three different groundwater categories, as described below (310 CMR 40.0932).

"*Groundwater at all disposal sites shall be considered a potential source of discharge to surface water and shall be categorized, at a minimum, as category GW-3. The site, receptors, and exposure information identified in 310 CMR 40.0904 through 40.0929 shall be used in conjunction with the criteria listed below to determine if the groundwater shall also be categorized as GW-1 and/or GW-2.*

Groundwater Category GW-1 *Except as provided by 310 CMR 40.0932(5), groundwater shall be defined as GW-1 if the groundwater is located:*

(a) within a Current Drinking Water Source Area; or

(b) within a Potential Drinking Water Source Area.

Groundwater Category GW-2. *Groundwater shall be defined to be in category GW-2 if it is located within 30 feet of an existing occupied building or structure, and the average annual depth to groundwater in that area is 15 feet or less. Category GW-2 groundwater is considered to be a potential source of vapors of oil and/or hazardous material to indoor air.*

MassDEP defines Current Drinking Water Supply Areas as:

- *within the Zone II for a public water supply;*
- *within the Interim Wellhead Protection Area for a public water supply;*
- *within 500 feet of a private water supply well; or*
- *within the Zone A of a Class A surface water body used as a public water supply.*

Potential Drinking Water Source Areas are defined as groundwater located:

- *greater than 500 feet from a public water supply distribution pipeline, unless the groundwater is located under a parcel of land or a facility where any portion of that parcel of land or facility is located less than 500 feet from a public water supply distribution pipeline;*
- *within an area designated by a municipality specifically for the protection of groundwater quality to ensure its availability for use as a source of potable water supply protection zones (e.g., Aquifer Protection District or Zone); or*

- *within a Potentially Productive Aquifer that has not been excluded as a Non-Potential Drinking water Source Area.*

A Potentially Productive Aquifer (PPA) is a medium yield aquifer that has a transmissivity of between 10,000 and 30,000 gpfd and a yield of 100 to 300 gpm. A portion of the overburden in the northeast section of the Site was identified by the MassDEP as a PPA, based on information included in the United States Geological Survey (USGS) 1973 Hydrogeologic Investigations Atlas HA-460 "Water Resources of the Taunton River Basin, Southeastern Massachusetts (Williams et al., 1973). As presented in Section 7.4 of the SRFI Report, an area on Site and off Site to the east was identified that had transmissivity values between 10,000 and 30,000 gallons per day. This area is referred to as a MYTA.

Presently, there are no existing structures on the Property other than the Pump House and the temporary Office Trailer. However, there are no current deed restrictions for AOC1, 2, 4, and 5 preventing future structures from being built and therefore, Class GW-2 could apply to these areas in the future. In AOC3, a Grant of Environmental Restriction (GER) has been established that requires the potential presence of indoor air issues to be evaluated for any new buildings.

Consistent with the SRFI Report, the groundwater analytical data for this SRFI Addendum were compared to the MCP Method 1 criteria as follows:

Overburden Groundwater:

- Within PPA and MYTA on the east part of the Site (includes part of AOC1): GW-1[1], GW-2, and GW-3
- Elsewhere at the Site (remainder of AOC1, and AOCs 3-5): GW-2 and GW-3

Deep Overburden/Weathered Bedrock:

- Within PPA and MYTA: GW-1[2] and GW-3 (the depth to the deep overburden is greater than 15 feet and, therefore, too deep for GW-2 to apply)
- Elsewhere at the Site: GW-3

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1 Overburden groundwater data within the MYTA is screened against the GW-1 criteria to be conservative even though the MYTA is not specifically designated as a PPA.

2 The presence of sand and gravel deposits are the basis of the PPA designation in the Dighton area. However, weathered bedrock groundwater data within the MYTA is screened against GW-1 criteria to be conservative.

Bedrock Groundwater:

- GW-3 (the depth to the water bearing fractures are greater than 15 feet, therefore GW-2 does not apply)

4.3 SURFACE WATER QUALITY CRITERIA

USEPA developed Ambient Water Quality Criteria (AWQC) for freshwater and salt water that are protective of human health and the aquatic environment. The AWQC are included in the screening of surface water data, as well as the ecological screening values (ESVs) used in the ecological risk assessment (CRA, 2007). For parameters chromium, copper, lead, and zinc, Site-specific hardness-based criteria were calculated using a measured hardness value of 50 mg/L.

4.4 SEDIMENT CRITERIA

When available, threshold effect concentrations (TEC) values (MacDonald et al., 2000) were used to screen chemicals in aquatic sediments. The TEC values are based on a variety of other sediment quality guidelines, such as NOAA's ER-L values and Ontario's LEL. The TEC values are also recommended as screening values by the Commonwealth of Massachusetts. If a TEC value was unavailable, sediment quality values presented in USEPA Region V were used. As a final source, sediment quality values from NOAA (1999) were used. These criteria are collectively referred to as the ESVs in the text.

5.0 DATA EVALUATION

5.1 FORMER SERVICE STATION AREA SURFACE SOIL

5.1.1 INSIDE PPA

One surface soil sample, SS-SS1, was collected within the Potentially Productive Aquifer (PPA), as indicated on Figure 3.5. The analytical results for SS-SS1 are presented in Table 3.6A, and are compared to S-2/GW-1, S-2/GW-2, S-2/GW-3, and USEPA PRGs. Parameter concentrations that exceeded any of the corresponding screening criteria are indicated in Table 3.6A, and are summarized in the following table.

USEPA PRGs

Compound	*USEPA PRGs Criteria (mg/kg)*	*Detections/ Samples*	*Exceedances*	*Range of Detected Values (mg/kg)*	*Maximum Detect Location*
Arsenic	1.6	1/1	1	3.2	SS-SS1

Only arsenic was detected in the sample at SS-SS1 at a concentrations above the screening levels. However, the concentration of arsenic at SS-SS1 was within the range of background concentrations (1.4 to 4.9 mg/kg for the Site soils) as reported in the SRFI report and therefore is not Site related.

5.1.2 OUTSIDE PPA

Three surface soil samples (SS-SS2, SS-SS3, SS-SS4) were collected outside the PPA, as indicated on Figure 3.5. The analytical results for these soil samples are presented in Table 3.6B, and are compared to S-2/GW-2, S-2/GW-3, and USEPA PRGs. Parameter concentrations that exceeded any of the corresponding screening criteria are indicated in Table 3.6B, and are summarized in the following tables.

S-2/GW-2

Compound	*S-2/GW-2 Criteria (mg/kg)*	*Detections/ Samples*	*Exceedances*	*Range of Detected Values (mg/kg)*	*Maximum Detect Location*
Lead	300	3/3	1	34.9 - 368	SS-SS3

S-2/GW-3

Compound	*S-2/GW-3 Criteria (mg/kg)*	*Detections/ Samples*	*Exceedances*	*Range of Detected Values (mg/kg)*	*Maximum Detect Location*
Lead	300	3/3	1	34.9 - 368	SS-SS3

USEPA PRGs

Compound	*S-2/GW-2 Criteria (mg/kg)*	*Detections/ Samples*	*Exceedances*	*Range of Detected Values (mg/kg)*	*Maximum Detect Location*
Benzo(a)pyrene	0.21	3/3	1	0.044 - 0.24	SS-SS2

These data indicate that lead and benzo(a)pyrene were each detected in one of the three surface soil samples at concentrations that are slightly higher than the screening criteria.

6.0 ENCAPSULATION LAGOON SURFACE SOIL

6.1 INSIDE PPA

One surface soil sample, SS-L3, was collected within the Encapsulated Lagoon and along the edge of the PPA, as indicated on Figure 3.5. The analytical results for this soil sample are presented in Table 3.6C, and are compared to S-2/GW-1, S-2/GW-2, S-2/GW-3, and USEPA PRGs. Parameter concentrations that exceeded any of the corresponding screening criteria are indicated in Table 3.6C, and are summarized in the following tables.

S-2/GW-1

Compound	*S-2/GW-1 Criteria (mg/kg)*	*Detections/ Samples*	*Exceedances*	*Range of Detected Values (mg/kg)*	*Maximum Detect Location*
Total PCBs	3	1/1	1	4.62	SS-L3

S-2/GW-2

Compound	*S-2/GW-2 Criteria (mg/kg)*	*Detections/ Samples*	*Exceedances*	*Range of Detected Values (mg/kg)*	*Maximum Detect Location*
Total PCBs	3	1/1	1	4.62	SS-L3

S-2/GW-3

Compound	*S-2/GW-3 Criteria (mg/kg)*	*Detections/ Samples*	*Exceedances*	*Range of Detected Values (mg/kg)*	*Maximum Detect Location*
Total PCBs	3	1/1	1	4.62	SS-L3

USEPA PRGs

Compound	*USEPA PRGs Criteria (mg/kg)*	*Detections/ Samples*	*Exceedances*	*Range of Detected Values (mg/kg)*	*Maximum Detect Location*
Arsenic	1.6	1/1	1	6.6	SS-L3
Aroclor-1248	0.74	1/1	1	3.3	SS-L3
Aroclor-1254	0.74	1/1	1	1.1	SS-L3
Total PCBs	0.74	1/1	1	4.62	SS-L3

These data indicate that PCBs were detected at SS-L3 at a concentration above the screening levels. Arsenic was also detected at a concentration above the corresponding PRG; however, the detected concentration is only slightly higher that the range of background levels for arsenic.

6.2 OUTSIDE PPA

Seven surface soil samples (SS-L1, SS-L2, SS-L4, SS-L5, SS-L6, SS-L7, SS-L8) were collected from the Encapsulated Lagoon outside the PPA, as indicated on Figure 3.5. The analytical results for these soil samples are presented in Table 3.6D, and are compared to S-2/GW-2, S-2/GW-3, and USEPA PRGs. Parameter concentrations that exceeded any of the corresponding screening criteria are indicated in Table 3.6D, and are summarized in the following tables.

S-2/GW-2

Compound	*S-2/GW-2 Criteria (mg/kg)*	*Detections/ Samples*	*Exceedances*	*Range of Detected Values (mg/kg)*	*Maximum Detect Location*
1,2,4-Trichlorobenzene	70	4/7	1	0.0021J – 94	SS-L2
Chlorobenzene	3	3/7	1	0.0016J – 14	SS-L2
Total PCBs	3	7/7	2	0.01J - 4.82	SS-L1

S-2/GW-3

Compound	*S-2/GW-3 Criteria (mg/kg)*	*Detections/ Samples*	*Exceedances*	*Range of Detected Values (mg/kg)*	*Maximum Detect Location*
Total PCBs	3	7/7	2	0.01J - 4.82	SS-L1

USEPA PRGs

Compound	*USEPA PRGs Criteria (mg/kg)*	*Detections/ Samples*	*Exceedances*	*Range of Detected Values (mg/kg)*	*Maximum Detect Location*
Aroclor-1248	0.74	4/7	3	0.13 – 3.4	SS-L1
Aroclor-1254	0.74	7/7	2	0.0092J – 1.2	SS-L1
Arsenic	1.6	7/7	7	5.3 - 10.5	SS-L1
Benzo(a)pyrene	0.21	4/7	1	0.015J - 0.31	SS-L1
Total PCBs	0.74	7/7	3	0.01J – 4.82	SS-L1

The analytical results indicate that 1,2,4-trichlorobenzene, chlorobenzene, PCBs, arsenic, and benzo(a)pyrene exceeded the screening criteria in one or more samples. The highest concentrations were detected at SS-L1 and SS-L2 located at the western end of the Encapsulated Lagoon.

7.0 ENCAPSULATED LAGOON SURFACE WATER

Five surface water samples (SW-L1, SW-L2, SW-L3, SW-L4, DW-1) were collected at the locations indicated on Figure 3.5. The analytical results for these surface water samples are presented in Table 3.5, and are compared to Ecological Screening Values (ESVs) and USEPA Ambient Water Quality Criteria.

Parameter concentrations that exceeded any of the corresponding criteria are indicated in Table 3.5, and are summarized in the following table.

USEPA AWQC

Compound	*USEPA AWQC Criteria (µg/L)*	*Detections/ Samples*	*Exceedances*	*Range of Detected Values (µg/L)*	*Maximum Detect Location*
Bis(2-ethylhexyl) phthalate	2.2	4/5	3	2.0 - 3.2	SW-L1
Arsenic (dissolved)	0.14	4/5	4	0.64J - 0.97J	SW-L1
Arsenic (total)	0.14	4/4	4	1.3 - 2.4	SW-L4
Manganese (dissolved)	100	5/5	2	13.7J - 193	SW-L2
Manganese (total)	100	4/4	4	218 - 1,510	SW-L4

The data indicate that only bis(2-ethylhexyl)phthalate, arsenic (dissolved and total), and manganese (dissolved and total) were detected at concentrations above the screening criteria. No parameters exceeded any of the USEPA screening levels in the surface water sample collected at the discharge location, DW-1.

ESVs

Compound	*ESV Criteria (µg/L)*	*Detections/ Samples*	*Exceedances*	*Range of Detected Values (µg/L)*	*Maximum Detect Location*
Manganese (dissolved)	80	5/5	4	13.7J - 193	SW-L2
Manganese (total)	80	4/4	4	218 - 1,510	SW-L4
Iron (total)	1,000	4/4	4	2,500 - 6,810	SW-L4
Lead (total)	1.32	4/4	2	0.17J - 3.5	SW-L4

The data indicate that only manganese (dissolved and total), iron (total), and lead (total) were detected at concentrations above the screening criteria. No parameters exceeded any of the ESV screening levels in the surface water sample collected at the discharge location, DW-1.

8.0 GROUNDWATER

The Addendum groundwater results are presented in Table 3.4. Historical groundwater data are presented in Appendix F of the SRFI Report. For the SRFI, the following parameters were identified as the primary constituents in the groundwater: arsenic, lead, mercury, chlorobenzene, nitrobenzene, 1,2,4-trichlorobenzene, trichloroethene, and PCBs. The following evaluation focuses on the distribution of these primary constituents in the groundwater based on sampling performed since the SRFI (i.e., 2007 to 2009). The evaluation also compares the Addendum results to the concentrations presented in the SRFI report.

8.1 OVERBURDEN GROUNDWATER

Figures 8.1 through 8.8 present chemical concentration contour plans for the overburden groundwater for primary constituents arsenic, lead, mercury, chlorobenzene, nitrobenzene, 1,2,4-trichlorobenzene, trichloroethene, and PCBs, respectively. The data on the figures are from 2007 to 2009 where each value presented in μg/L is the most recent result for any single location. Superimposed on Figures 8.1 to 8.8 are the corresponding figures from the SRFI Report that presented the data from 2003 to 2006 where each point was the most recent result for that time period for any single location. Since an isoconcentration figure for arsenic was not presented in the SRFI Report, a new plan showing the arsenic results for the period 2003 to 2006 was developed and is superimposed on Figure 8.1. For arsenic, lead, mercury, and PCBs, the data presented on the figures are for samples collected from monitoring wells and the GP-400 series mini wells. For chlorobenzene, nitrobenzene, 1,2,4-trichlorobenzene, and trichloroethene, the data include samples from monitoring wells, the GP-400 series mini wells, and the GP-600 and 700 series Geoprobe® samples. The GP-600 and 700 series Geoprobe® sample data were not used for arsenic, lead, mercury, and PCBs figures since results for these parameters can be significantly impacted by the presence of sediments in the samples and water samples from the Geoprobe® borings typically have higher amounts of sediments than samples from nearby monitoring wells.

Arsenic

The data presented on Figure 8.1 indicate that the GW-1 screening criterion for arsenic (10 μg/L) was exceeded at several locations; however, only one of these locations, MW-27-S, lies within the PPA/MYTA where GW-1 is an applicable screening criterion. Note, well MW-31R-S is located within the PPA and the arsenic concentration at MW-31R-S exceeded the GW-1 criterion, but this well is within AOC3 where the GER is

in effect. The arsenic concentrations at all of the shallow overburden wells were below the GW-3 screening criterion of 900 μg/L.

In comparison with the SRFI arsenic concentrations (see insert on Figure 8.1), the Addendum arsenic concentrations generally show the same areas of impact. However, the Addendum arsenic concentrations are generally lower than the corresponding SRFI concentrations. For example, at well MW-31/31R-S the concentration of arsenic decreased from 55.2 μg/L to 17.9 μg/L; at MW-10-14, from 54.7 μg/L to 17.0 μg/L; at GP-412, from 443 μg/L to 180 μg/L; and at MW-33-S, from 1,000 μg/L to 436 μg/L.

Lead

The concentration contours shown on Figure 8.2 indicate that the highest concentrations of lead were detected in the Encapsulated Lagoon (AOC1) at MW-33-S (37.8 μg/L) and east of the Former Service Station Area at MW-3 (70.9 μg/L). The concentration at well MW-4 (12.7 μg/L), also located east of the Former Service Station Area was above the GW-3 screening criterion of 10 μg/L. Wells GP-406 and GP-418S that had reported elevated concentrations of lead in the SRFI could not be sampled during 2007 to 2009 since these mini-wells could not be located. For the SRFI, well MW-31-S located south of the former Main Office had elevated concentrations of lead and other metals. However, well MW-31-S was silt laden and thus the total lead concentration reported for the well may not have been representative of groundwater concentrations. A replacement well (MW-31R-S) was installed at MW-31-S and was sampled on July 20, 2009. The turbidity level at MW-31R-S was 71.5 NTU whereas the turbidity level at MW-31-S was consistently >999 NTU for the SRFI. Metals concentrations, including lead, in the sample from well MW-31R-S were much lower than the concentrations at MW-31-S and well below the GW-3 screening criteria.

In comparison with the SRFI lead concentrations (see insert on Figure 8.2), the Addendum lead concentrations continue to show an impact in the Encapsulated Lagoon area at well MW-33-S. However, the lead concentration at this well decreased from 116 μg/L for the SRFI to 37.8 μg/L for the Addendum investigation. The lead concentration at well MW-3 increased from 8.1 μg/L for the SRFI to 70.9 μg/L for the Addendum investigation. Higher lead concentrations were reported in the Addendum samples from MW-3 and MW-4 as compared to the SRFI results, however, as noted in the SRFI Report, lead has historically been detected in the overburden groundwater at MW-3 and MW-4 at concentrations above the GW-1 and GW-3 criteria.

Mercury

The isoconcentration contours for mercury shown on Figure 8.3 indicate that the highest concentration was detected at the southeastern end of the Encapsulated Lagoon at MW-35-S (6.9 μg/L). However, this concentration is still below the GW-3 screening criterion of 20 μg/L. In general, the concentrations of mercury are highest within the Encapsulated Lagoon and do not appear to be migrating off Site above the GW-3 screening criterion within the overburden. This is consistent with the results presented in the SRFI Report (see insert on Figure 8.3).

The Addendum mercury concentrations are consistent with the SRFI results with an increase detected at well MW-35-S (0.96 μg/L to 6.9 μg/L) and a decrease detected at well MW-6 (5.1 μg/L to 0.16J μg/L).

Chlorobenzene

The results shown on Figure 8.4 indicate that the highest concentrations of chlorobenzene were detected in the Encapsulated Lagoon (AOC1) at MW-33-S (13,000 μg/L), near the former WWTF Warehouse at GP-412 (6,700 μg/L), and northeast of the former MP Building at the new monitoring well MW-37-S (1,800 μg/L).

A comparison of the Addendum distribution of chlorobenzene to the results presented in the SRFI report indicates a significant reduction in the concentrations in the off-Site area particularly at wells MW-4, MW-27-S, MW-28-S, and MW-12-19 located south of the Encapsulated Lagoon. As reported in the SRFI Report, the isoconcentration figure indicates that chlorobenzene has migrated east of the Site in the overburden; however, the concentrations measured in the locations nearest to the residences east of the Site are below GW-1, GW-2, and GW-3 criteria. The Addendum data also indicate migration of chlorobenzene above the GW-3 criterion in the overburden groundwater north of the former MP Building at the new monitoring well MW-37-S.

Nitrobenzene

The results presented on Figure 8.5 indicate that concentrations of nitrobenzene above 5,500 μg/L (the calculated GW-3 criterion) were detected within the Encapsulated Lagoon at MW-33-S (15,000 μg/L) and north of the former MP Building at new well MW-37-S (8,000 μg/L). The nitrobenzene concentration at well MW-4 (710 μg/L) located east of the Former Service Station Area and adjacent to the MYTA was above the calculated GW-1 screening level of 3.9 μg/L.

In comparison with the SRFI nitrobenzene concentrations (see insert on Figure 8.5), the Addendum nitrobenzene concentrations have shown a notable decrease. For example, from the SRFI to the Addendum investigation the nitrobenzene concentration decreased at MW-12-19 from 25,000 μg/L to 4.4 μg/L; at MW-33-S, from 260,000 μg/L to 15,000 μg/L; at MW-4, from 2,300 μg/L to 710 μg/L; and at MW-28-S, from 1,300 μg/L to non-detect at a detection limit of 0.19 μg/L.

1,2,4-Trichlorobenzene

As shown on Figure 8.6, the highest concentrations of 1,2,4-trichlorobenzene were detected south of the former WWTF Warehouse at GP-412 (5,300 μg/L) and in the Encapsulated Lagoon at MW-33-S (1,700 μg/L). However, only the 1,2,4-trichlorobenzene concentration at GP-412 exceeds the GW-2 criterion of 2,000 μg/L. 1,2,4-Trichlorobenzene does not exceed GW-2 or GW-3 criteria at any of the other overburden groundwater wells at the Site or off Site.

Compared to the SRFI 1,2,4-trichlorobenzene concentrations (see insert on Figure 8.6), the Addendum 1,2,4-trichlorobenzene concentrations have increased in the areas south of the former WWTF Warehouse and within the Encapsulated Lagoon. The increase is most notable at GP-412, where concentrations increased from 2,600 μg/L to 5,300 μg/L, and at MW-33-S, where concentrations went from non-detect during the SRFI to a concentration of 1,700 μg/L for the Addendum investigation. A decrease in concentration was observed to the east of the Site at MW-4, which had a concentration of 280 μg/L for the SRFI investigation and an Addendum concentration of 8.2 μg/L.

Trichloroethene

As shown on Figure 8.7, trichloroethene was detected at only one location (MW-10-14) at a concentration exceeding the groundwater screening criteria. Trichloroethene was detected at MW-10-14 at 480 μg/L, which exceeds the GW-2 criterion of 30 μg/L, but is below the GW-3 criterion of 5,000 μg/L. MW-10-14 is located south and downgradient of the former H Building and Weld Shop area.

The trichloroethene concentrations in the Addendum samples are consistent with the SRFI concentrations (see insert on Figure 8.7). The only notable difference is the increase in trichloroethene concentrations at MW-10-14, which increased from 260 μg/L to 480 μg/L.

PCBs

As shown on Figure 8.8, PCBs were not detected in any of the Addendum samples at concentrations that exceed the GW-1, GW-2, or GW-3 screening criteria. These results are consistent with the SRFI results.

8.2 DEEP OVERBURDEN/WEATHERED BEDROCK

Figures 8.9 through 8.16 present chemical concentration contour plans for the deep overburden/weathered bedrock groundwater for arsenic, lead, mercury, chlorobenzene, nitrobenzene, 1,2,4-trichlorobenzene, trichloroethene, and PCBs, respectively. These parameters were selected as generally most widespread and at the highest concentrations of primary Site-related parameters. The data on the figures are from the Addendum sampling in 2007 to 2009 where each value presented in μg/L is the most recent result for any single location. Superimposed on Figures 8.9 to 8.16 are the corresponding figures from the SRFI that presented the data from 2003 to 2006 where each point was the most recent result for that time period for any single location.

Arsenic

The results shown on Figure 8.9 indicate that the highest concentrations of arsenic are at wells MW-32-I, MW-40-I, and MW-34-I. However, only the reported concentration of arsenic at well MW-34-I exceeded the corresponding screening criterion. Well MW-34-I is located in the MYTA, and the arsenic concentration was reported to be 26.8 μg/L, which is above the GW-1 criterion of 10 μg/L. Well MW-32-I is located in AOC3, just south of the PPA. The concentration of arsenic reported at this well was 128 μg/L, which is less than the GW-3 screening criterion of 900 μg/L.

The SRFI arsenic concentrations (see insert on Figure 8.9) are consistent with the Addendum arsenic concentrations, with the exception that the Addendum arsenic concentration at MW-34-I located in the MYTA exceeded the GW-1 criterion of 10 μg/L, whereas the concentration reported in the SRFI was below the GW-1 criterion.

Lead

The Addendum analytical results for lead are shown on Figure 8.10. Concentrations of lead were reported as non-detect, with a few exceptions. Lead was detected at very low concentrations at MW-12-I (2.0 μg/L) and at MW-28-I (1.6 μg/L). Well MW-28-I is

located in the MYTA, but the lead concentration of 1.6J μg/L is below the GW-3 criterion of 10 μg/L and the GW-1 criterion of 15 μg/L.

The Addendum lead concentrations are consistent with the SRFI lead concentrations (see insert on Figure 8.10) ; however, it should be noted that wells GP-414D, GP-418D, and GP-419D could not be located for the Addendum investigation. For the SRFI, the highest concentration of lead was detected at GP-418D at 385 μg/L, which exceeded the GW-3 criterion of 10 μg/L.

Mercury

The Addendum analytical results for mercury are shown on Figure 8.11. Concentrations of mercury were reported as non-detect, with one exception. Mercury was detected at a very low concentration of 0.22 μg/L at well MW-34-I, which is well below the GW-1 and GW-3 criteria of 2 μg/L and 20 μg/L, respectively.

The Addendum mercury concentrations (see insert on Figure 8.11) are generally consistent with the SRFI results.

Chlorobenzene

The Addendum analytical results for chlorobenzene are shown on Figure 8.12. The iso-concentration contours show that chlorobenzene is predominantly present from the area south of the Former WWTF Warehouse, across the Encapsulated Lagoon area to the Former Service Station Area, and to the off-Site area just north of Muddy Cove. Within this area, there were five wells with concentrations of chlorobenzene that ranged from 380 μg/L at MW-40-I to 19,000 μg/L at MW-12-I. The concentrations at these five wells exceeded both GW-1 and GW-3 criteria of 100 μg/L and 1,000 μg/L, respectively. Two of these wells (MW-34-I and MW-28-I) are in the MYTA.

Elevated concentrations of chlorobenzene were also detected at MW-37-I (390 μg/L) located north of the former MP Building and at MW-3-42 (4,000 μg/L) located south of the former MP Building.

In comparison to the chlorobenzene concentrations presented in the SRFI Report (see insert on Figure 8.12), the Addendum concentrations have decreased at wells MW-28-I (4,700 μg/L to 1,500 μg/L), MW-38-I (190 μg/L to 0.25/0.27 μg/L), MW-40-I (1,700 μg/L to 380 μg/L), MW-32-I (1,600 μg/L to 640 μg/L), and MW-39-I (250 μg/L to 8.7 μg/L).

Nitrobenzene

The Addendum analytical results for nitrobenzene are shown on Figure 8.13. Nitrobenzene was detected in six of the monitoring wells and ranged in concentration from 2.7 μg/L at MW-3-42 to 1,100 μg/L at MW-12-I. The nitrobenzene concentration exceeded the calculated GW-1 criterion of 3.9 μg/L at four wells, including MW-37-I (14 μg/L), MW-12-I (1,100 μg/L), MW-34-I (430 μg/L), and MW-28-I (35 μg/L). Only wells MW-34-I and MW28-I are within the MYTA. All nitrobenzene concentrations were below the calculated GW-3 criterion of 5,500 μg/L.

In comparison to the nitrobenzene concentrations reported in the SRFI Report (see insert on Figure 8.13), the Addendum concentrations have shown a significant decrease at several well locations. The nitrobenzene concentrations decreased east of the Encapsulated Lagoon at MW-34-I (32,000 μg/L to 430 μg/L) and off Site at MW-28-I (2,800 μg/L to 35 μg/L). Notable decreases in concentration were also observed north of the Former MP Building at MW-37-I (1,900 μg/L to 14 μg/L), and north of the Pond at MW-24-I (20 μg/L to non-detect at 0.19 μg/L).

1,2,4-Trichlorobenzene

The Addendum analytical results for 1,2,4-trichlorobenzene are shown on Figure 8.14. 1,2,4-Trichlorobenzene was detected at eight wells. All detected concentrations were below the GW-3 screening criterion of 50,000 μg/L. It is to be noted that although 1,2,4-trichlorobenzene was not detected at wells MW-12-I and MW-34-I, the detection limits were relatively high, thus allowing a conservatively drawn 70 μg/L contour (corresponding to the GW-1 criterion) through the Encapsulated Lagoon area, as shown on Figure 8.14.

In comparison to the 1,2,4-trichlorobenzene concentrations reported in the SRFI Report (see insert on Figure 8.14), for the Addendum a significant decrease was noted at wells MW-34-I (620 μg/L to non-detect at 140 μg/L), MW-28-I (260 μg/L to 35 μg/L), and at well MW-37-I (670 μg/L to 61 μg/L).

Trichloroethene

The Addendum analytical results for trichloroethene are shown on Figure 8.15. Trichloroethene was not detected at any of the deep overburden/weathered bedrock monitoring wells for the Addendum investigation.

The lack of detections is generally consistent with the results presented in the SRFI Report (see insert on Figure 8.15) where trichloroethene was detected at only one location (MW-24-I) at a low concentration of 0.27 μg/L.

PCBs

The Addendum analytical results for total PCBs are shown on Figure 8.16. Total PCBs were only detected at wells MW-32-I (0.102 μg/L) and at MW-3-I (1.3 μg/L). Both concentrations are well below the GW-3 screening criterion of 10 μg/L.

The Addendum results are consistent with the results presented in the SRFI Report (see insert on Figure 8.16).

8.3 BEDROCK

Figures 8.17 through 8.24 present chemical concentration contour plans for the overburden groundwater for arsenic, lead, mercury, chlorobenzene, nitrobenzene, 1,2,4-trichlorobenzene, trichloroethene, and PCBs, respectively. The Addendum data on the figures are from 2007 to 2009 where each point is the most recent result for any single location. Superimposed on Figures 8.17 to 8.24 are the corresponding figures from the SRFI that presented the data from 2003 to 2006 where each point was the most recent result for that time period for any single location.

Arsenic

The results shown on Figure 8.17 indicate that the concentrations of arsenic in the bedrock wells are all well below the GW-3 screening criterion of 900 μg/L. These results are consistent with the arsenic results for the SRFI (see insert on Figure 8.17).

Lead

The results shown on Figure 8.18 indicate that the concentrations of lead in the bedrock wells are all below the GW-3 screening criterion of 10 μg/L. These results are consistent with the lead results for the SRFI (see insert on Figure 8.18) except at well MW-20-40. Lead was reported at a concentration of 16.2 μg/L in the SRFI at well MW-20-40 which is slightly above the GW-3 screening criterion. Well MW-20-40 is located off Site and potentially downgradient of the Encapsulated Lagoon and the Former Service Station Area.

Mercury

The Addendum analytical results for mercury are shown on Figure 8.19. The results shown on Figure 8.18 indicate that the concentrations of mercury in the bedrock wells are all well below the GW-3 screening criterion of 20 μg/L. These results are consistent with the mercury results for the SRFI (see insert on Figure 8.19)

Chlorobenzene

The Addendum analytical results for chlorobenzene are shown on Figure 8.120. The highest concentrations were detected at wells MW-15R-D (5,500 μg/L), MW-6-75 (9,600 μg/L), and at MW-5-58 (5,700 μg/L), which are located north of the Former MP Building. The chlorobenzene concentrations at all three of these wells exceeded the GW-3 screening criterion of 1,000 μg/L.

For the SRFI, the GW-3 criterion was exceeded only at wells MW-15R-D and MW-6-75 (see insert on Figure 8.2). Also, chlorobenzene concentrations at MW-28-D increased slightly from 130 μg/L for the SRFI to 630 μg/L for the Addendum. At well MW-17-69 at the southern end of the Former Service Station Area and east of the Encapsulated Lagoon, the concentration of chlorobenzene increased from 0.39 μg/L for the SRFI to 41 μg/L for the Addendum.

Nitrobenzene

The Addendum analytical results for nitrobenzene are shown on Figure 8.21. The highest concentration of nitrobenzene was found at well MW-6-75, at 480 μg/L, which is less than the calculated GW-3 criterion of 5,500 μg/L. Nitrobenzene was only detected at two other wells: 16 μg/L at MW-15R-D and 45 μg/L at MW-28-D. The nitrobenzene concentrations for the Addendum are generally less than or equal to the results for the SRFI (see insert on Figure 8.21) except for well MW-28-D which experienced a slight increase from 20 μg/L for the SRFI to 45 μg/L for the Addendum.

1,2,4-Trichlorobenzene

The Addendum analytical results for 1,2,4-trichlorobenzene are shown on Figure 8.22. The highest concentrations of 1,2,4-trichlorobenzene were found at wells MW-6-75 (6,300 μg/L) and MW-15R-D (6,300 μg/L) located north of the former MP Building. The 1,2,4-trichlorobenzene concentrations at both of these wells are well below the GW-3 criterion of 50,000 μg/L.

The Addendum 1,2,4-trichlorobenzene concentrations are generally equal to or less than the SRFI concentrations (see insert on Figure 8.22) with the exception of well MW-6-75 where the concentration of 1,2,4-trichlorobenzene increased from 1,000 μg/L to 6,300 μg/L.

Trichloroethene

The Addendum analytical results for trichloroethene are shown on Figure 8.23. Trichloroethene was not detected at any of the wells for the Addendum investigation. For the SRFI (see insert on Figure 8.23), trichloroethene was detected at low concentrations at wells MW-5-58 and MW-27-D.

PCBs

The Addendum analytical results for total PCBs are shown on Figure 8.24. Total PCBs were detected at low concentrations at four wells: MW-1-102, MW-6-75, MW-25-D, and MW-16-53. The concentrations ranged from 0.0084 μg/L to 0.28 μg/L which are significantly lower than the GW-3 criterion of 10 μg/L. For the SRFI (see insert on Figure 8.24), PCBs were detected at six bedrock wells, all at concentrations below the GW-3 criterion of 10 μg/L.

9.0 TAUNTON RIVER SEDIMENT SAMPLES

Sediment samples were collected from the Taunton River in the vicinity of Muddy Cove in 1997 (SD-33 to SD-38) and in 1999 (SD-09 to SD-14). The sampling locations are shown on Figure 8.25. Sediment samples were also collected from three reference locations (SED-132 to SED-134) along the Taunton River in 2002. The reference sampling locations are presented on Figure 8.26.

The analytical results for the Taunton River sediment samples are presented in Table 3.7. Based upon the analytical results presented in the SRFI for sediment samples collected in Muddy Cove, the primary Site-related chemical constituents in the sediment samples were chlorobenzene, mercury, and PCBs. The results for chlorobenzene, mercury, and PCBs in the Taunton River sediment samples are presented on Figures 8.25 and 8.26. The following table summarizes the range of concentrations for the Muddy Cove sediment samples, the Taunton River sediment samples and the Taunton River reference samples.

Compound	*Muddy Cove (mg/kg)*	*Taunton River (mg/kg)*	*Taunton River Reference (mg/kg)*
Chlorobenzene	ND-100	0.004 - 0.42	not analyzed
Mercury	0.081 - 245.66	0.485 - 12.344	0.832 - 2.76
PCBs	ND-30	0.31 - 2.5	0.12 - 0.39

The results indicate a significant decrease in concentrations between the Muddy Cove samples and the Taunton River samples. However, the concentrations in the samples collected from the Taunton River in the vicinity of Muddy Cove are higher than in the reference samples.

10.0 CONCEPTUAL SITE MODEL

Section 9.0 of the SRFI Report presents the Conceptual Site Model (CSM) based upon the results of the SRFI. The additional data collected for the SRFI Addendum is for the most part consistent with the CSM presented in the SRFI report. The following paragraphs present revisions to the CSM based upon results for the SRFI Addendum.

10.1 SOURCES OF CONTAMINATION

Encapsulated Lagoon

The Encapsulated Lagoon is identified in the CSM as a source for groundwater contamination. In the CSM, the Encapsulated Lagoon is also identified as a potential source of contamination to the surface water ponded on the Lagoon and drainage of the surface water may ultimately contribute to surface water or sediment contamination in the Brook or Muddy Cove. Sampling data collected for the SRFI Addendum indicate that the contribution due to this pathway would be very minor. Surface water samples collected in 2009 from the Encapsulated Lagoon area had concentrations of manganese, arsenic, iron, lead, and bis (2-ethylhexyl) phthalate above the screening criteria. However, the sample of the surface water discharging from the Encapsulated Lagoon did not have parameter concentrations above the screening criteria.

10.2 AFFECTED MEDIA

Overburden Groundwater

Groundwater sampling results presented in the SRFI indicated that COPC concentrations in the overburden groundwater south of Muddy Cove Brook were below the screening criteria. For the SRFI Addendum, a new overburden well (MW-37-S) was installed north of the former MP Building. The sample collected from well MW-37-S in 2009 had concentrations of chlorobenzene and nitrobenzene above the GW-2 and GW-3 screening criteria.

The Addendum concentrations of chlorobenzene and nitrobenzene in the overburden off-Site wells (MW-4, MW-27-S, MW-28-S, and TW-1) and well MW-12-19 located between the Encapsulated Lagoon and Muddy Cove Brook were all significantly lower than the concentrations detected at these locations during the SRFI. Reported

concentrations of chlorobenzene and nitrobenzene at all of these locations in the Addendum samples were below GW-3 criteria.

Deep Overburden/Weathered Bedrock Groundwater

The Addendum concentrations of chlorobenzene in the deep overburden/weathered bedrock off-Site wells (MW-28-I, MW-38-I and MW-39-I) were all significantly lower than the concentrations detected at these locations during the SRFI. Similarly, the Addendum concentrations of nitrobenzene in the deep overburden/weathered bedrock well MW-34-I located east of the Encapsulated Lagoon, MW-37-I located north of the former MP Building and off-Site well MW-28-I were significantly lower than the nitrobenzene concentrations detected at these locations during the SRFI.

Bedrock Groundwater

Addendum lead concentrations at well MW-20-40 located on the east side of Pleasant Street and potentially downgradient of the Site were below the GW-3 criterion whereas the SRFI lead concentration at this location was slightly above the GW-3 criterion.

Addendum chlorobenzene concentrations at well MW-5-58 located east of the former MP Building were higher than the concentrations reported in the SRFI. Chlorobenzene concentrations at well MW-5-58 are similar to the levels detected at bedrock wells MW-15R-D and MW-6-75, also located north of the former MP Building.

Taunton River Sediments

The concentrations of chlorobenzene, mercury, and total PCBs in the sediment samples collected from the Taunton River in the vicinity of Muddy Cove are higher than in the three reference samples collected from other locations along the Taunton River. However, the concentrations of these parameters in the Taunton River sediment samples in the vicinity of Muddy Cove are significantly lower than the concentrations of these parameters in the Muddy Cove sediment samples.

11.0 SUMMARY

The SRFI Addendum activities were conducted in accordance with the USEPA approved scope of work dated March 13, 2009. The scope of work included:

- Installation of two new monitoring wells MW-37-S and MW-31R-S
- Collection and analyses of groundwater samples from selected monitoring wells including the two new monitoring wells
- Collection and analyses of four surface water samples from the Encapsulated Lagoon
- Collection and analyses of eight surface soil samples from the Encapsulated Lagoon and four surface soil samples from the Former Service Station Area
- Contact City of Dighton, Water Department and obtain any records of private wells in the neighborhoods of Muddy Cove Land and Water Street

The results of the SRFI Addendum activities are summarized below:

- Arsenic, lead and benzo(a)pyrene were detected at concentrations above the screening levels in surface soil samples collected from the Former Service Station Area
- PCBs, arsenic, benzo(a)pyrene, chlorobenzene and 1,2,3-trichlorobenzene were detected at concentrations above the screening levels in surface soil samples collected from Encapsulated Lagoon
- Surface water samples collected from the Encapsulated Lagoon area had concentrations of manganese, arsenic, iron, lead, and bis(2-ethylhexyl)phthalate above the screening criteria. However, the sample of the surface water discharging from the Encapsulated Lagoon did not have parameter concentrations above the screening criteria
- Metals results in the groundwater sample collected from replacement well MW-31R-S were below the screening levels confirming that the samples collected previously from well MW-31-S for the SRFI, that had high turbidity and high metals concentrations, were not representative of the groundwater quality at this location
- The groundwater sample collected from new well MW-37-S located north of the former MP Building had concentrations of chlorobenzene and nitrobenzene above the GW-2 and GW-3 screening criteria
- The groundwater results for samples collected since the SRFI are generally consistent with the SRFI results with the following notable exceptions:

- Concentrations of chlorobenzene and nitrobenzene in the overburden off-Site wells (MW-4, MW-27-S, MW-28-S, and TW-1) and well MW-12-19 located between the Encapsulated Lagoon and Muddy Cove Brook were all significantly lower than the concentrations detected at these locations during the SRFI
- Concentrations of chlorobenzene in the deep overburden/weathered bedrock off-Site wells (MW-28-I, MW-38-I, and MW-39-I) were all significantly lower than the concentrations detected at these locations during the SRFI
- Concentrations of nitrobenzene in the deep overburden/weathered bedrock well MW-34-I located east of the Encapsulated Lagoon, MW-37-I located north of the former MP Building and off-Site well MW-28-I were significantly lower than the nitrobenzene concentrations detected at these locations during the SRFI
- Lead concentrations at well bedrock well MW-20-40 located on the east side of Pleasant Street and potentially downgradient of the Site were below the GW-3 criterion whereas the SRFI lead concentration at this location was slightly above the GW-3 criterion
- Chlorobenzene concentrations at bedrock well MW-5-58 located east of the former MP Building were higher than the concentrations reported in the SRFI

- The concentrations of chlorobenzene, mercury, and total PCBs in the sediment samples collected from the Taunton River in the vicinity of Muddy Cove are higher than in the three reference samples collected from other locations along the Taunton River. However, the concentrations of these parameters in the Taunton River sediment samples in the vicinity of Muddy Cove are significantly lower than the concentrations of these parameters in the Muddy Cove sediment samples
- Officials at the Dighton Town Hall and the Town Building Inspector were contacted on October 8, 2009 and October 14, 2009, respectively, and they indicated that they had no records of private wells located along Water Street and Muddy Cove Lane

The SRFI Addendum results have been used to further define the nature and extent of contamination at the Site. The surface soil sampling results have been used to further define the conditions in the Encapsulated Lagoon and the Former Service Station Area. Surface water results for samples collected from the Encapsulated Lagoon have been used to define the nature and extent of contamination in this medium and also to characterize the discharge from this area. An additional round of groundwater samples from existing monitoring wells, including wells that were only sampled once prior to the SRFI, have been used to confirm the extent of impacts to the groundwater and to identify areas where chemical concentrations appear to be increasing or decreasing. The data for monitoring well MW-31R-S confirmed that the previous high concentrations of metals in well MW-31-S were due to the high turbidity and sediments in the samples.

The data for new monitoring well MW-37-S were used to further delineate the impacts on the overburden aquifer north of the Former MP Building.

With the completion of the SRFI Addendum, Zeneca believes that the Site is sufficiently characterized and the nature and extent of contamination has been sufficiently delineated that Zeneca can now proceed with completing the Media Cleanup Standards Proposal and the Corrective Measures Study.

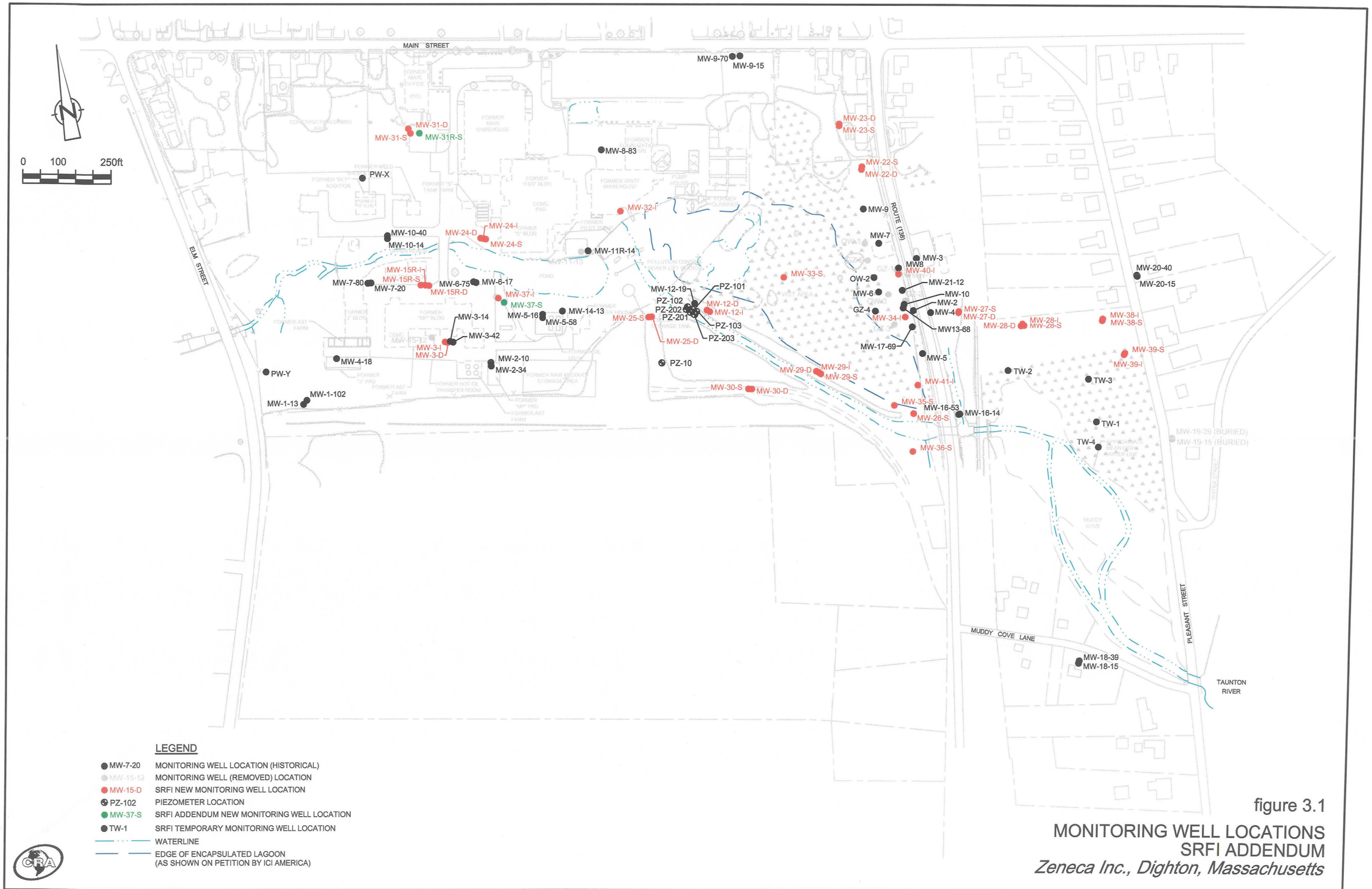
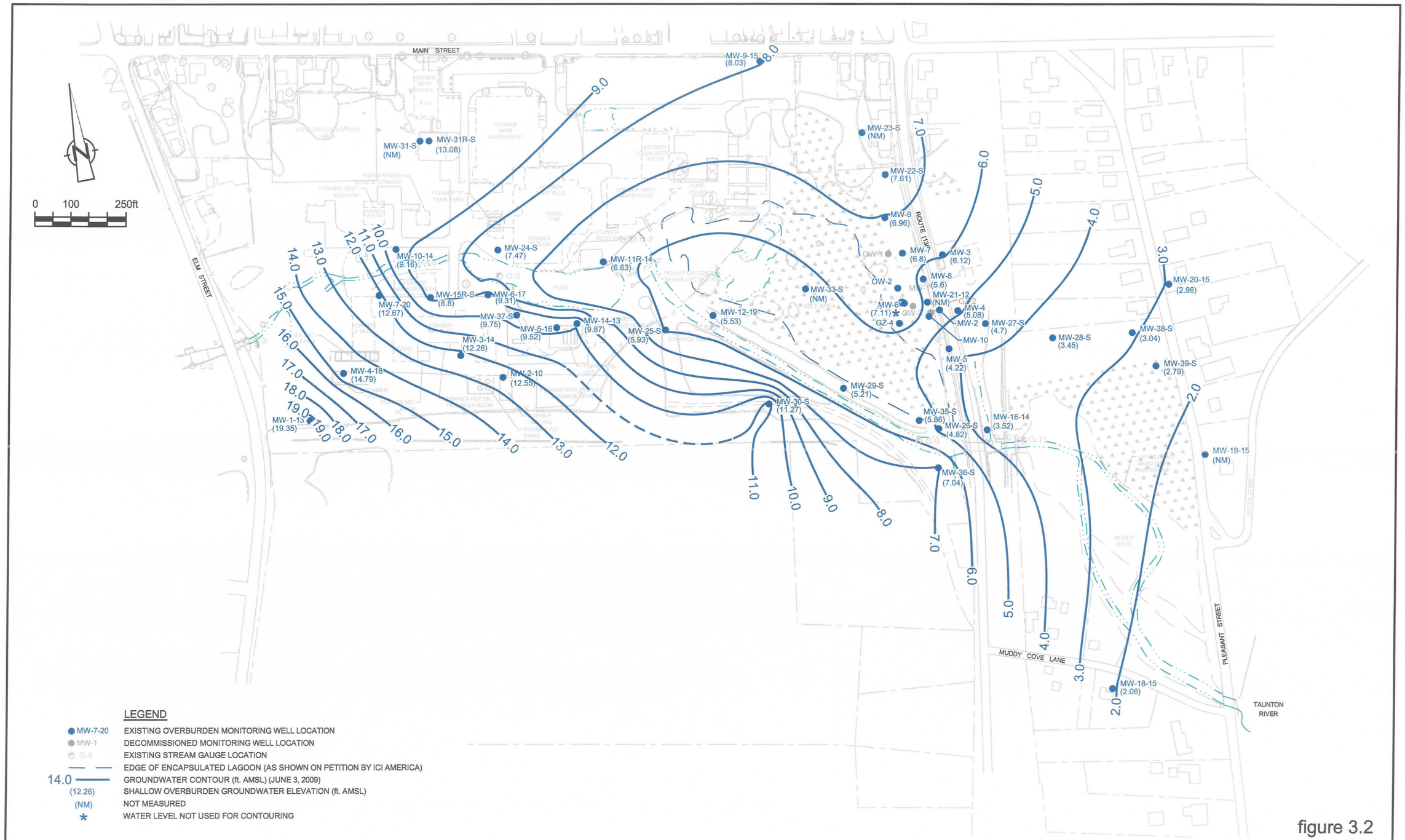


figure 3.1

MONITORING WELL LOCATIONS
SRFI ADDENDUM

Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA027 SEP 23/2010



LEGEND

MW-7-20	EXISTING OVERBURDEN MONITORING WELL LOCATION
MW-1	DECOMMISSIONED MONITORING WELL LOCATION
G-8	EXISTING STREAM GAUGE LOCATION
— —	EDGE OF ENCAPSULATED LAGOON (AS SHOWN ON PETITION BY ICI AMERICA)
14.0	GROUNDWATER CONTOUR (ft. AMSL) (JUNE 3, 2009)
(12.26)	SHALLOW OVERBURDEN GROUNDWATER ELEVATION (ft. AMSL)
(NM)	NOT MEASURED
*	WATER LEVEL NOT USED FOR CONTOURING

figure 3.2

OVERBURDEN PIEZOMETRIC SURFACE - JUNE 3, 2009
SRFI ADDENDUM
Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA028 SEP 23/2010

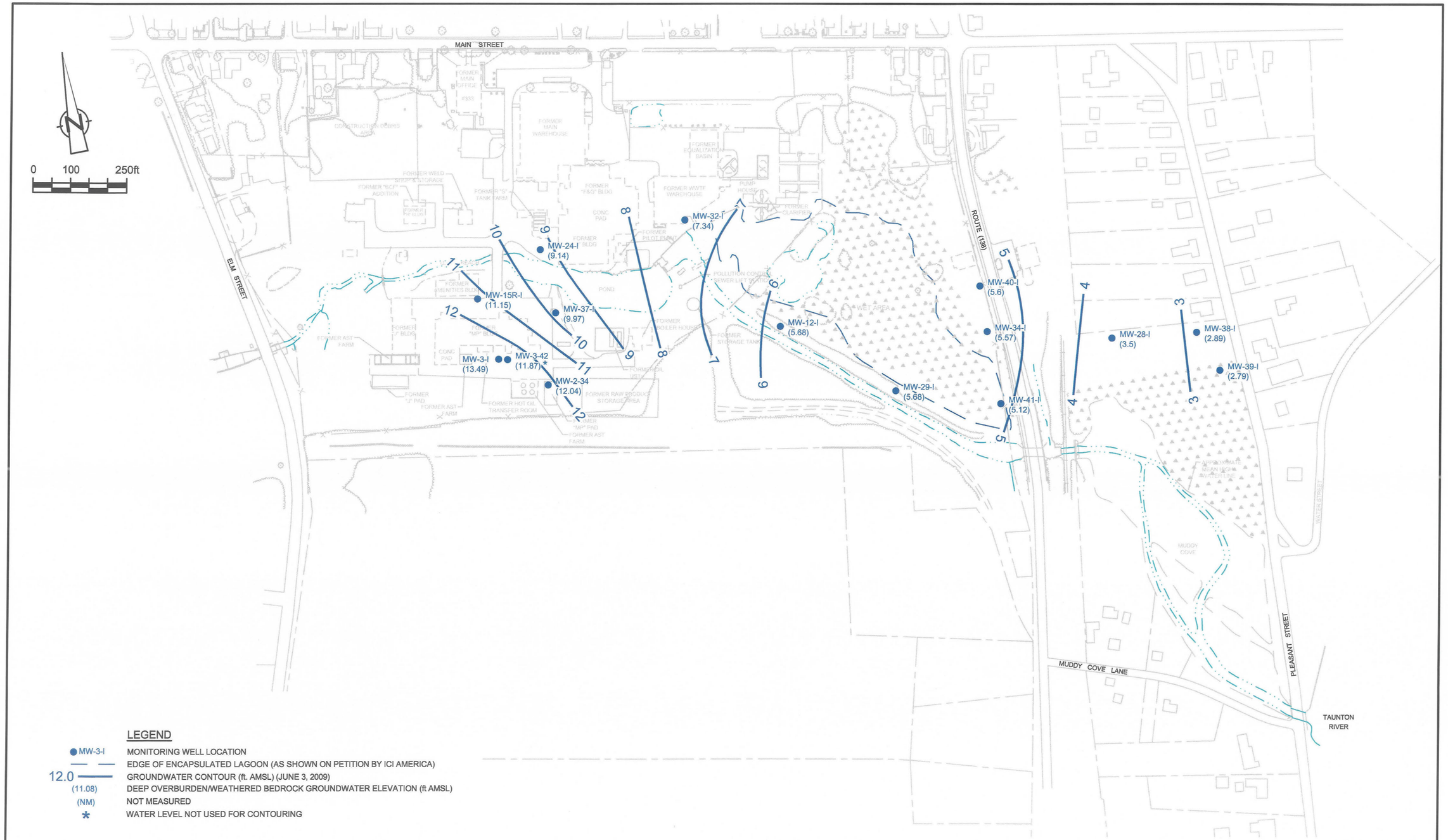
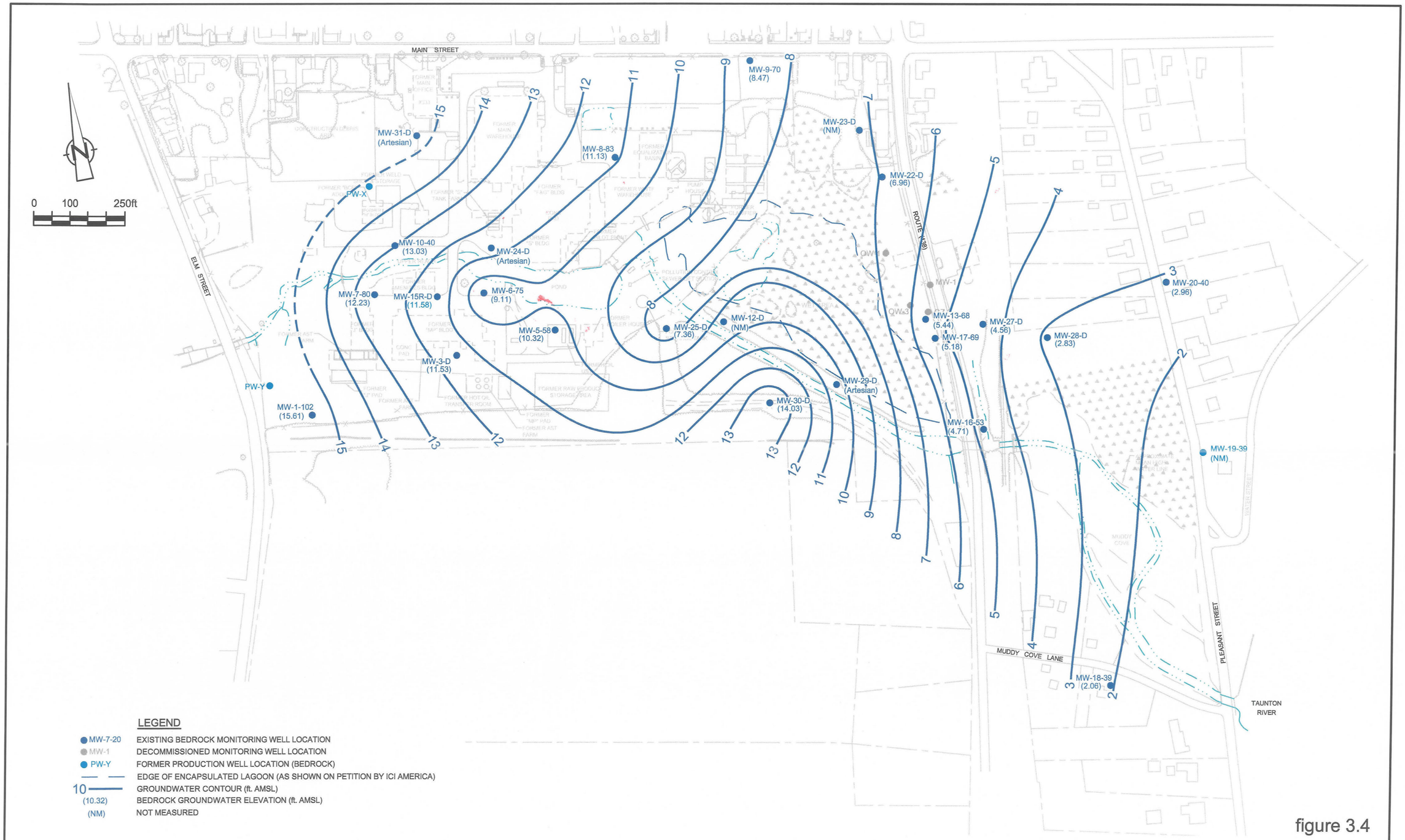


figure 3.3

DEEP OVERBURDEN/WEATHERED BEDROCK PIEZOMETRIC SURFACE - JUNE 3, 2009
SRFI ADDENDUM
Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA029 OCT 05/2010



LEGEND

MW-7-20	EXISTING BEDROCK MONITORING WELL LOCATION
MW-1	DECOMMISSIONED MONITORING WELL LOCATION
PW-Y	FORMER PRODUCTION WELL LOCATION (BEDROCK)
— —	EDGE OF ENCAPSULATED LAGOON (AS SHOWN ON PETITION BY ICI AMERICA)
10	GROUNDWATER CONTOUR (ft. AMSL)
(10.32)	BEDROCK GROUNDWATER ELEVATION (ft. AMSL)
(NM)	NOT MEASURED

figure 3.4

BEDROCK PIEZOMETRIC SURFACE - JUNE 3, 2009
SRFI ADDENDUM
Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA030 SEP 23/2010

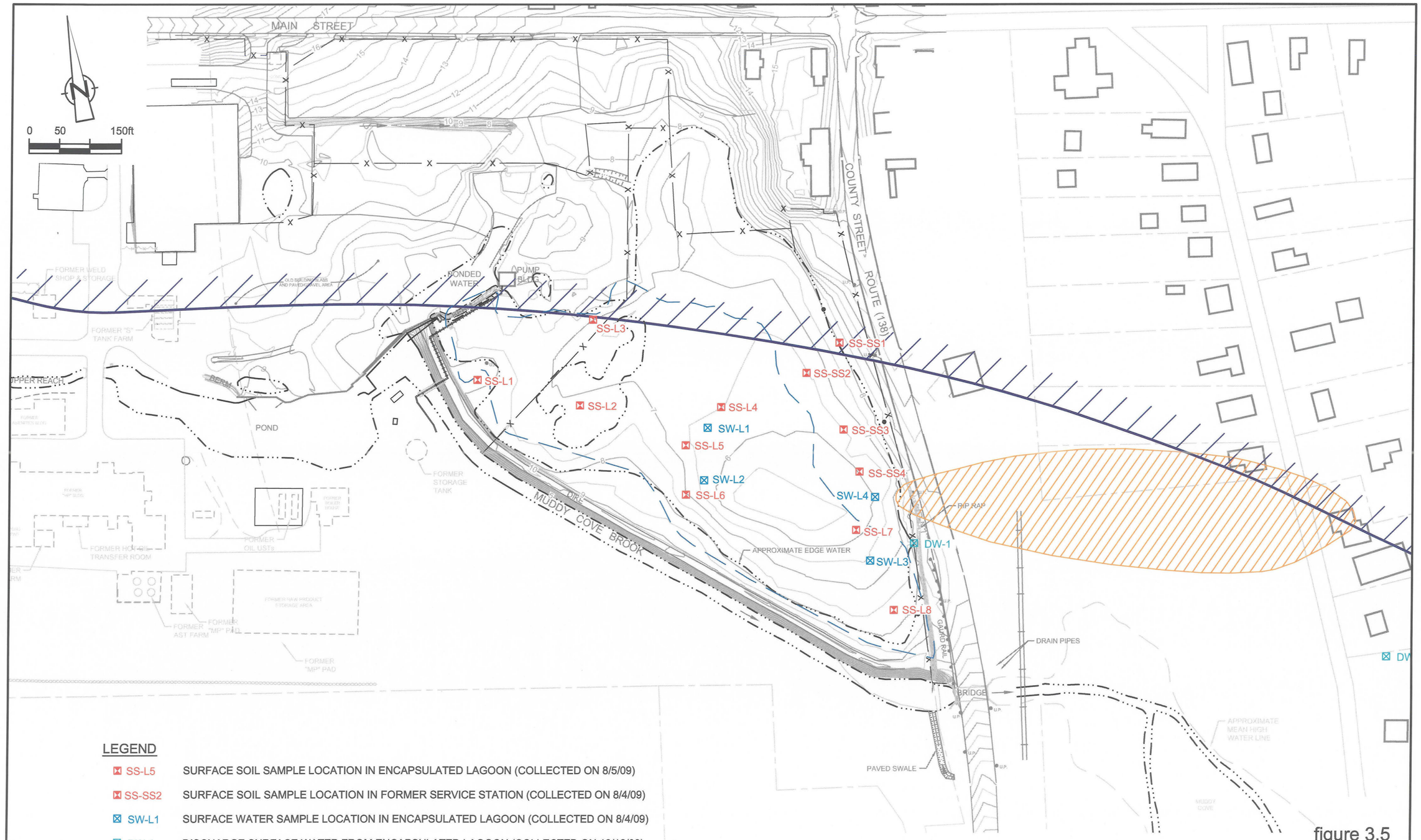


figure 3.5

SURFACE SOIL AND SURFACE WATER SAMPLING LOCATIONS
SRFI ADDENDUM
Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA001 SEP 23/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-1	10
GW-2	NA
GW-3	900

LEGEND

- MW-4-18 — OVERBURDEN MONITORING WELL LOCATION
- GP-406 — PIEZOMETER LOCATION
- 1.4 — ARSENIC CONCENTRATION (µg/L) - MOST RECENT DATA SHOWN FOR EACH LOCATION
  - J = ESTIMATED
  - ND = NOT DETECTED AT ASSOCIATED VALUE
  - U = QUALIFIED AS NOT DETECTED
  - NS = NOT SAMPLED
- 10 — ISOCONCENTRATION CONTOUR - TOTAL ARSENIC (µg/L)
- ESTIMATED EXTENT OF MYTA
- APPROXIMATE BOUNDARY OF MEDIUM YIELD PPA (POTENTIALLY PRODUCTIVE AQUIFER)
- MW-2 — WELL IS DESTROYED

0 100 250ft

SRFI DATA
SOURCE: Table 8.3, SRFI REPORT, AUGUST 2010

figure 8.1

OVERBURDEN TOTAL ARSENIC GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM
Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA002 OCT 05/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-1	15
GW-2	NA
GW-3	10

NA - NOT APPLICABLE

LEGEND

- MW-4-18 — EXISTING OVERBURDEN MONITORING WELL LOCATION
- GP-406 — EXISTING PIEZOMETER LOCATION
- 1.4 — LEAD CONCENTRATION (µg/L) - MOST RECENT DATA SHOWN FOR EACH LOCATION 2007 - 2009
  - J = ESTIMATED
  - ND = NOT DETECTED AT ASSOCIATED VALUE
  - U = QUALIFIED AS NOT DETECTED
  - NS = NOT SAMPLED
- 10 — ISOCONCENTRATION CONTOUR - LEAD (µg/L)
- ESTIMATED EXTENT OF MYTA
- APPROXIMATE BOUNDARY OF MEDIUM YIELD PPA (POTENTIALLY PRODUCTIVE AQUIFER)
- MW-2 — WELL IS DESTROYED

0 100 250ft

SRFI DATA
SOURCE: figure 8.26
OVERBURDEN TOTAL LEAD GROUNDWATER CONCENTRATIONS
SRFI REPORT, AUGUST 2010

figure 8.2

OVERBURDEN TOTAL LEAD GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

Zeneca Inc., Dighton, Massachusetts

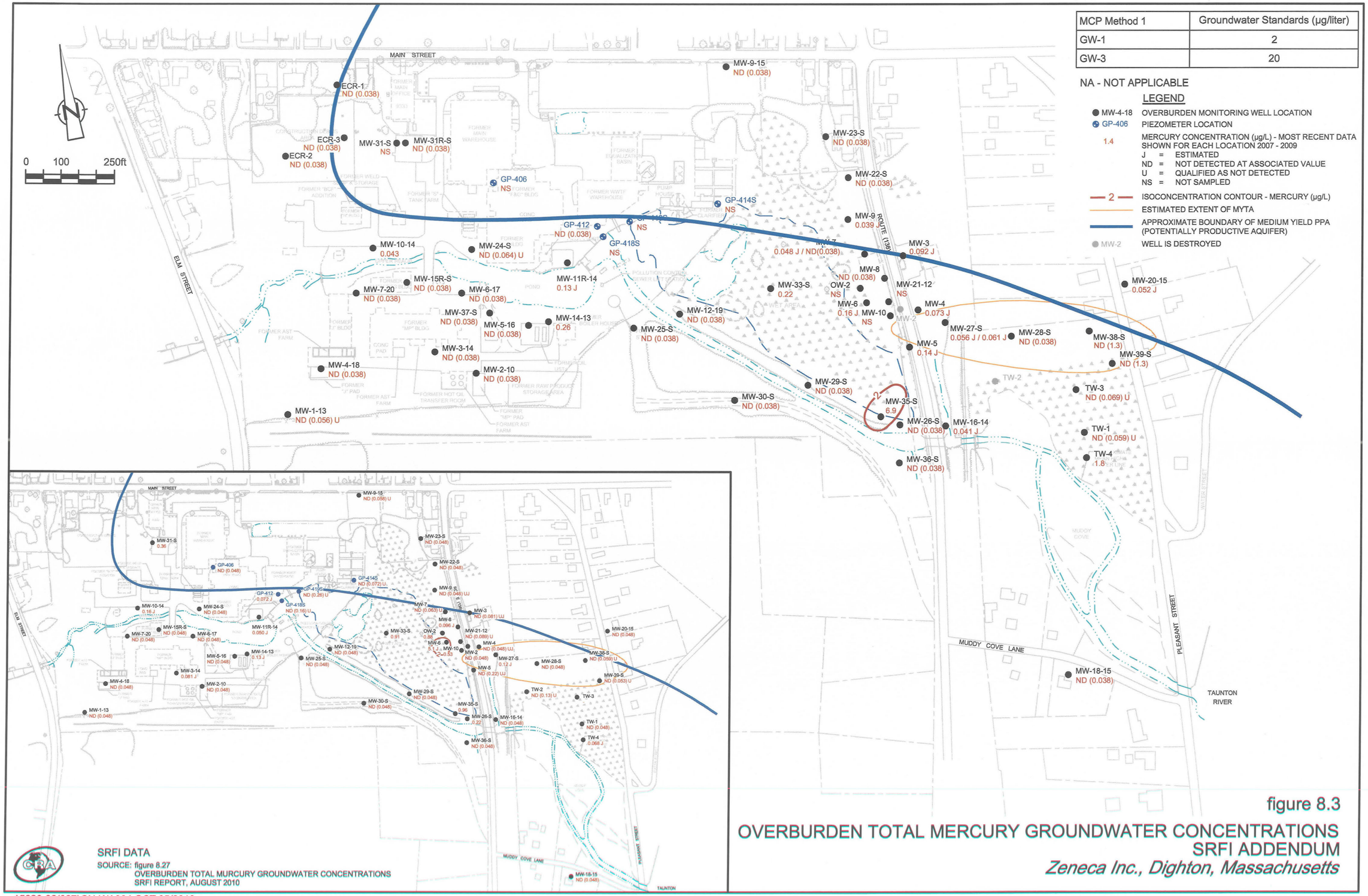
15620-82(027)GN-WA003 OCT 05/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-1	2
GW-3	20

NA - NOT APPLICABLE

LEGEND

- MW-4-18 — OVERBURDEN MONITORING WELL LOCATION
- GP-406 — PIEZOMETER LOCATION
- 1.4 — MERCURY CONCENTRATION (µg/L) - MOST RECENT DATA SHOWN FOR EACH LOCATION 2007 - 2009
  - J = ESTIMATED
  - ND = NOT DETECTED AT ASSOCIATED VALUE
  - U = QUALIFIED AS NOT DETECTED
  - NS = NOT SAMPLED
- 2 — ISOCONCENTRATION CONTOUR - MERCURY (µg/L)
- ESTIMATED EXTENT OF MYTA
- APPROXIMATE BOUNDARY OF MEDIUM YIELD PPA (POTENTIALLY PRODUCTIVE AQUIFER)
- MW-2 — WELL IS DESTROYED



SRFI DATA
SOURCE: figure 8.27
OVERBURDEN TOTAL MURCURY GROUNDWATER CONCENTRATIONS
SRFI REPORT, AUGUST 2010

figure 8.3

OVERBURDEN TOTAL MERCURY GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM
Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA004 OCT 05/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-1	100
GW-2	200
GW-3	1,000

LEGEND

- MW-4-18 — OVERBURDEN MONITORING WELL LOCATION
- GP-406 — PIEZOMETER LOCATION
- 1.4 — CHLOROBENZENE CONCENTRATION (µg/L) - MOST RECENT DATA SHOWN FOR EACH LOCATION 2007 - 2009
  - J = ESTIMATED
  - ND = NOT DETECTED AT ASSOCIATED VALUE
  - NS = NOT SAMPLED
- 100 — ISOCONCENTRATION CONTOUR - CHLOROBENZENE (µg/L)
- ESTIMATED EXTENT OF MYTA
- APPROXIMATE BOUNDARY OF MEDIUM YIELD PPA (POTENTIALLY PRODUCTIVE AQUIFER)
- MW-2 — WELL IS DESTROYED

0 100 250ft

SRFI DATA
SOURCE: figure 8.28
OVERBURDEN CHLOROBENZENE GROUNDWATER CONCENTRATIONS
SRFI REPORT, AUGUST 2010

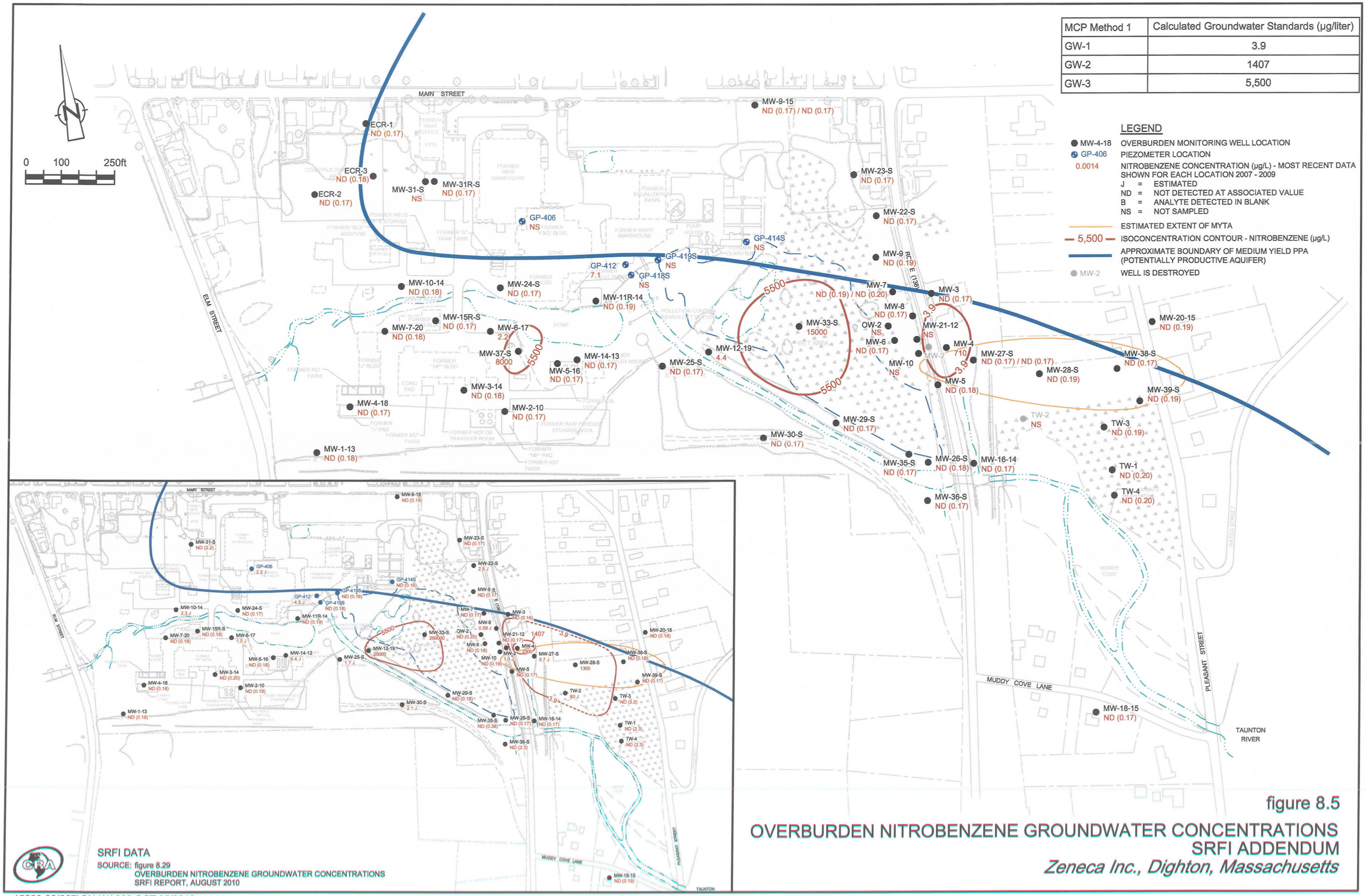
figure 8.4

OVERBURDEN CHLOROBENZENE GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA005 OCT 05/2010

MCP Method 1	Calculated Groundwater Standards (µg/liter)
GW-1	3.9
GW-2	1407
GW-3	5,500



SRFI DATA
SOURCE: figure 8.29
OVERBURDEN NITROBENZENE GROUNDWATER CONCENTRATIONS
SRFI REPORT, AUGUST 2010

figure 8.5

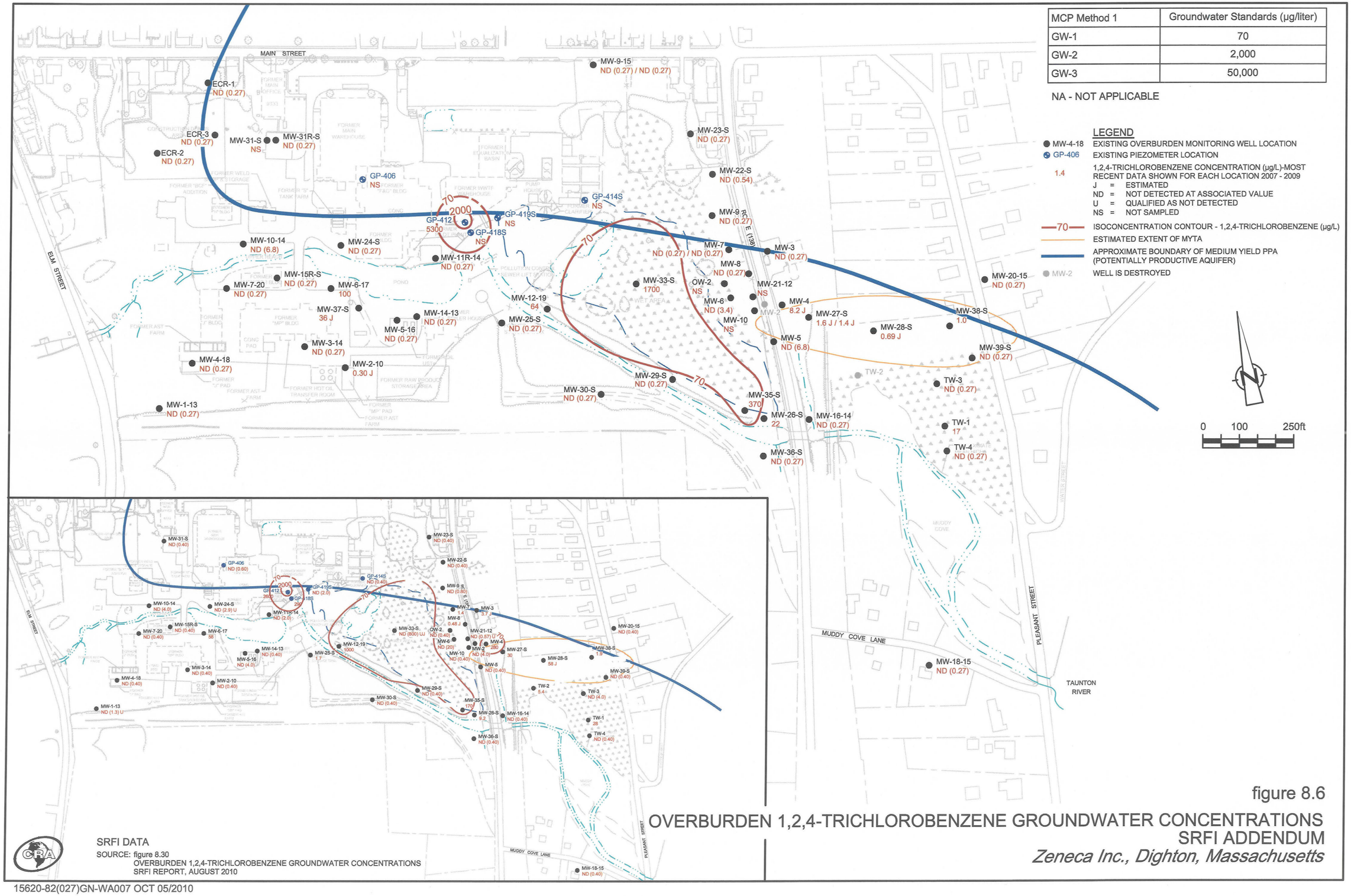
OVERBURDEN NITROBENZENE GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA006 OCT 05/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-1	70
GW-2	2,000
GW-3	50,000

NA - NOT APPLICABLE



SRFI DATA
SOURCE: figure 8.30
OVERBURDEN 1,2,4-TRICHLOROBENZENE GROUNDWATER CONCENTRATIONS
SRFI REPORT, AUGUST 2010

figure 8.6

OVERBURDEN 1,2,4-TRICHLOROBENZENE GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA007 OCT 05/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-1	5
GW-2	30
GW-3	5,000

LEGEND

- MW-4-18 — MONITORING WELL LOCATION
- GP-406 — PIEZOMETER LOCATION
- 1.4 — TRICHLOROETHENE CONCENTRATION (µg/L) - MOST RECENT DATA SHOWN FOR EACH LOCATION 2007 - 2009
  - J = ESTIMATED
  - ND = NOT DETECTED AT ASSOCIATED VALUE
  - B = ANALYTE DETECTED IN BLANK
  - U = QUALIFIED AS NOT DETECTED
  - NS = NOT SAMPLED
- 5 — TRICHLOROETHENE CONCENTRATION CONTOUR (µg/L)
- ESTIMATED EXTENT OF MYTA
- APPROXIMATE BOUNDARY OF MEDIUM YIELD PPA (POTENTIALLY PRODUCTIVE AQUIFER)
- MW-2 — WELL IS DESTROYED

0 100 250ft

SRFI DATA

SOURCE - figure 8.31
OVERBURDEN TRICHLOROETHENE GROUNDWATER CONCENTRATIONS
SFRI REPORT, AUGUST 2010

figure 8.7

OVERBURDEN TRICHLOROETHENE GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA008 OCT 05/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-1	0.5
GW-2	5
GW-3	10

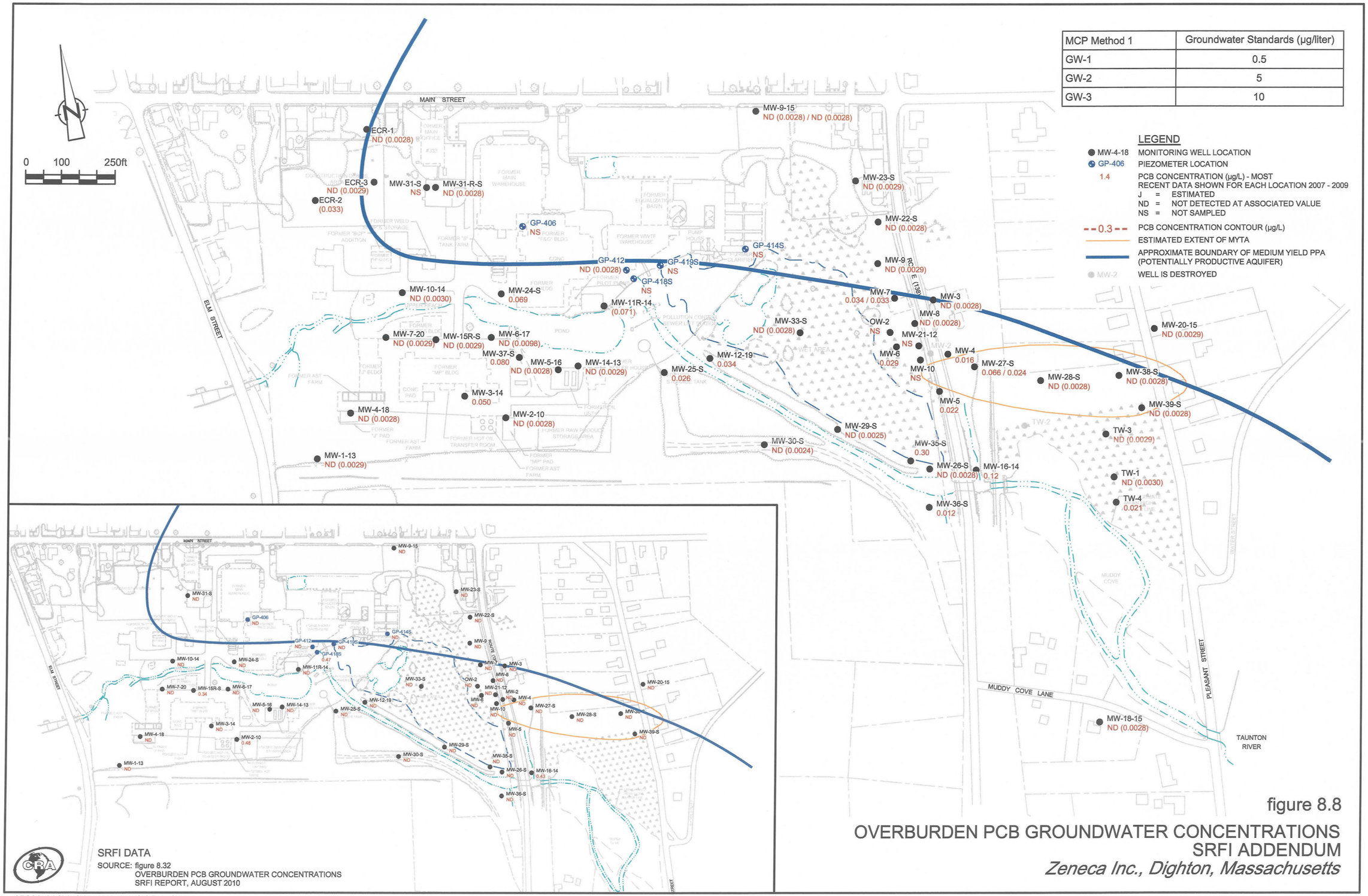


figure 8.8

OVERBURDEN PCB GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM
Zeneca Inc., Dighton, Massachusetts

SRFI DATA
SOURCE: figure 8.32
OVERBURDEN PCB GROUNDWATER CONCENTRATIONS
SRFI REPORT, AUGUST 2010

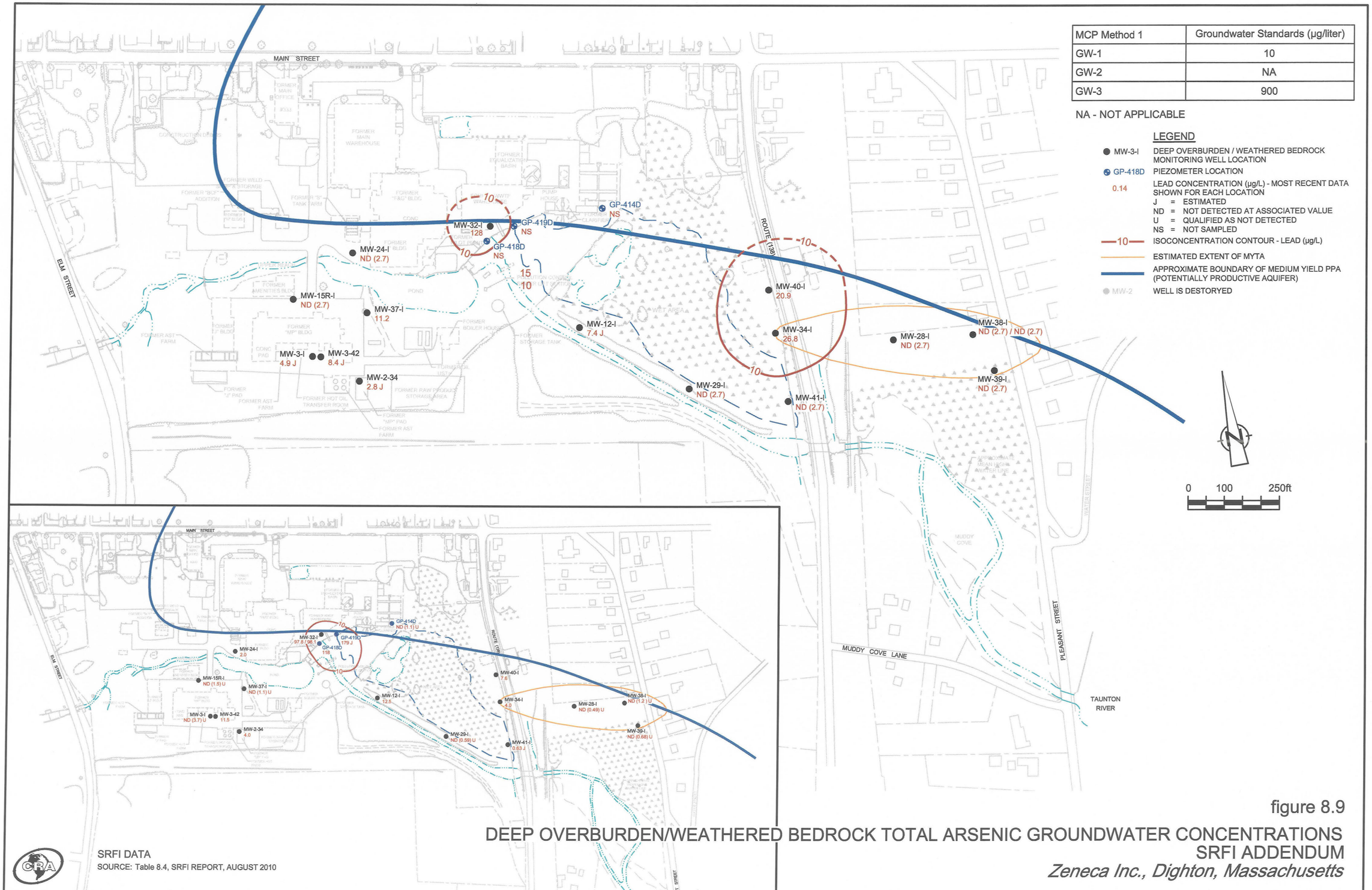
15620-82(027)GN-WA009 OCT 05/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-1	10
GW-2	NA
GW-3	900

NA - NOT APPLICABLE

LEGEND

- MW-3-I — DEEP OVERBURDEN / WEATHERED BEDROCK MONITORING WELL LOCATION
- GP-418D — PIEZOMETER LOCATION
- 0.14 — LEAD CONCENTRATION (µg/L) - MOST RECENT DATA SHOWN FOR EACH LOCATION
  - J = ESTIMATED
  - ND = NOT DETECTED AT ASSOCIATED VALUE
  - U = QUALIFIED AS NOT DETECTED
  - NS = NOT SAMPLED
- 10 — ISOCONCENTRATION CONTOUR - LEAD (µg/L)
- ESTIMATED EXTENT OF MYTA
- APPROXIMATE BOUNDARY OF MEDIUM YIELD PPA (POTENTIALLY PRODUCTIVE AQUIFER)
- MW-2 — WELL IS DESTORYED



SRFI DATA
SOURCE: Table 8.4, SRFI REPORT, AUGUST 2010

figure 8.9

DEEP OVERBURDEN/WEATHERED BEDROCK TOTAL ARSENIC GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM
Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA010 OCT 05/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-1	15
GW-3	10

NA - NOT APPLICABLE

LEGEND

- MW-3-I — DEEP OVERBURDEN / WEATHERED BEDROCK MONITORING WELL LOCATION
- GP-418D — PIEZOMETER LOCATION
- 0.14 — LEAD CONCENTRATION (µg/L) - MOST RECENT DATA SHOWN FOR EACH LOCATION 2007 - 2009
  - J = ESTIMATED
  - ND = NOT DETECTED AT ASSOCIATED VALUE
  - U = QUALIFIED AS NOT DETECTED
  - NS = NOT SAMPLED
- 10 — ISOCONCENTRATION CONTOUR - LEAD (µg/L)
- ESTIMATED EXTENT OF MYTA
- APPROXIMATE BOUNDARY OF MEDIUM YIELD PPA (POTENTIALLY PRODUCTIVE AQUIFER)
- MW-2 — WELL IS DESTROYED

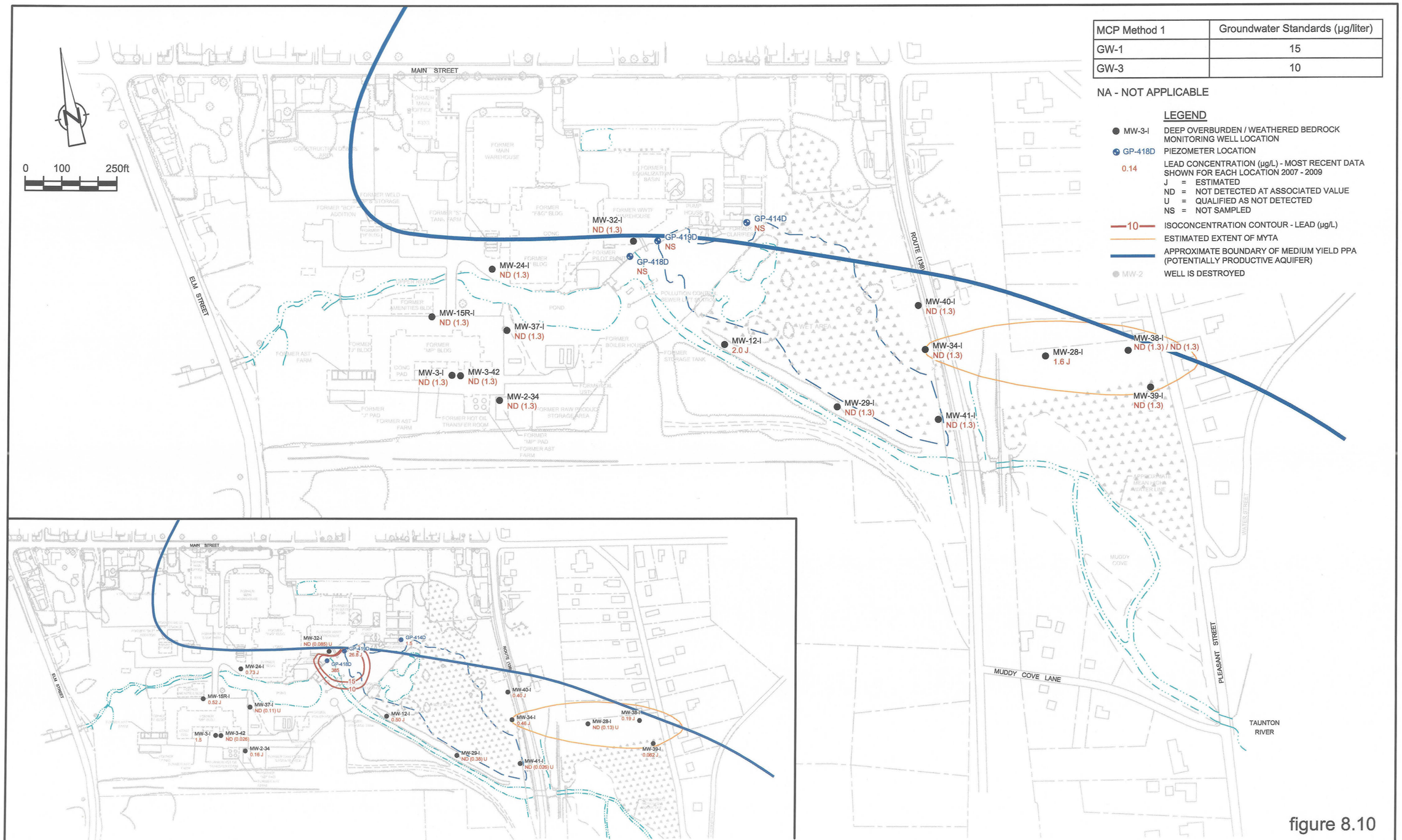


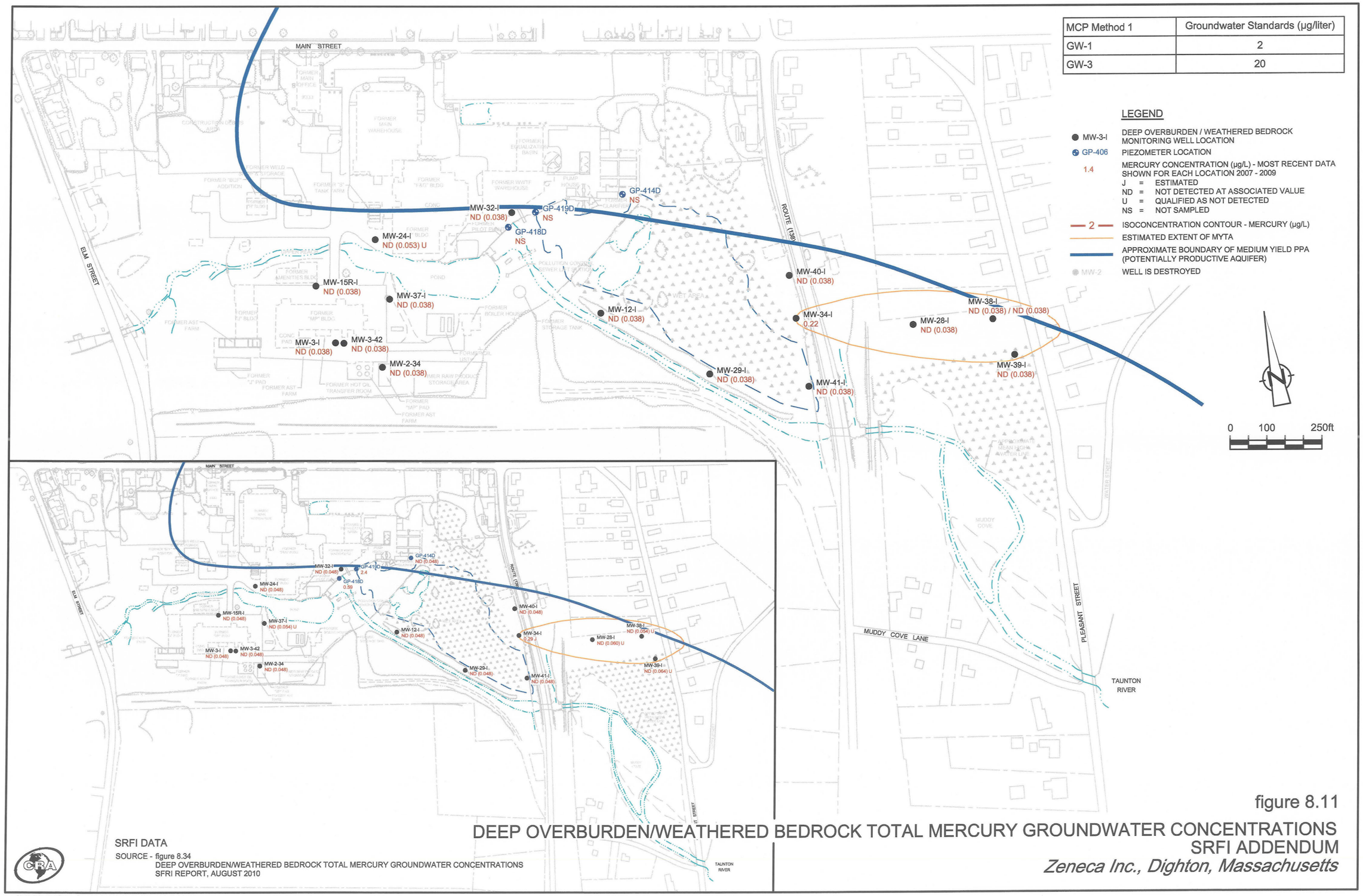
figure 8.10

DEEP OVERBURDEN/WEATHERED BEDROCK TOTAL LEAD GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM
Zeneca Inc., Dighton, Massachusetts

SRFI DATA
SOURCE: figure 8.33
DEEP OVERBURDEN/WEATHERED BEDROCK TOTAL LEAD GROUNDWATER CONCENTRATIONS
SRFI REPORT, AUGUST 2010

15620-82(027)GN-WA011 OCT 05/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-1	2
GW-3	20



SRFI DATA

SOURCE - figure 8.34
DEEP OVERBURDEN/WEATHERED BEDROCK TOTAL MERCURY GROUNDWATER CONCENTRATIONS
SFRI REPORT, AUGUST 2010

figure 8.11

DEEP OVERBURDEN/WEATHERED BEDROCK TOTAL MERCURY GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

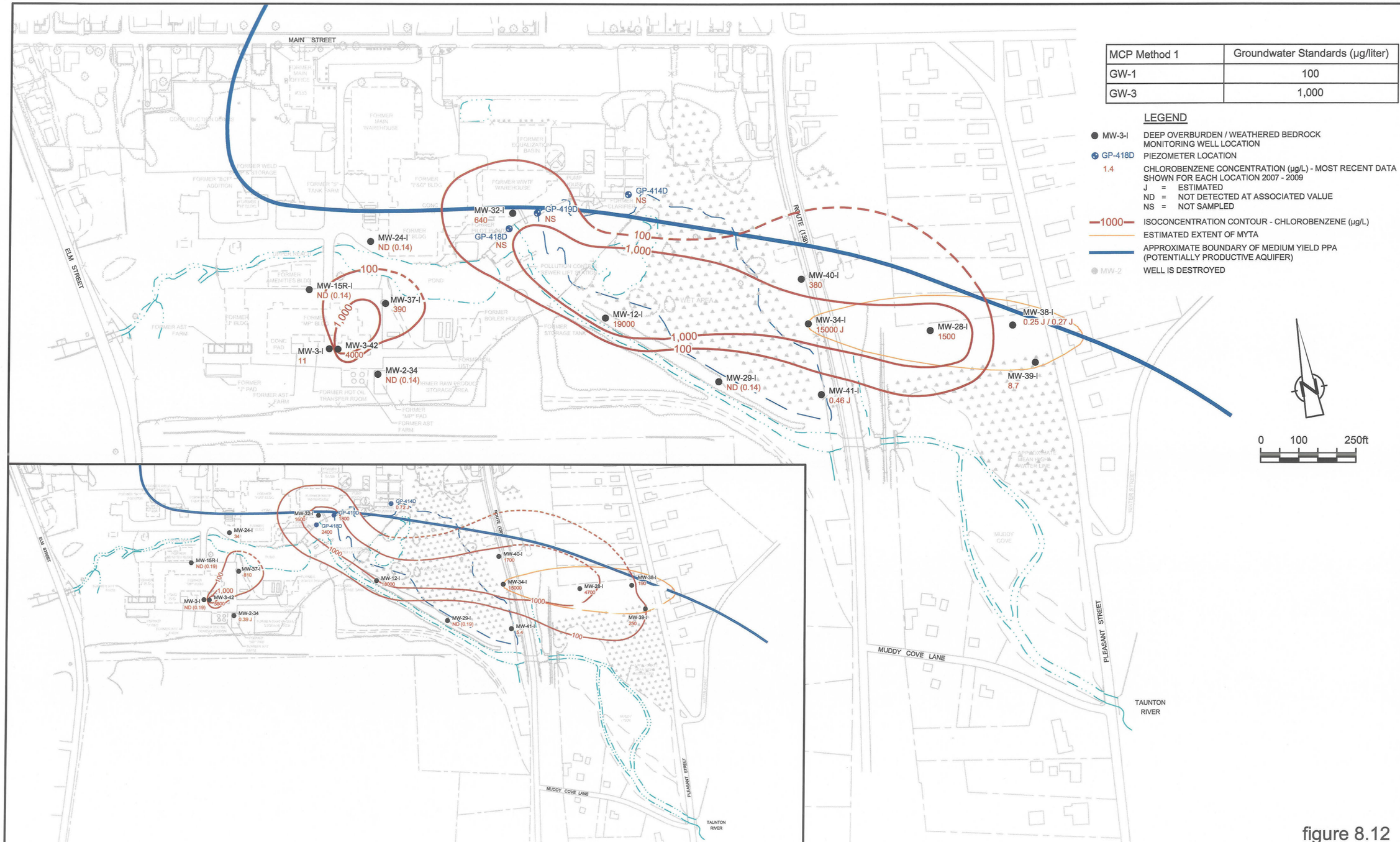
Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA012 OCT 05/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-1	100
GW-3	1,000

LEGEND

- MW-3-I — DEEP OVERBURDEN / WEATHERED BEDROCK MONITORING WELL LOCATION
- GP-418D — PIEZOMETER LOCATION
- 1.4 — CHLOROBENZENE CONCENTRATION (µg/L) - MOST RECENT DATA SHOWN FOR EACH LOCATION 2007 - 2009
  - J = ESTIMATED
  - ND = NOT DETECTED AT ASSOCIATED VALUE
  - NS = NOT SAMPLED
- 1000 — ISOCONCENTRATION CONTOUR - CHLOROBENZENE (µg/L)
- ESTIMATED EXTENT OF MYTA
- APPROXIMATE BOUNDARY OF MEDIUM YIELD PPA (POTENTIALLY PRODUCTIVE AQUIFER)
- MW-2 — WELL IS DESTROYED



SRFI DATA

SOURCE - figure 8.35
DEEP OVERBURDEN/WEATHERED BEDROCK CHLOROBENZENE GROUNDWATER CONCENTRATIONS
SFRI REPORT, AUGUST 2010

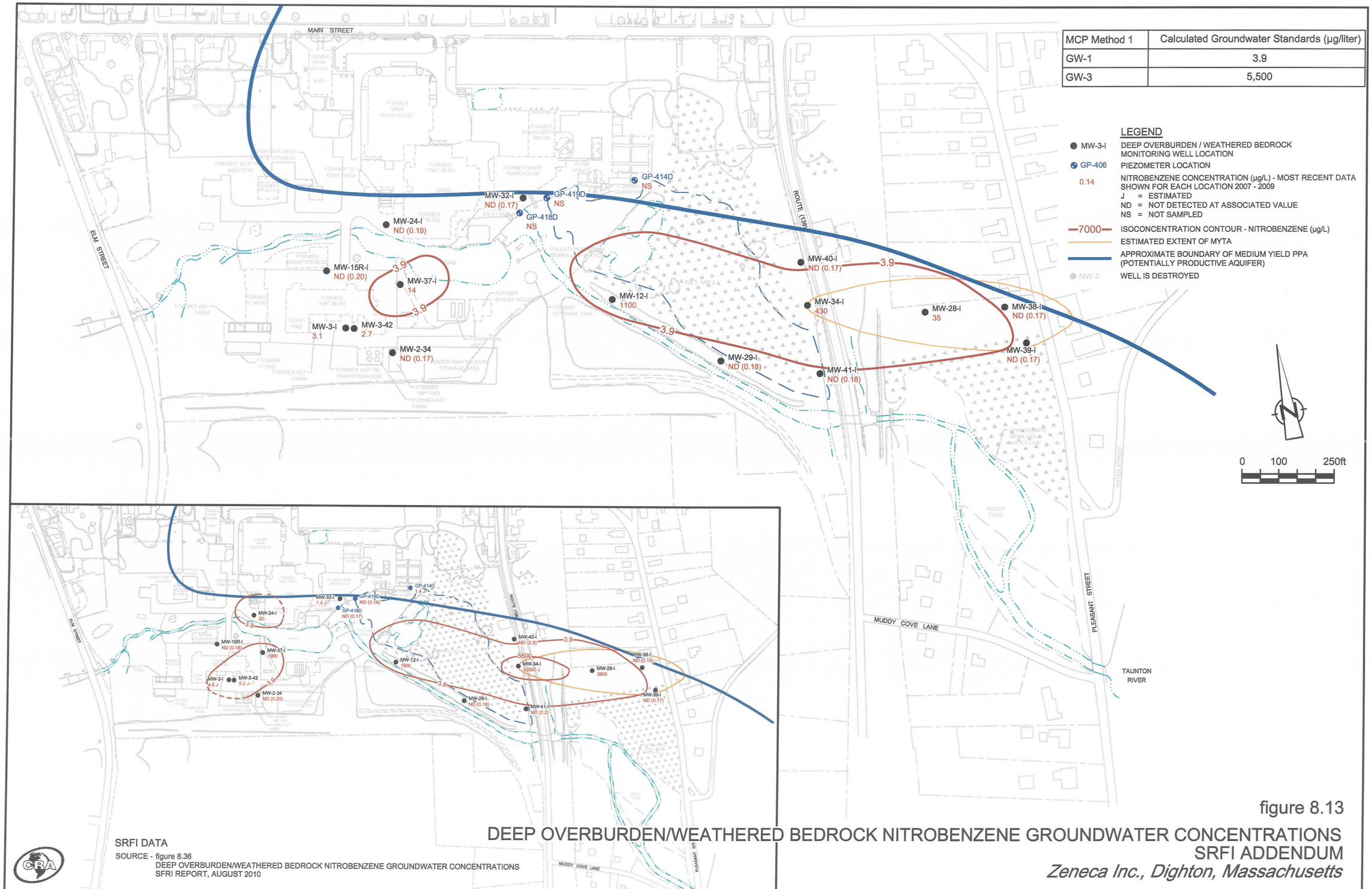
figure 8.12

DEEP OVERBURDEN/WEATHERED BEDROCK CHLOROBENZENE GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA013 OCT 05/2010

MCP Method 1	Calculated Groundwater Standards (µg/liter)
GW-1	3.9
GW-3	5,500



SRFI DATA

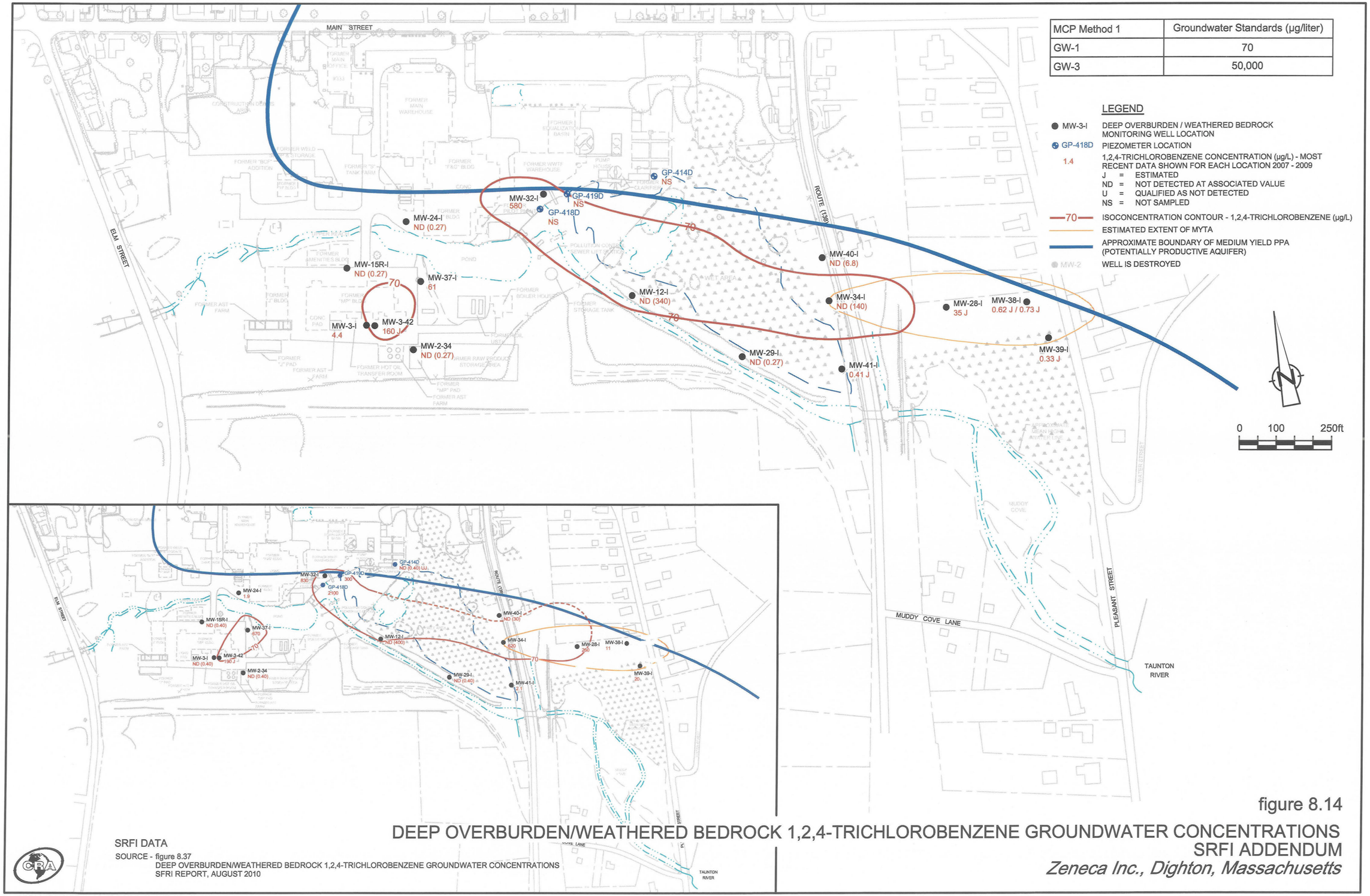
SOURCE - figure 8.36
DEEP OVERBURDEN/WEATHERED BEDROCK NITROBENZENE GROUNDWATER CONCENTRATIONS
SFRI REPORT, AUGUST 2010

figure 8.13

DEEP OVERBURDEN/WEATHERED BEDROCK NITROBENZENE GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM
Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA014 OCT 05/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-1	70
GW-3	50,000



SRFI DATA

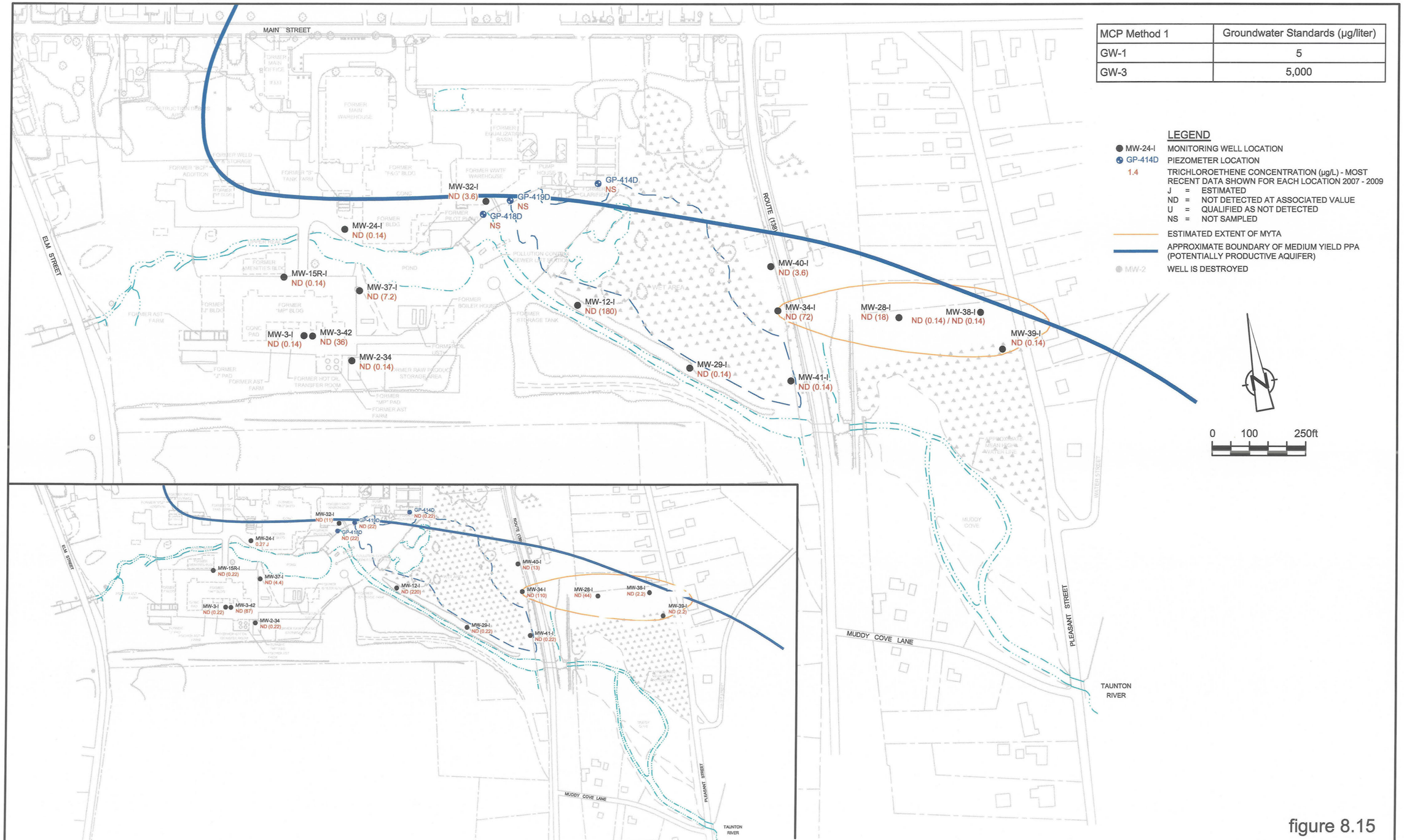
SOURCE - figure 8.37
DEEP OVERBURDEN/WEATHERED BEDROCK 1,2,4-TRICHLOROBENZENE GROUNDWATER CONCENTRATIONS
SFRI REPORT, AUGUST 2010

figure 8.14

DEEP OVERBURDEN/WEATHERED BEDROCK 1,2,4-TRICHLOROBENZENE GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM
Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA015 OCT 05/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-1	5
GW-3	5,000



SRFI DATA

SOURCE - figure 8.38
DEEP OVERBURDEN/WEATHERED BEDROCK TRICHLOROETHENE GROUNDWATER CONCENTRATIONS
SFRI REPORT, AUGUST 2010

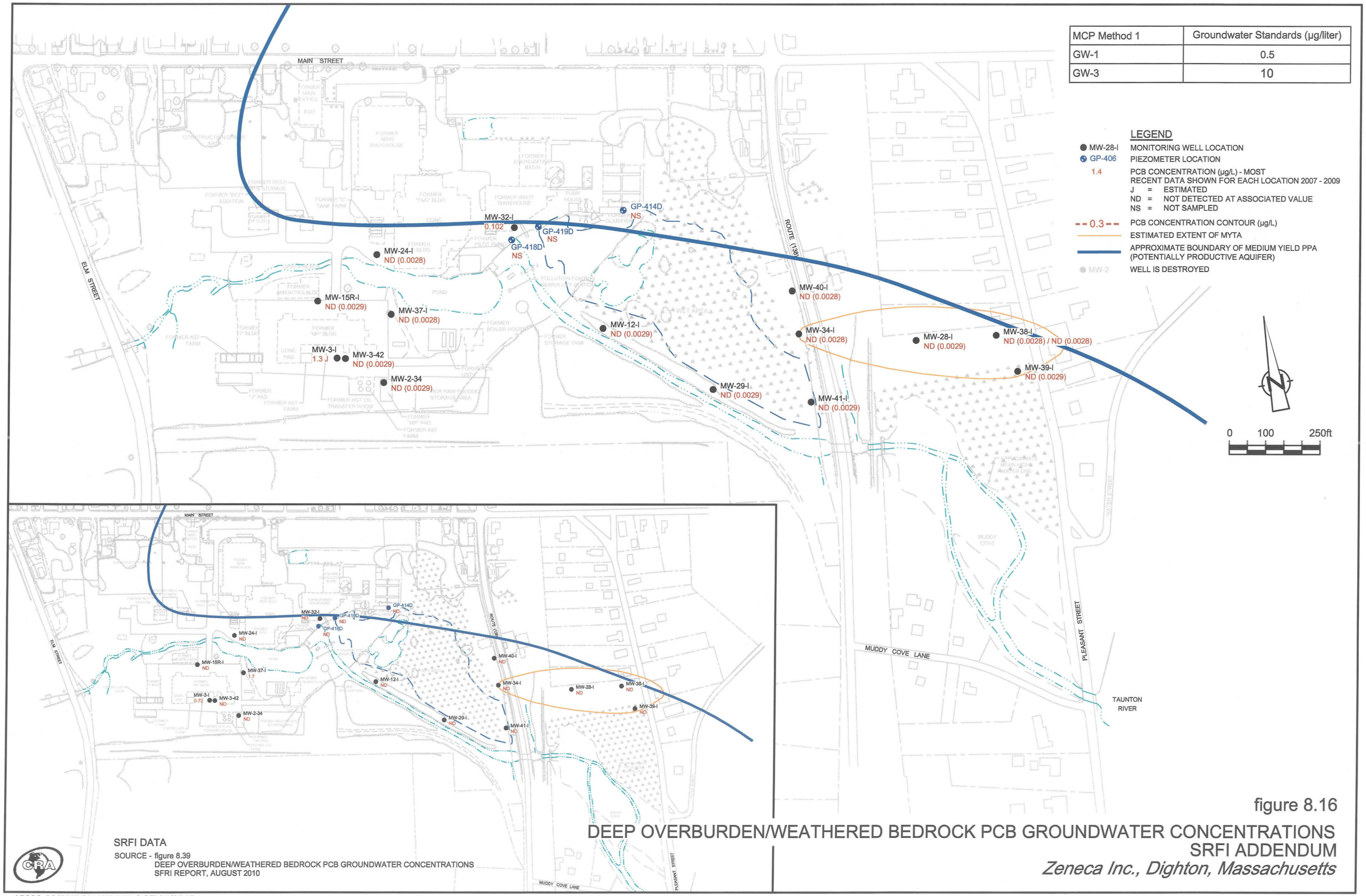
figure 8.15

DEEP OVERBURDEN/WEATHERED BEDROCK TRICHLOROETHENE GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA016 OCT 05/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-1	0.5
GW-3	10



SRFI DATA

SOURCE - figure 8.39
DEEP OVERBURDEN/WEATHERED BEDROCK PCB GROUNDWATER CONCENTRATIONS
SFRI REPORT, AUGUST 2010

figure 8.16

DEEP OVERBURDEN/WEATHERED BEDROCK PCB GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA017 OCT 05/2010

MCP Method 1	Groundwater Standard (µg/liter)
GW-3	900

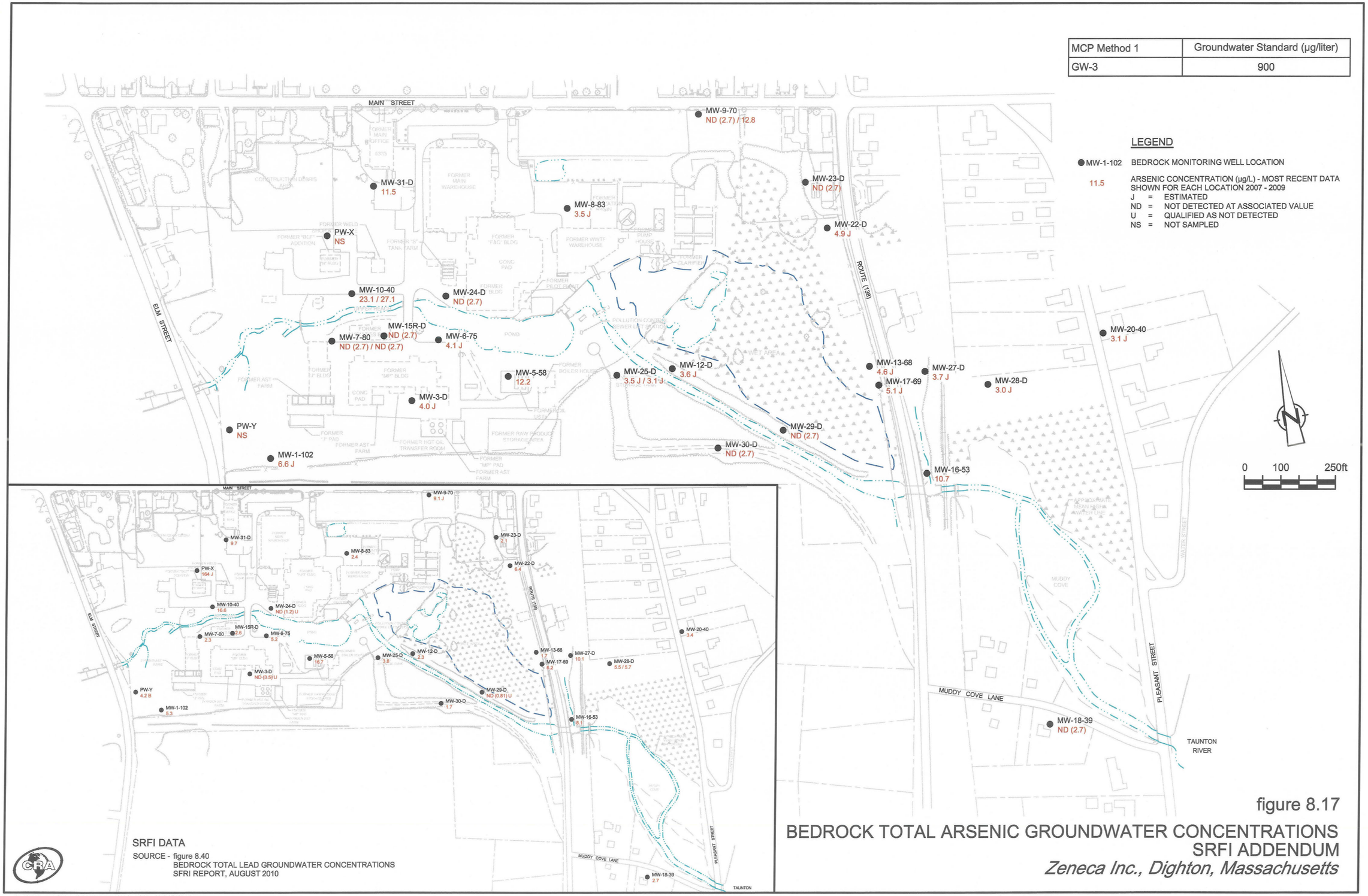


figure 8.17

BEDROCK TOTAL ARSENIC GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA031 OCT 05/2010

MCP Method 1	Groundwater Standard (µg/liter)
GW-3	10

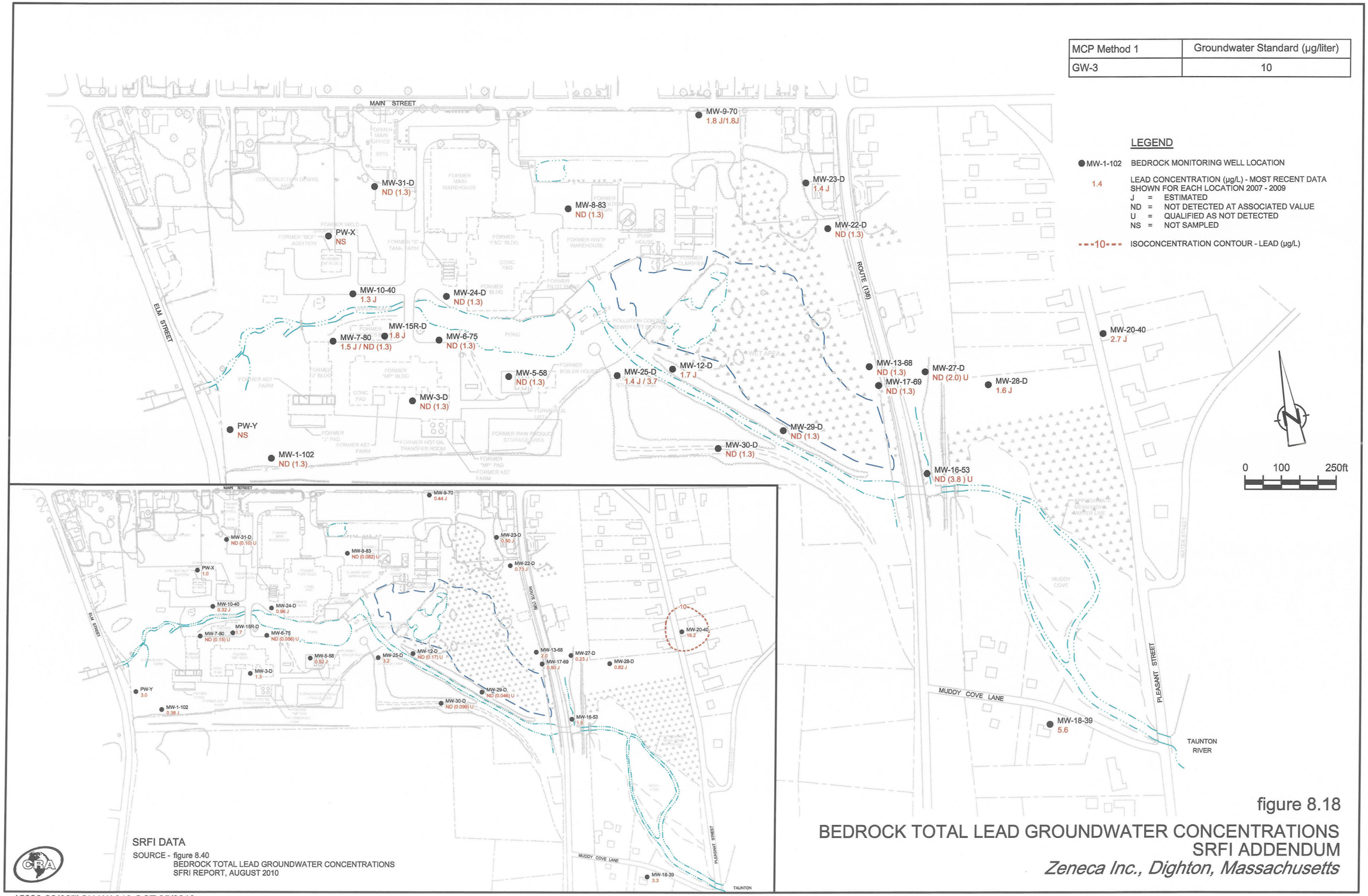


figure 8.18

BEDROCK TOTAL LEAD GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

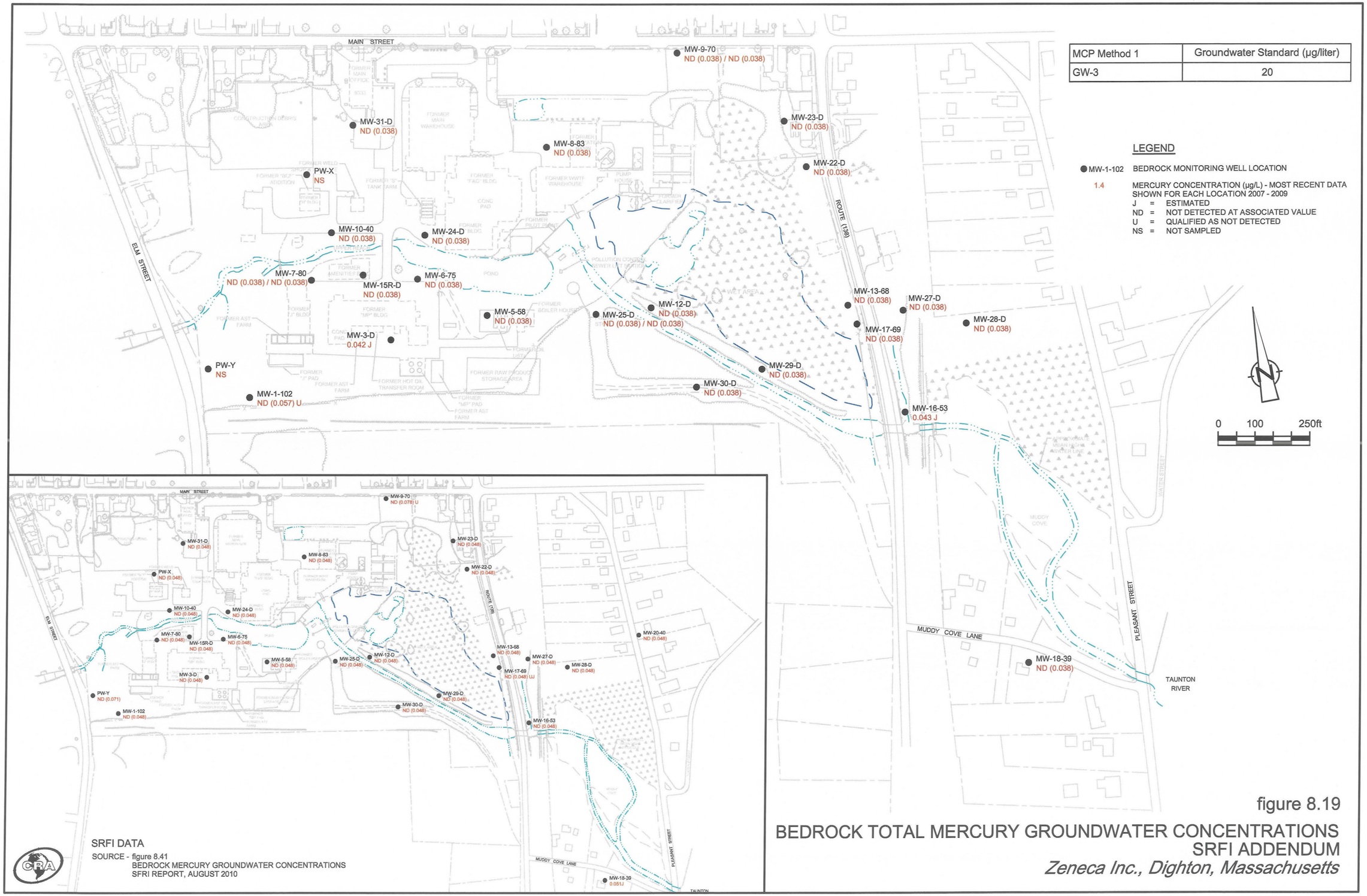
Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA018 OCT 05/2010

MCP Method 1	Groundwater Standard (µg/liter)
GW-3	20

LEGEND

- ● MW-1-102 — BEDROCK MONITORING WELL LOCATION
- 1.4 — MERCURY CONCENTRATION (µg/L) - MOST RECENT DATA SHOWN FOR EACH LOCATION 2007 - 2009
  - J = ESTIMATED
  - ND = NOT DETECTED AT ASSOCIATED VALUE
  - U = QUALIFIED AS NOT DETECTED
  - NS = NOT SAMPLED



SRFI DATA

SOURCE - figure 8.41
BEDROCK MERCURY GROUNDWATER CONCENTRATIONS
SFRI REPORT, AUGUST 2010

figure 8.19

BEDROCK TOTAL MERCURY GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA019 OCT 05/2010

MCP Method 1	Groundwater Standard (µg/liter)
GW-3	1,000

LEGEND

- MW-1-102 — BEDROCK MONITORING WELL LOCATION
- 1.4 — CHLOROBENZENE CONCENTRATION (µg/L) - MOST RECENT DATA SHOWN FOR EACH LOCATION 2007 - 2009
  - J = ESTIMATED
  - ND = NOT DETECTED AT ASSOCIATED VALUE
  - B = ANALYTE DETECTED IN BLANK
  - U = QUALIFIED AS NOT DETECTED
  - NS = NOT SAMPLED
- 1000 — ISOCONCENTRATION CONTOUR - CHLOROBENZENE (µg/L)

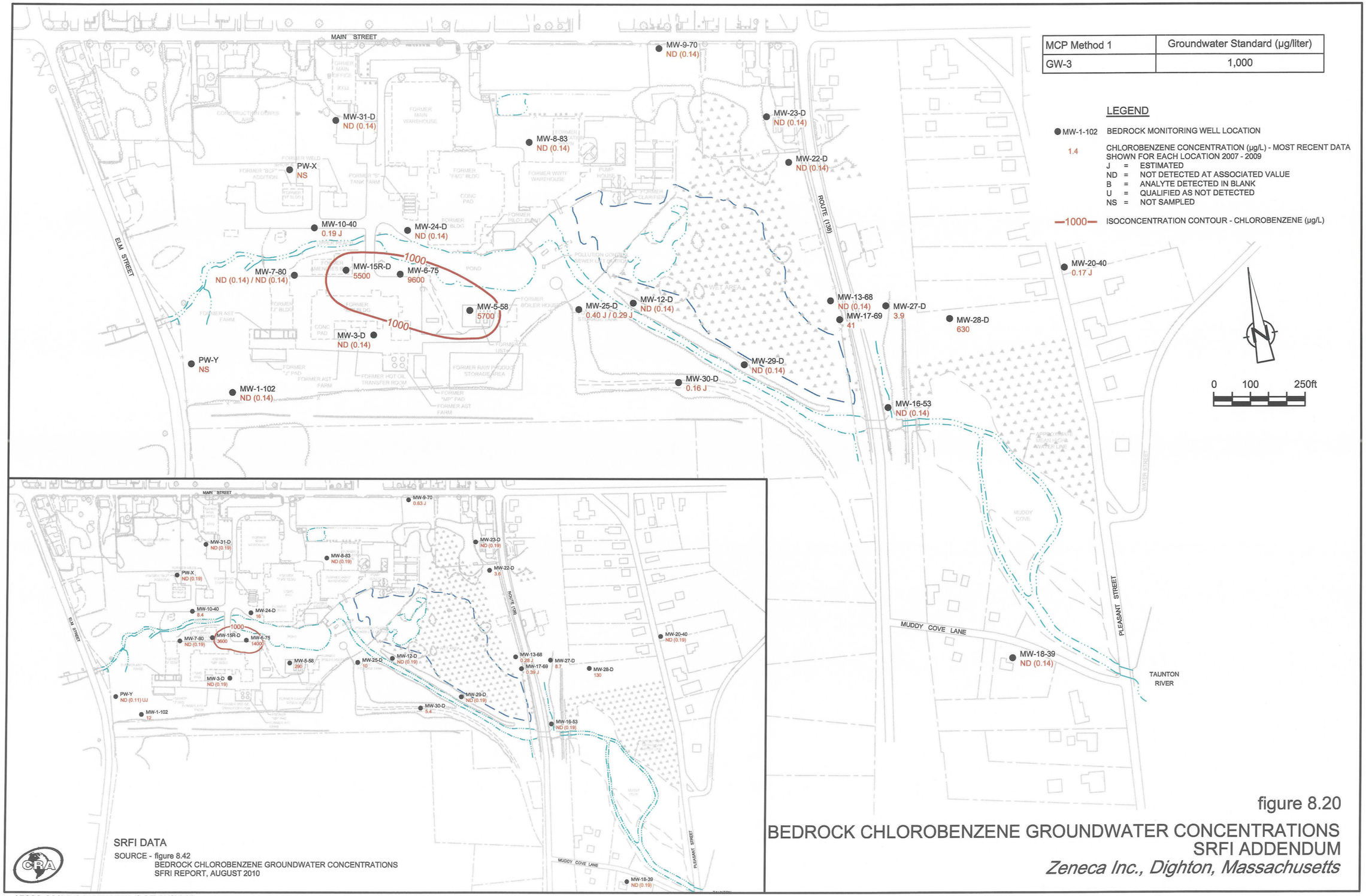


figure 8.20

BEDROCK CHLOROBENZENE GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

Zeneca Inc., Dighton, Massachusetts

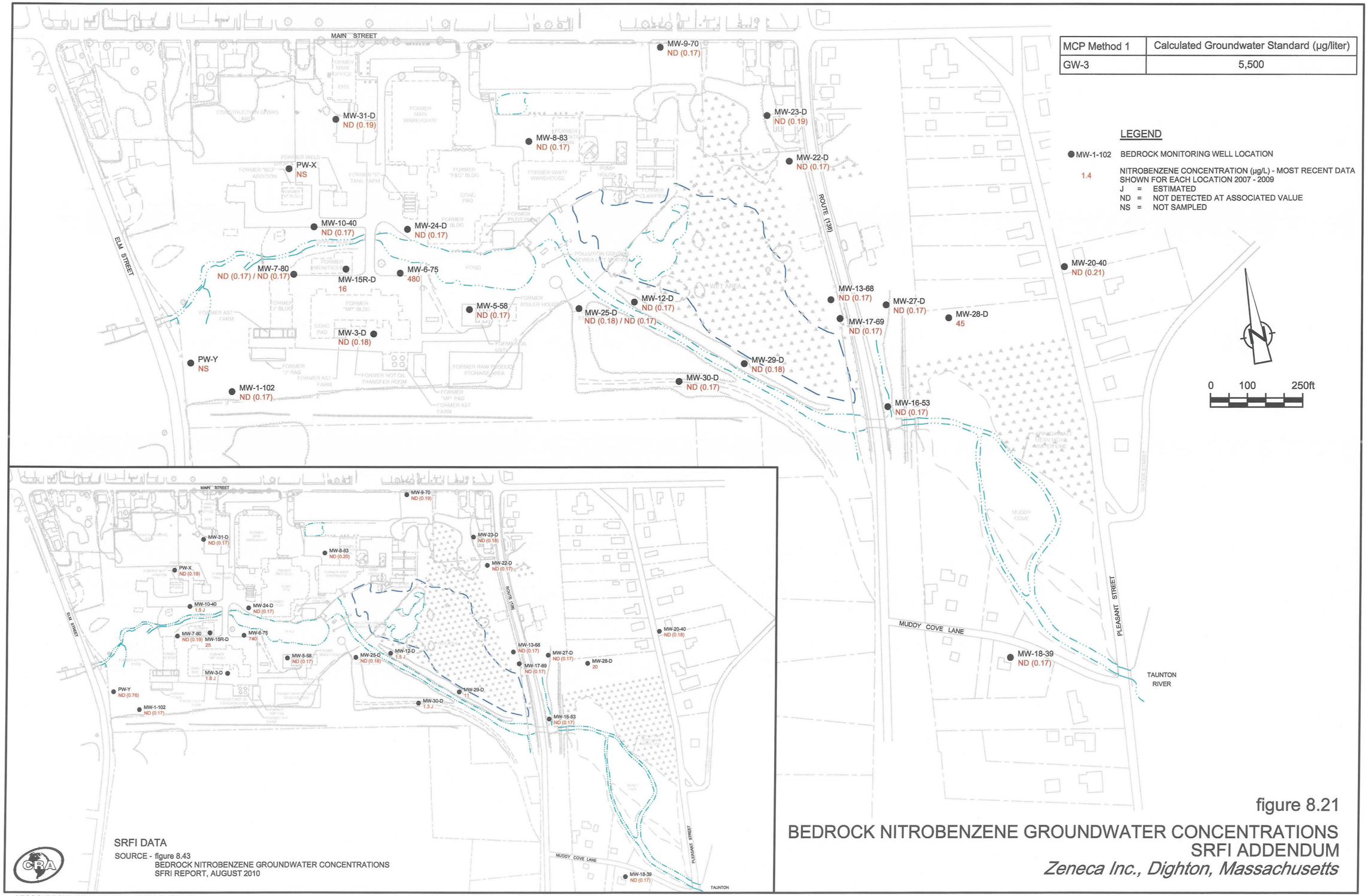
15620-82(027)GN-WA020 OCT 05/2010

MCP Method 1	Calculated Groundwater Standard (µg/liter)
GW-3	5,500

LEGEND

● MW-1-102 BEDROCK MONITORING WELL LOCATION

1.4 NITROBENZENE CONCENTRATION (µg/L) - MOST RECENT DATA SHOWN FOR EACH LOCATION 2007 - 2009
J = ESTIMATED
ND = NOT DETECTED AT ASSOCIATED VALUE
NS = NOT SAMPLED



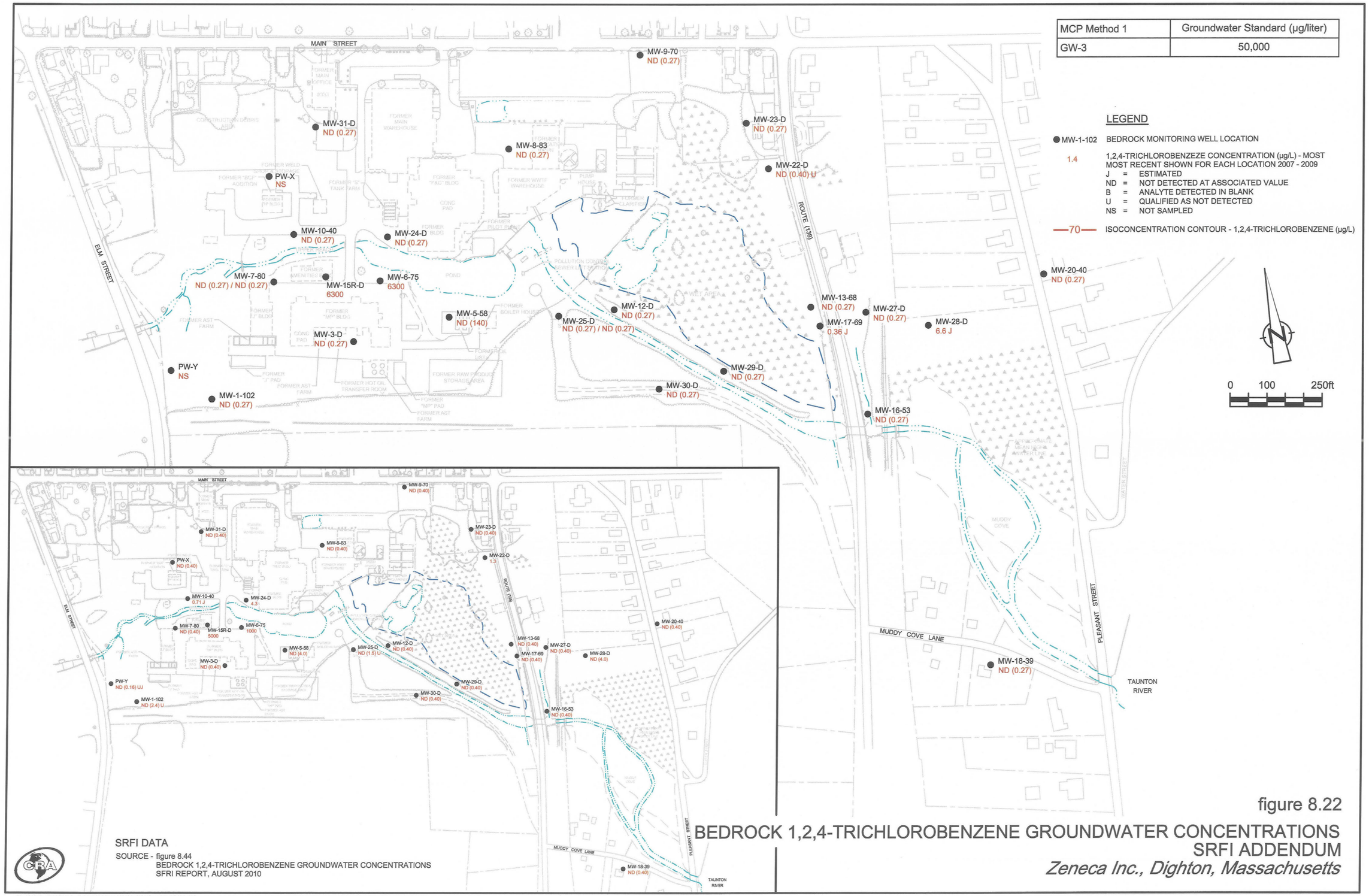
SRFI DATA
SOURCE - figure 8.43
BEDROCK NITROBENZENE GROUNDWATER CONCENTRATIONS
SFRI REPORT, AUGUST 2010

figure 8.21

BEDROCK NITROBENZENE GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM
Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA021 OCT 05/2010

MCP Method 1	Groundwater Standard (µg/liter)
GW-3	50,000



LEGEND

- MW-1-102 — BEDROCK MONITORING WELL LOCATION
- 1.4 — 1,2,4-TRICHLOROBENZEZE CONCENTRATION (µg/L) - MOST MOST RECENT SHOWN FOR EACH LOCATION 2007 - 2009
  - J = ESTIMATED
  - ND = NOT DETECTED AT ASSOCIATED VALUE
  - B = ANALYTE DETECTED IN BLANK
  - U = QUALIFIED AS NOT DETECTED
  - NS = NOT SAMPLED
- 70 — ISOCONCENTRATION CONTOUR - 1,2,4-TRICHLOROBENZENE (µg/L)

SRFI DATA

SOURCE - figure 8.44
BEDROCK 1,2,4-TRICHLOROBENZENE GROUNDWATER CONCENTRATIONS
SFRI REPORT, AUGUST 2010

figure 8.22

BEDROCK 1,2,4-TRICHLOROBENZENE GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM
Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA022 OCT 05/2010

MCP Method 1	Groundwater Standard (µ/liter)
GW-3	5,000

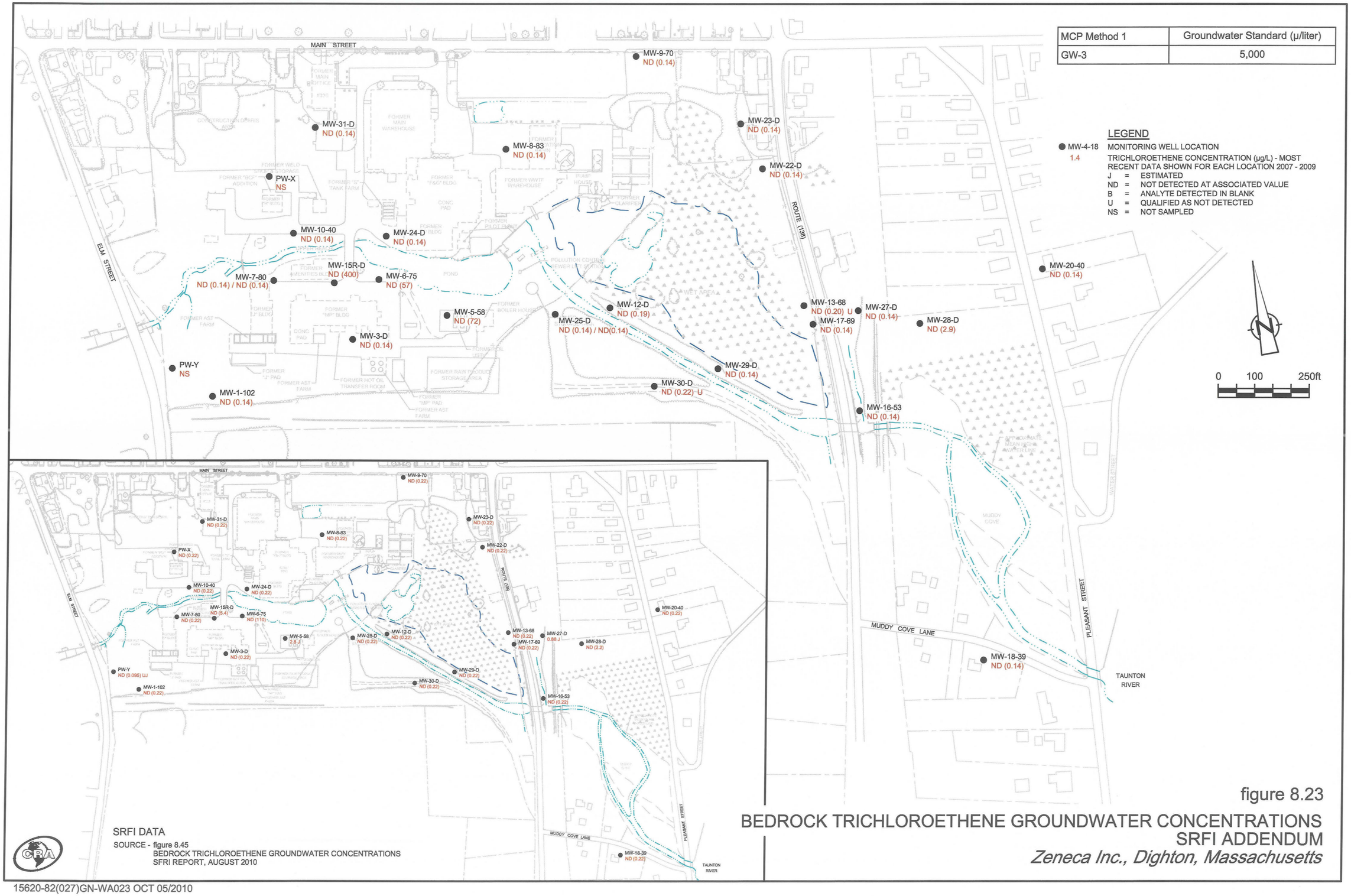


figure 8.23

BEDROCK TRICHLOROETHENE GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

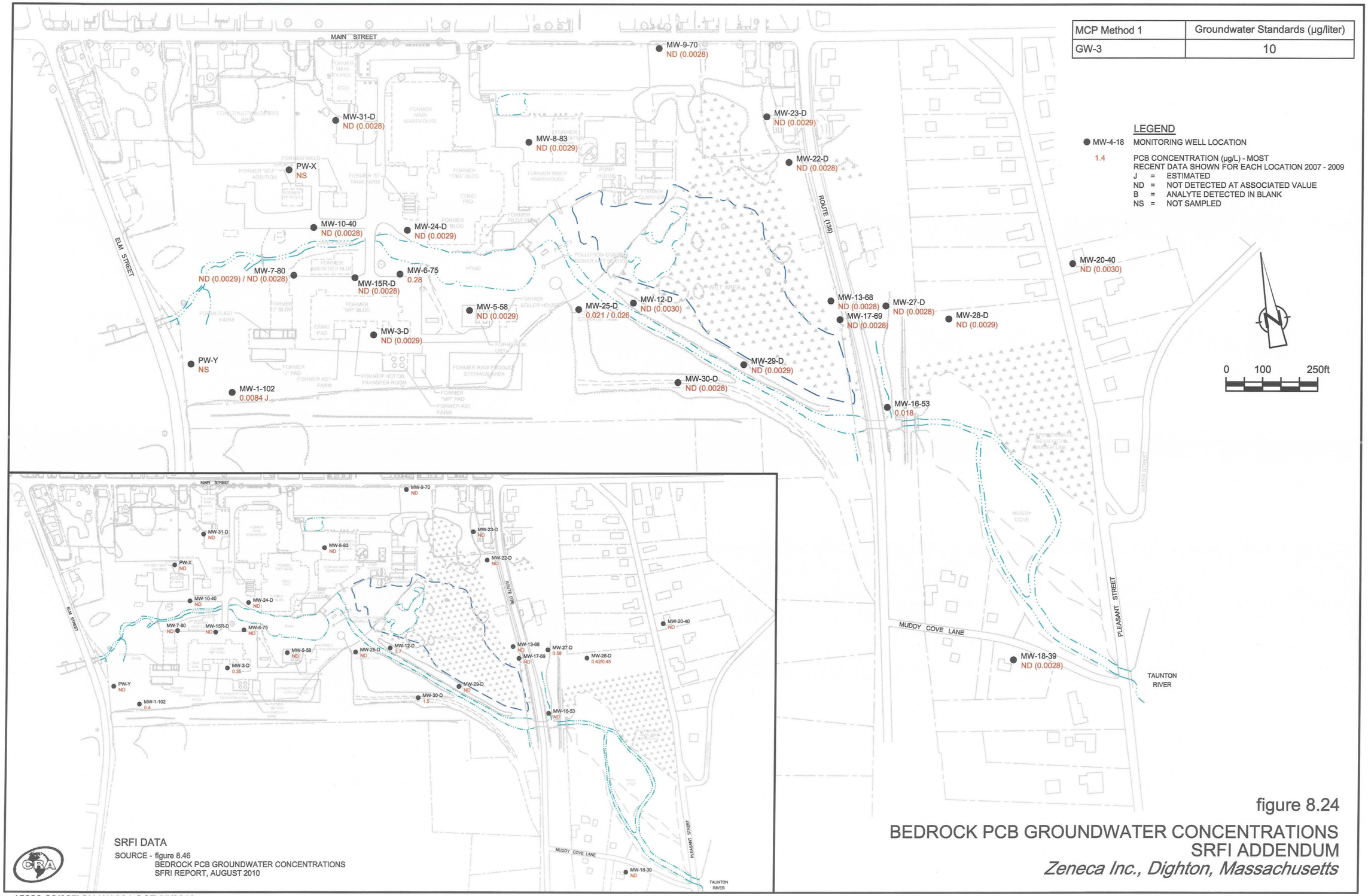
Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA023 OCT 05/2010

MCP Method 1	Groundwater Standards (µg/liter)
GW-3	10

LEGEND

- ● MW-4-18 MONITORING WELL LOCATION
- 1.4 PCB CONCENTRATION (µg/L) - MOST RECENT DATA SHOWN FOR EACH LOCATION 2007 - 2009
  - J = ESTIMATED
  - ND = NOT DETECTED AT ASSOCIATED VALUE
  - B = ANALYTE DETECTED IN BLANK
  - NS = NOT SAMPLED



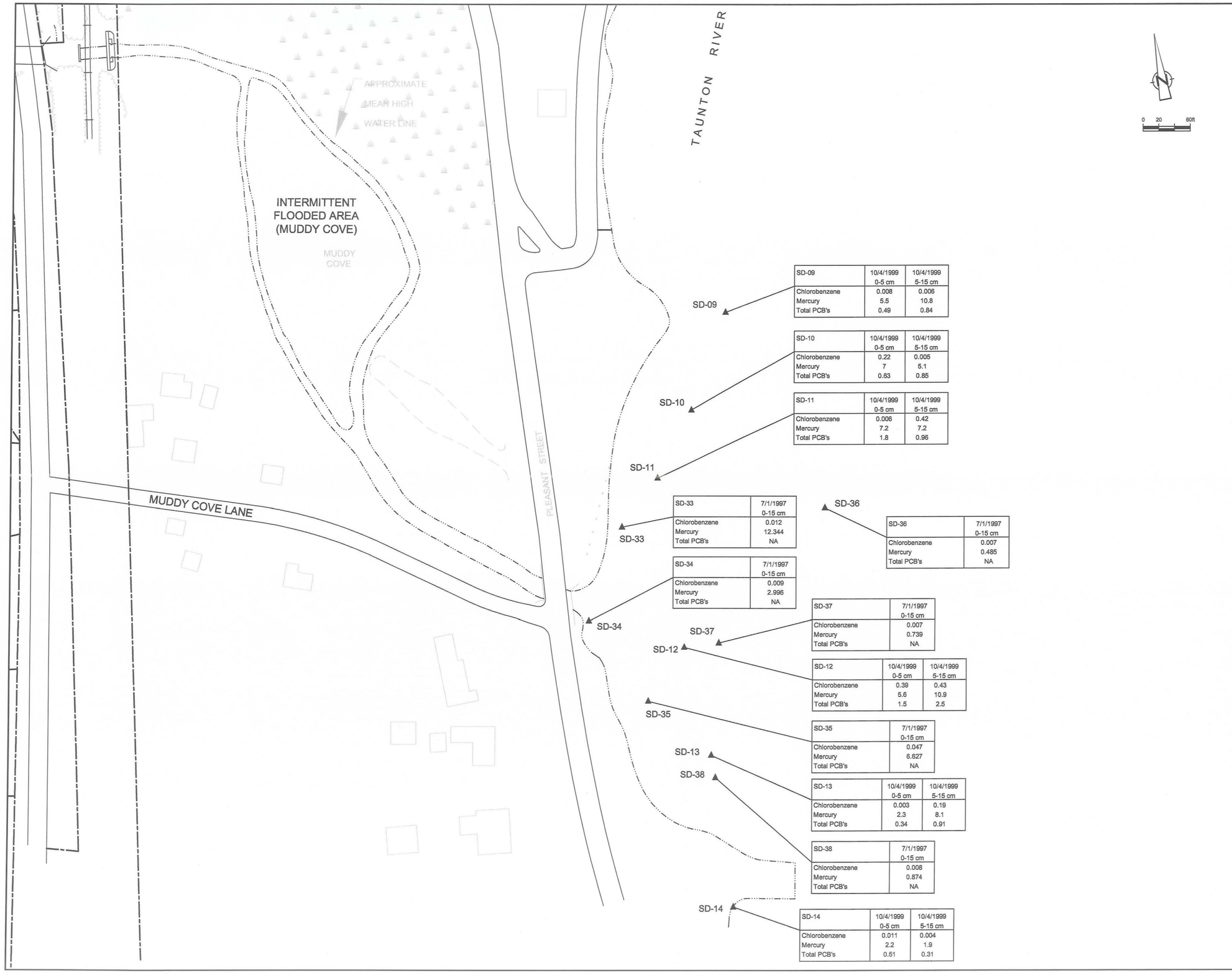
SRFI DATA
SOURCE - figure 8.46
BEDROCK PCB GROUNDWATER CONCENTRATIONS
SFRI REPORT, AUGUST 2010

figure 8.24

BEDROCK PCB GROUNDWATER CONCENTRATIONS
SRFI ADDENDUM

Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA024 OCT 05/2010



SD-09	10/4/1999 0-5 cm	10/4/1999 5-15 cm
Chlorobenzene	0.008	0.006
Mercury	5.5	10.8
Total PCB's	0.49	0.84

SD-10	10/4/1999 0-5 cm	10/4/1999 5-15 cm
Chlorobenzene	0.22	0.005
Mercury	7	5.1
Total PCB's	0.63	0.85

SD-11	10/4/1999 0-5 cm	10/4/1999 5-15 cm
Chlorobenzene	0.006	0.42
Mercury	7.2	7.2
Total PCB's	1.8	0.96

SD-33	7/1/1997 0-15 cm
Chlorobenzene	0.012
Mercury	12.344
Total PCB's	NA

SD-34	7/1/1997 0-15 cm
Chlorobenzene	0.009
Mercury	2.996
Total PCB's	NA

SD-36	7/1/1997 0-15 cm
Chlorobenzene	0.007
Mercury	0.485
Total PCB's	NA

SD-37	7/1/1997 0-15 cm
Chlorobenzene	0.007
Mercury	0.739
Total PCB's	NA

SD-12	10/4/1999 0-5 cm	10/4/1999 5-15 cm
Chlorobenzene	0.39	0.43
Mercury	5.6	10.9
Total PCB's	1.5	2.5

SD-35	7/1/1997 0-15 cm
Chlorobenzene	0.047
Mercury	6.627
Total PCB's	NA

SD-13	10/4/1999 0-5 cm	10/4/1999 5-15 cm
Chlorobenzene	0.003	0.19
Mercury	2.3	8.1
Total PCB's	0.34	0.91

SD-38	7/1/1997 0-15 cm
Chlorobenzene	0.008
Mercury	0.874
Total PCB's	NA

SD-14	10/4/1999 0-5 cm	10/4/1999 5-15 cm
Chlorobenzene	0.011	0.004
Mercury	2.2	1.9
Total PCB's	0.51	0.31

Nº	Revision	Date	Initial

LEGEND

▲ SD-09 SEDIMENT SAMPLE LOCATION

NA — NOT ANALYZED

SD-36	7/1/1997
	0-15 cm
Chlorobenzene	0.007
Mercury	0.485
Total PCB's	NA

SAMPLE LOCATION
SAMPLE DATE
SAMPLE DEPTH
RESULT (mg/kg)
PARAMETER

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

ZENECA INC.
DIGHTON, MASSACHUSETTS

SRFI ADDENDUM

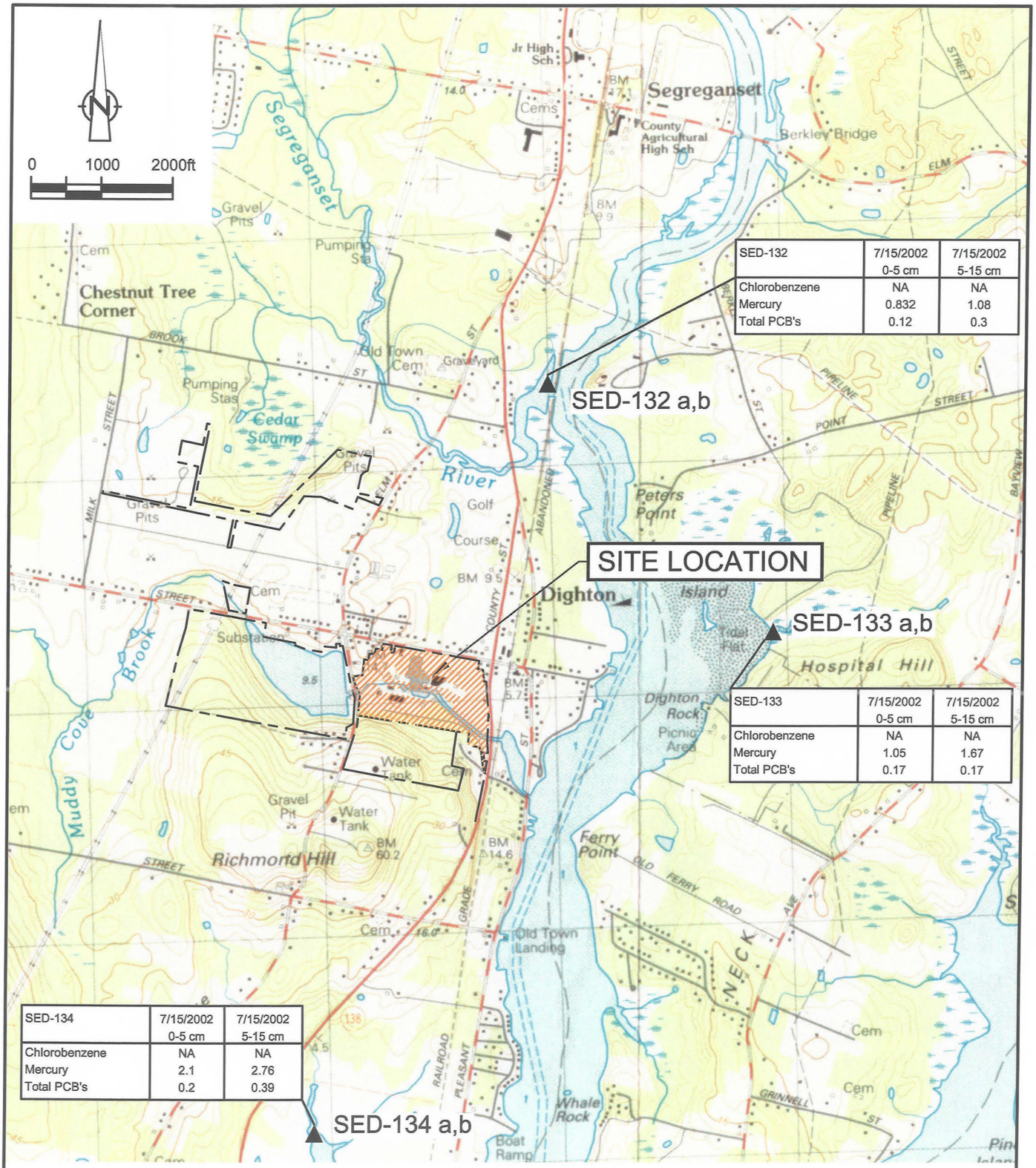
TAUNTON RIVER SEDIMENT SAMPLES

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
JOHN W. DELANO AND ASSOCIATES, INC. AUG. 8, 2000 JOB No. JN-5129

Project Manager:	Reviewed By:	Date:	
J.K.P.	C.S.	SEPTEMBER 2010	
Scale: AS SHOWN	Project Nº: 15620-82	Report Nº: 027	Drawing Nº: figure 8.25

15620-82(027)GN-WA025 OCT 05/2010



SED-132	7/15/2002 0-5 cm	7/15/2002 5-15 cm
Chlorobenzene	NA	NA
Mercury	0.832	1.08
Total PCB's	0.12	0.3

SED-133	7/15/2002 0-5 cm	7/15/2002 5-15 cm
Chlorobenzene	NA	NA
Mercury	1.05	1.67
Total PCB's	0.17	0.17

SED-134	7/15/2002 0-5 cm	7/15/2002 5-15 cm
Chlorobenzene	NA	NA
Mercury	2.1	2.76
Total PCB's	0.2	0.39

LEGEND

SITE LOCATION

PROPERTY BOUNDARY

SED-134a,b ▲ SEDIMENT SAMPLE LOCATION

SED-134	7/15/2002	— SAMPLE LOCATION
	0-5 cm	— SAMPLE DATE
Mercury	2.1	— SAMPLE DEPTH
Total PCBs	0.2	— RESULT (mg/kg)

— PARAMETER

NA — NOT ANALYZED

SOURCE: SOMERSET MASSACHUSETTS QUADRANGLE MAP

figure 8.26

OFF-SITE REFERENCE SEDIMENT SAMPLE LOCATIONS SRFI ADDENDUM

Zeneca Inc., Dighton, Massachusetts

15620-82(027)GN-WA026 OCT 05/2010

TABLE 3.1

MONITORING WELL CONSTRUCTION DETAILS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well Name	*Borehole Log Available*	*Screen Top (ft bgs)*	*Screen Bot (ft bgs)*	*Screen Length (ft)*	*Ground Surface (ft AMSL) N.G.V.D.29*	*Mid Screen (ft AMSL)*	*Casing Material*	*Screen Material*	*Slot Size (in)*
EAST	No	NA	NA	NA	15.50	5.31	NA	NA	NA
GZ-1	Yes	NA	NA	NA	10.01	NA	NA	NA	NA
GZ-2	Yes	NA	NA	NA	10.20	NA	NA	NA	NA
GZ-3	Yes	NA	NA	NA	10.99	-2.88	NA	NA	NA
GZ-4	Yes	NA	NA	NA	11.22	-2.82	NA	NA	NA
GZ-5	Yes	NA	NA	NA	10.04	NA	NA	NA	NA
Middle	No	NA	NA	NA	NA	7.45	NA	NA	NA
MW-1-102	Yes	92.0	102.0	10.0	21.60	-75.40	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-1-13	Yes	3.0	13.0	10.0	22.20	14.20	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-2-10	Yes	2.0	10.5	8.5	13.70	7.45	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-2-34	Yes	23.7	33.7	10.0	13.00	-15.70	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-3-14	Yes	2.0	14.0	12.0	13.60	5.60	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-3-42	Yes	31.5	41.5	10.0	13.70	-22.80	4 in. ID Steel	4 in. ID Stainless Steel	0.02
MW-3-I	Yes	25.0	28.0	3.0	13.76	-12.74	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-3-D	Yes	64.0	69.0	5.0	13.77	-52.73	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-4-18	Yes	4.0	18.0	14.0	14.70	3.70	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-5-16	Yes	3.0	16.0	13.0	13.50	4.00	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-5-58	Yes	48.0	58.0	10.0	13.30	-39.70	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-6-17	Yes	4.0	17.0	13.0	12.40	1.90	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-6-75	Yes	65.0	75.0	10.0	12.30	-57.70	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-7-20	Yes	5.0	20.0	15.0	13.10	0.60	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-7-80	Yes	70.0	80.0	10.0	13.10	-61.90	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-8-83	Yes	72.6	82.6	10.0	10.20	-67.40	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-9-15	Draft	5.4	14.3	8.7	11.16	1.31	4 in. ID PVC	4 in. ID slotted PVC	0.01
MW-9-70	Draft	58.0	63.0	5.0	11.15	-49.35	4 in. ID PVC	4 in. ID slotted PVC	0.01
MW-10-14	Draft	4.6	13.3	8.7	13.09	4.14	4 in. ID PVC	4 in. ID slotted PVC	0.01
MW-10-40	Draft	34.5	39.5	5.0	12.92	-24.08	4 in. ID PVC	4 in. ID slotted PVC	0.01
MW-11-13	Draft	3.2	11.9	8.7	8.10	0.55	4 in. ID PVC	4 in. ID slotted PVC	0.01
MW-11R-14	Yes	2.0	12.0	10.0	8.59	1.59	2 in. ID PVC	2 in. ID slotted PVC	0.01
MW-12-19	Draft	9.7	18.4	8.7	10.46	-3.59	4 in. ID PVC	4 in. ID slotted PVC	0.01
MW-12-I	Yes	21.0	25.0	4.0	10.12	-12.88	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-12-D	Yes	156.0	161.0	5.0	10.17	-148.33	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-13-68	Draft	64.0	69.0	5.0	6.50	-60.00	2 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.01
MW-14-13	Draft	3.0	13.0	10.0	13.97	5.97	PVC	NA	NA
MW-15-12	Draft	2.0	12.0	10.0	14.80	7.80	PVC	NA	NA
MW-15R-I	Yes	20.0	23.0	3.0	12.87	-8.63	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02

TABLE 3.1

MONITORING WELL CONSTRUCTION DETAILS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well Name	*Borehole Log Available*	*Screen Top (ft bgs)*	*Screen Bot (ft bgs)*	*Screen Length (ft)*	*Ground Surface (ft AMSL) N.G.V.D.29*	*Mid Screen (ft AMSL)*	*Casing Material*	*Screen Material*	*Slot Size (in)*
MW-15R-S	Yes	5.0	15.0	10.0	12.75	2.75	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-15R-D	Yes	90.0	95.0	5.0	12.84	-79.66	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-16-14	Yes	4.0	14.0	10.0	9.80	0.80	2 in. ID PVC	2 in. ID slotted PVC	0.01
MW-16-53	Yes	43.0	53.0	10.0	10.15	-37.85	2 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.01
MW-17-69	Yes	59.0	69.0	10.0	7.92	-56.08	2 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.01
MW-18-15	No	NA	NA	NA	10.20	NA	NA	NA	NA
MW-18-39	No	NA	NA	NA	9.63	NA	NA	NA	NA
MW-19-15	No	NA	NA	NA	NA	NA	NA	NA	NA
MW-19-39	No	NA	NA	NA	NA	NA	NA	NA	NA
MW-20-15	No	NA	NA	NA	9.93	NA	NA	NA	NA
MW-20-40	Yes	35.0	40.0	5.0	9.97	-27.53	NA	NA	NA
MW-21-12	Yes	2.0	12.0	10.0	8.18	1.18	NA	NA	NA
MW-22-S	Yes	5.0	15.0	10.0	11.41	1.41	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-22-D	Yes	54.3	59.3	5.0	11.32	-45.48	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-23-S	Yes	5.0	15.0	10.0	15.14	5.14	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-23-D	Yes	47.0	52.0	5.0	15.01	-34.49	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-24-S	Yes	5.0	15.0	10.0	9.78	-0.22	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-24-I	Yes	15.0	19.0	4.0	9.99	-7.01	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-24-D	Yes	39.0	44.0	5.0	10.10	-31.40	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-25-S	Yes	4.5	9.5	5.0	7.92	0.92	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-25-D	Yes	49.5	54.5	5.0	7.88	-44.12	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-26-S	Yes	5.0	15.0	10.0	9.80	-0.20	4 in. ID Sch. 40 PVC	4 in. ID Sch. 40 slotted PVC	0.02
MW-27-S	Yes	4.0	14.0	10.0	7.63	-1.37	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-27-D	Yes	96.0	101.0	5.0	7.58	-90.92	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-28-S	Yes	5.0	15.0	10.0	8.17	-1.83	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-28-I	Yes	24.0	27.0	3.0	7.77	-17.73	4 in. ID Sch. 40 PVC	2 in. ID Sch. 20 slotted PVC	0.02
MW-28-D	Yes	80.8	85.9	5.1	8.35	-75.00	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-29-S	Yes	5.0	15.0	10.0	10.05	0.05	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-29-I	Yes	20.0	23.0	3.0	10.02	-11.48	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-29-D	Yes	126.0	131.0	5.0	9.99	-118.51	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-30-S	Yes	6.0	9.0	3.0	14.53	7.03	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-30-D	Yes	76.0	81.0	5.0	14.36	-64.14	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-31-S	Yes	5.0	15.0	10.0	13.74	3.74	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-31-RS	Yes	5.0	15.0	10.0	13.54	3.54	2 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.01
MW-31-D	Yes	61.5	66.5	5.0	14.40	-49.60	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-32-I	Yes	15.0	17.9	2.9	7.90	-8.55	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02

TABLE 3.1

MONITORING WELL CONSTRUCTION DETAILS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well Name	*Borehole Log Available*	*Screen Top (ft bgs)*	*Screen Bot (ft bgs)*	*Screen Length (ft)*	*Ground Surface (ft AMSL) N.G.V.D.29*	*Mid Screen (ft AMSL)*	*Casing Material*	*Screen Material*	*Slot Size (in)*
MW-33-S	Yes	4.8	11.8	7.0	NA	NA	5 in. ID Sch. 40 PVC	3 in. ID Sch. 40 slotted PVC	0.02
MW-34-I	Yes	29.0	33.0	4.0	7.13	-23.87	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-35-S	Yes	3.0	13.0	10.0	8.61	0.61	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-36-S	Yes	4.0	14.0	10.0	8.25	-0.75	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-37-S	Yes	6.0	16.0	10.0	12.90	1.90	2 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.01
MW-37-I	Yes	20.0	24.0	4.0	12.70	-9.30	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-38-I	Yes	19.5	22.5	3.0	7.50	-13.50	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-38-S	Yes	3.0	13.0	10.0	7.06	-0.94	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-39-I	Yes	20.5	23.5	3.0	6.17	-15.83	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-39-S	Yes	3.0	13.0	10.0	6.33	-1.67	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-40-I	Yes	24.0	29.0	5.0	8.59	-17.91	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-41-I	Yes	28.0	33.0	5.0	8.04	-22.46	4 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
OW-1	No	NA	NA	NA	NA	NA	NA	NA	NA
OW-2	No	NA	NA	NA	7.16	NA	NA	NA	NA
OW-3	No	NA	NA	NA	NA	NA	NA	NA	NA
PW-X	No	32*	240*	NA	14.74	NA	NA	NA	NA
PW-Y	No	32*	150**	NA	21.03	NA	NA	NA	NA
WEST	No	NA	NA	NA	18.03	8.63	NA	NA	NA
MW-1	Yes	1.5	14.0	12.5	9.97	2.22	2 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-2	Yes	1.5	15.0	13.5	7.88	-0.37	2 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-3	Yes	1.0	15.0	14.0	9.84	1.84	2 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.01
MW-4	Yes	1.0	15.0	14.0	9.34	1.34	2 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.01
MW-5	No	NA	NA	NA	8.32	1.39	NA	NA	NA
MW-6	Yes	2.5	12.5	10.0	6.79	-0.71	2 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-7	Yes	5.0	12.0	7.0	7.93	-0.57	2 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-8	Yes	5.0	12.0	7.0	8.62	0.12	2 in. ID Sch. 40 PVC	2 in. ID Sch. 40 slotted PVC	0.02
MW-9	Yes	5.4	14.3	8.9	8.04	NA	NA	4 in. ID Sch. 40 slotted PVC	0.01
MW-10	Yes	4.6	13.3	8.7	6.81	-2.14	NA	4 in. ID Sch. 40 slotted PVC	0.01
GP-400S	Yes	3.0	9.0	6.0	15.40	9.40	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-400D	Yes	16.0	22.0	6.0	NA	NA	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-403	Yes	2.0	8.0	6.0	18.60	13.60	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-404	Yes	1.0	7.0	6.0	14.27	10.27	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-406	Yes	3.0	9.0	6.0	10.94	4.94	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-407	Yes	2.0	8.0	6.0	10.85	5.85	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-408S	Yes	0.5	6.5	6.0	9.96	6.46	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-408D	Yes	13.0	19.0	6.0	9.95	-6.05	0.5 in. ID PVC	0.5 in. ID PVC	0.01

TABLE 3.1

MONITORING WELL CONSTRUCTION DETAILS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well Name	*Borehole Log Available*	*Screen Top (ft bgs)*	*Screen Bot (ft bgs)*	*Screen Length (ft)*	*Ground Surface (ft AMSL) N.G.V.D.29*	*Mid Screen (ft AMSL)*	*Casing Material*	*Screen Material*	*Slot Size (in)*
GP-409	Yes	0.5	6.5	6.0	10.30	6.80	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-410S	Yes	0.5	6.5	6.0	8.46	4.96	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-410D	Yes	17.0	23.0	6.0	8.47	-11.53	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-411	Yes	0.5	6.5	6.0	9.46	5.96	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-412	Yes	0.5	6.5	6.0	12.08	8.58	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-413S	Yes	0.5	6.5	6.0	8.80	5.30	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-413D	Yes	13.0	19.0	6.0	8.80	-7.20	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-414S	Yes	0.5	6.5	6.0	9.35	5.85	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-414D	Yes	17.0	23.0	6.0	9.25	-10.75	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-415	Yes	0.5	6.5	6.0	8.65	5.15	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-416S	Yes	2.0	8.0	6.0	13.70	8.70	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-416D	Yes	16.0	22.0	6.0	NA	NA	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-417	Yes	0.5	6.5	6.0	10.39	6.89	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-418S	Yes	0.5	6.5	6.0	NA	NA	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-418D	Yes	16.0	22.0	6.0	NA	NA	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-419S	Yes	0.5	6.5	6.0	NA	NA	0.5 in. ID PVC	0.5 in. ID PVC	0.01
GP-419D	Yes	16.0	22.0	6.0	NA	NA	0.5 in. ID PVC	0.5 in. ID PVC	0.01

Note:

NA - Information Not Available
* - open corehole in bedrock
** - open corehole in bedrock-water bearing zones at 34 to 90 ft and 130 to 150 ft bgs

TABLE 3.2

GROUNDWATER ELEVATIONS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Reference Elevation (NAD 29) (top of PVC)*	*7/1/1997 Depth (ft. bgs)*	*7/1/1997 Elevation (ft. AMSL)*	*11/20/2003 Depth (ft. bgs)*	*11/20/2003 Elevation (ft. AMSL)*	*11/25/2003 Depth (ft. bgs)*	*11/25/2003 Elevation (ft. AMSL)*	*1/7/2004 Depth (ft. bgs)*	*1/7/2004 Elevation (ft. AMSL)*	*8/19/2005 Depth (ft. bgs)*	*8/19/2005 Elevation (ft. AMSL)*	*5/9/2006 Depth (ft. bgs)*	*5/9/2006 Elevation (ft. AMSL)*	*6/3/2009 Depth (ft. bgs)*	*6/3/2009 Elevation (ft. AMSL)*
Stream Gauge															
G1	34.91	NM	NM	2.62	32.29	4.42	30.49	2.44	32.47	NM	NM	NM	NM	NM	NM
G10	7.22	NM	NM	4.28	2.94	4.44	2.78	4.96	2.26	NM	NM	4.42	2.80	NM	NM
G11	3.24	NM	NM	3.47	-0.23	4.16	-0.92	4.11	-0.87	NM	NM	2.76	0.48	NM	NM
G2	32.56	NM	NM	2.00	30.56	2.01	30.55	NM	NM	NM	NM	NM	NM	NM	NM
G3	16.43	NM	NM	6.18	10.25	6.46	9.97	6.4	10.03	NM	NM	2.40	14.03	NM	NM
G4	10.12	NM	NM	3.64	6.48	3.17	6.95	4.61	5.51	NM	NM	3.32	6.80	NM	NM
G5	7.96	NM	NM	1.92	6.04	2.32	5.64	2.91	5.05	NM	NM	NM	NM	NM	NM
G6	6.89	NM	NM	0.89	6.00	1.06	5.83	0.97	5.92	NM	NM	0.92	5.97	NM	NM
G7	10	NM	NM	3.82	6.18	4.20	5.80	4.14	5.86	NM	NM	0.62	9.38	NM	NM
G8	8.11	NM	NM	3.67	4.44	4.31	3.80	4.09	4.02	NM	NM	3.08	5.03	NM	NM
G9	5.3	NM	NM	2.88	2.42	2.67	2.63	2.56	2.74	NM	NM	2.51	2.79	NM	NM
Overburden															
ERC-1	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	4.98	NM
ERC-2	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	2.45	NM
ERC-3	NA	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	2.81	NM
East	17.35	1.84	15.51	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
GZ-4	7.20	2.53	4.67	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM (underwater)	NM (underwater)
MW-1-13	23.78	6.02	17.76	4.69	19.09	4.41	19.37	3.52	20.26	6.13	17.65	4.00	19.78	4.43	19.35
MW-2	7.31	2.76	4.55	NM	NM	NM	NM	2.26	5.05	3.90	3.41	0.70	6.61	Destroyed	Destroyed
MW-2-10	15.99	5.41	10.58	2.95	13.04	2.75	13.24	Frozen @ 2.62	Frozen @ 2.63	5.68	10.31	2.81	13.18	3.44	12.55
MW-3	9.48	4.67	4.81	NM	NM	NM	NM	2.65	6.83	NM	NM	2.63	6.85	3.36	6.12
MW-3-14	15.77	4.41	11.36	2.48	13.29	2.50	13.27	2.91	12.86	4.94	10.83	2.60	13.17	3.51	12.26
MW-4	9.08	NM	NM	NM	NM	NM	NM	4.24	4.84	5.88	3.20	4.01	5.07	4.00	5.08
MW-4-18	16.97	3.21	13.76	2.00	14.97	1.89	15.08	1.76	15.21	3.27	13.70	1.96	15.01	2.18	14.79
MW-5	8.17	3.86	4.31	NM	NM	NM	NM	3.89	4.28	4.27	3.90	NM	NM	3.95	4.22
MW-5-16	15.24	6.45	8.79	5.51	9.73	5.09	10.15	5.11	10.13	6.99	8.25	5.40	9.84	5.72	9.52
MW-6	8.76	NM	NM	3.83	4.93	3.56	5.20	3.70	5.06	4.82	3.94	1.48	7.28	1.65	7.11
MW-6-17	13.41	4.14	9.27	3.84	9.57	3.75	9.66	3.70	9.71	4.99	8.42	3.92	9.49	4.10	9.31
MW-7	9.80	NM	NM	4.19	5.61	3.84	5.96	3.66	6.14	5.52	4.28	2.56	7.24	3.00	6.80
MW-7-20	14.96	3.21	11.75	2.12	12.84	1.95	13.01	1.77	13.19	3.28	11.68	2.03	12.93	2.29	12.67
MW-8	11.00	NM	NM	6.51	4.49	6.13	4.87	5.65	5.35	7.18	3.82	5.43	5.57	5.40	5.60
MW-9	9.34	NM	NM	2.63	6.71	2.45	6.89	2.32	7.02	3.82	5.52	2.01	7.33	2.38	6.96
MW-9-15	13.43	5.25	8.18	5.39	8.04	5.25	8.19	5.00	8.43	1.83	11.60	5.17	8.26	5.40	8.03
MW-10	6.59	NM	NM	1.86	4.73	1.57	5.02	1.19	5.40	2.84	3.75	NM (underwater)	NM	NM (underwater)	NM (underwater)
MW-10-14	15.26	6.32	8.94	5.83	9.43	5.68	9.58	5.51	9.75	6.89	8.37	5.50	9.76	6.10	9.16
MW-11-13	9.91	2.74	7.17	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed
MW-11R-14	8.18	NM	NM	1.61	6.57	0.91	7.27	0.81	7.37	2.80	5.38	NM	NM	1.55	6.63
MW-12-19	12.94	7.18	5.76	6.40	6.54	6.22	6.72	5.72	7.22	8.06	4.88	6.93	6.01	7.41	5.53
MW-14-13	15.74	7.28	8.46	4.90	10.84	4.23	11.51	4.14	11.60	NM	NM	4.67	11.07	5.87	9.87
MW-15-12	16.18	3.67	12.51	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-15R-S	15.25	NI	NI	3.70	11.55	3.22	12.03	2.61	12.64	7.37	7.88	5.32	9.93	6.45	8.80
MW-16-14	9.34	5.62	3.72	7.82	1.52	5.57	3.78	5.69	3.65	6.25	3.09	NM	NM	5.82	3.52
MW-18-15	9.91	7.57	2.34	8.22	1.69	7.11	2.80	7.65	2.26	7.98	1.93	8.15	1.76	7.85	2.06
MW-19-15	10.50	8.24	2.26	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)
MW-20-15	9.76	6.86	2.90	7.29	2.47	6.58	3.18	6.65	3.11	7.35	2.41	7.25	2.51	6.80	2.96

TABLE 3.2

GROUNDWATER ELEVATIONS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Reference Elevation (NAD 29) (top of PVC)*	*7/1/1997 Depth (ft. bgs)*	*7/1/1997 Elevation (ft. AMSL)*	*11/20/2003 Depth (ft. bgs)*	*11/20/2003 Elevation (ft. AMSL)*	*11/25/2003 Depth (ft. bgs)*	*11/25/2003 Elevation (ft. AMSL)*	*1/7/2004 Depth (ft. bgs)*	*1/7/2004 Elevation (ft. AMSL)*	*8/19/2005 Depth (ft. bgs)*	*8/19/2005 Elevation (ft. AMSL)*	*5/9/2006 Depth (ft. bgs)*	*5/9/2006 Elevation (ft. AMSL)*	*6/3/2009 Depth (ft. bgs)*	*6/3/2009 Elevation (ft. AMSL)*
MW-21-12	7.83	3.15	4.68	3.10	4.73	2.79	5.04	2.43	5.40	3.91	3.92	0.81	7.02	NM (underwater)	NM (underwater)
MW-22-S	13.92	NI	NI	6.35	7.57	6.19	7.73	5.86	8.06	7.28	6.64	6.14	7.78	6.31	7.61
MW-23-S	17.66	NI	NI	10.82	6.84	9.81	7.85	10.70	6.96	10.88	6.78	9.74	7.92	NM	NM
MW-24-S	11.94	NI	NI	3.63	8.31	3.56	8.38	3.46	8.48	4.95	6.99	3.84	8.10	4.47	7.47
MW-25-S	10.46	NI	NI	3.49	6.97	3.43	7.03	3.54	6.92	5.45	5.01	3.97	6.49	4.53	5.93
MW-26-S	12.72	NI	NI	8.08	4.64	7.85	4.87	7.26	5.46	NM	NM	9.99	2.73	7.90	4.82
MW-27-S	6.99	NI	NI	NM	NM	NI	NI	NI	NI	3.77	3.22	2.47	4.52	2.29	4.70
MW-28-S	10.80	NI	NI	7.99	2.81	7.95	2.85	7.79	3.01	8.19	2.61	7.68	3.12	7.35	3.45
MW-29-S	13.01	NI	NI	7.70	5.31	7.57	5.44	7.35	5.66	8.53	4.48	7.76	5.25	7.80	5.21
MW-30-S	17.19	NI	NI	5.79	11.40	5.74	11.45	5.70	11.49	6.50	10.69	8.85	8.34	5.92	11.27
MW-31-S	15.90	NI	NI	2.44	13.46	2.24	13.66	2.31	13.59	NM	NM	2.61	13.29	NM	NM
MW-31-RS	16.79	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	3.71	13.08
MW-33-S	NA	NI	NI	NI	NI	NI	NI	NI	NI	5.53	NM	NM	NM	2.96	NM
MW-35-S	11.47	NI	NI	NI	NI	NI	NI	NI	NI	7.70	3.77	5.55	5.92	5.61	5.86
MW-36-S	10.72	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	3.61	7.11	3.68	7.04
MW-37-S	15.72	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	5.97	9.75
MW-38-S	9.75	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	7.05	2.70	6.71	3.04
MW-39-S	9.04	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	6.61	2.43	6.25	2.79
OW-2	6.99	NM	NM	NM	NM	NM	NM	1.89	5.10	3.12	3.87	NM (underwater)	NM	NM (underwater)	NM (underwater)
PZ-101	7.31	NM	NM	1.55	5.76	1.51	5.81	NM	NM	NM	NM	NM	NM	NM	NM
PZ-102	7.67	NM	NM	1.81	5.86	1.70	5.97	NM	NM	NM	NM	NM	NM	NM	NM
PZ-103	7.35	NM	NM	1.18	6.17	1.20	6.15	NM	NM	NM	NM	NM	NM	NM	NM
PZ-201	5.95	NM	NM	0.89	5.06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
PZ-202	6.92	NM	NM	1.00	5.92	1.09	5.83	1.52	5.40	NM	NM	NM	NM	NM	NM
PZ-203	6.37	NM	NM	1.09	5.28	0.31	6.06	NM	NM	NM	NM	NM	NM	NM	NM
West	19.53	5.00	14.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Deep Overburden/Weathered Bedrock															
MW-2-34	15.31	4.45	10.86	3.05	12.26	2.95	12.36	2.61	12.70	4.85	10.46	2.73	12.58	3.27	12.04
MW-3-42	15.36	-0.26	15.62	3.00	12.36	2.93	12.43	2.99	12.37	4.65	10.71	2.93	12.43	3.49	11.87
MW-3-I	16.42	NI	NI	3.45	12.97	3.40	13.02	3.39	13.03	5.34	11.08	3.51	12.91	2.93	13.49
MW-12-I	13.05	NI	NI	6.79	6.26	6.77	6.28	6.84	6.21	8.13	4.92	1.06	11.99	7.37	5.68
MW-15R-I	15.12	NI	NI	5.20	9.92	3.60	11.52	3.52	11.60	4.95	10.17	3.61	11.51	3.97	11.15
MW-24-I	12.39	NI	NI	2.99	9.40	2.97	9.42	2.86	9.53	4.06	8.33	3.04	9.35	3.25	9.14
MW-28-I	10.86	NI	NI	NI	NI	NI	NI	NI	NI	8.36	2.50	8.05	2.81	7.63	3.23
MW-29-I	12.75	NI	NI	7.19	5.56	7.04	5.71	6.72	6.03	7.97	4.78	NM	NM	7.07	5.68
MW-32-I	10.24	NI	NI	2.75	7.49	2.69	7.55	2.61	7.63	3.62	6.62	2.76	7.48	2.90	7.34
MW-34-I	9.88	NI	NI	NM	NM	NI	NI	NI	NI	5.95	3.93	4.35	5.53	4.31	5.57
MW-37-I	15.37	NI	NI	NM	NM	NI	NI	NI	NI	2.00	13.37	5.26	10.11	5.40	9.97
MW-38-I	10.27	NI	NI	NM	NM	NI	NI	NI	NI	NI	NI	7.78	2.49	7.38	2.89
MW-39-I	8.77	NI	NI	NM	NM	NI	NI	NI	NI	NI	NI	6.37	2.40	5.98	2.79
MW-40-I	11.81	NI	NI	NM	NM	NI	NI	NI	NI	NI	NI	6.28	5.53	6.21	5.60
MW-41-I	10.76	NI	NI	NM	NM	NI	NI	NI	NI	NI	NI	8.51	2.25	5.64	5.12

TABLE 3.2

GROUNDWATER ELEVATIONS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Reference Elevation (NAD 29) (top of PVC)*	*7/1/1997 Depth (ft. bgs)*	*7/1/1997 Elevation (ft. AMSL)*	*11/20/2003 Depth (ft. bgs)*	*11/20/2003 Elevation (ft. AMSL)*	*11/25/2003 Depth (ft. bgs)*	*11/25/2003 Elevation (ft. AMSL)*	*1/7/2004 Depth (ft. bgs)*	*1/7/2004 Elevation (ft. AMSL)*	*8/19/2005 Depth (ft. bgs)*	*8/19/2005 Elevation (ft. AMSL)*	*5/9/2006 Depth (ft. bgs)*	*5/9/2006 Elevation (ft. AMSL)*	*6/3/2009 Depth (ft. bgs)*	*6/3/2009 Elevation (ft. AMSL)*
Bedrock															
MW-1-102	23.15	NM	NM	7.82	15.33	7.62	15.53	7.34	15.81	8.81	14.34	7.40	15.75	7.54	15.61
MW-3-D	15.68	NI	NI	2.70	12.98	2.54	13.14	2.40	13.28	4.00	11.68	2.70	12.98	4.15	11.53
MW-5-58	15.64	6.72	8.92	6.51	9.13	6.29	9.35	5.56	10.08	10.55	5.09	5.55	10.09	5.32	10.32
MW-6-75	13.86	5.11	8.75	4.42	9.44	4.36	9.50	4.28	9.58	5.50	8.36	4.45	9.41	4.75	9.11
MW-7-80	15.13	3.95	11.18	2.93	12.20	2.80	12.33	2.61	12.52	3.81	11.32	2.71	12.42	2.90	12.23
MW-8-83	12.18	1.95	10.23	0.95	11.23	0.82	11.36	0.61	11.57	NM	NM	0.93	11.25	1.05	11.13
MW-9-70	12.76	4.11	8.65	4.24	8.52	4.15	8.61	3.91	8.85	1.50	11.26	4.10	8.66	4.29	8.47
MW-10-40	14.13	1.21	12.92	1.35	12.78	1.27	12.86	1.02	13.11	2.21	11.92	1.19	12.94	1.10	13.03
MW-12-D	13.09	NM	NM	5.20	7.89	Artesian	Artesian	5.58	7.51	Artesian	Artesian	Water at TOR not flowing	NA	Artesian	Artesian
MW-13-68	9.18	1.11	8.07	4.77	4.41	4.42	4.76	4.00	5.18	5.40	3.78	3.81	5.37	3.74	5.44
MW-15R-D	13.63	NI	NI	1.96	11.67	1.82	11.81	1.65	11.98	2.88	10.75	1.81	11.82	2.05	11.58
MW-16-53	9.99	4.35	5.64	7.16	2.83	5.44	4.55	5.01	4.98	7.58	2.41	5.57	4.42	5.28	4.71
MW-17-69	9.91	5.44	4.47	5.64	4.27	5.25	4.66	4.52	5.39	6.12	3.79	4.94	4.97	4.73	5.18
MW-18-39	9.36	7.23	2.13	7.80	1.56	7.68	1.68	7.10	2.26	7.42	1.94	8.60	0.76	7.30	2.06
MW-19-39	10.50	8.49	2.01	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)	NM (buried)
MW-20-40	9.54	6.73	2.81	7.03	2.51	6.34	3.20	6.46	3.08	7.02	2.52	7.02	2.52	6.58	2.96
MW-22-D	13.26	NI	NI	6.49	6.77	6.43	6.84	6.00	7.26	7.52	5.74	6.15	7.11	6.30	6.96
MW-23-D	16.08	NI	NI	9.81	6.27	8.63	7.45	9.59	6.49	9.41	6.67	8.11	7.97	NM	NM
MW-24-D	11.47	NI	NI	0.02	11.45	Artesian	Artesian	0.01	11.46	0.82	10.65	Artesian	Artesian	Artesian	Artesian
MW-25-D	10.63	NI	NI	2.48	8.15	2.42	8.22	2.43	8.20	4.25	6.38	2.89	7.74	3.27	7.36
MW-27-D	7.03	NI	NI	NI	NI	NI	NI	NI	NI	3.86	3.17	2.71	4.32	2.47	4.56
MW-28-D	11.23	NI	NI	9.29	1.94	8.26	2.97	9.15	2.08	8.85	2.38	8.82	2.41	8.40	2.83
MW-29-D	10.44	NI	NI	2.88	7.56	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian
MW-30-D	16.91	NI	NI	2.71	14.20	2.69	14.22	2.66	14.25	3.75	13.16	2.67	14.24	2.88	14.03
MW-31-D	15.45	NI	NI	2.39	13.06	Artesian	Artesian	Artesian - Frozen	Artesian - Frozen	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian
PW-X	17.12	NM	NM	1.69	15.43	1.57	15.55	Frozen @ 1.06	Frozen @ 1.06	2.37	14.75	1.53	15.59	NM	NM
PW-Y	22.35	NM	NM	6.82	15.53	6.65	15.70	6.41	15.94	7.48	14.87	6.20	16.15	NM	NM

Notes:

NM - not measured
NI - not installed

TABLE 3.3

FIELD SAMPLE KEY
ADDENDUM SRFI REPORT
ZENECA INC.
DIGHTON, MASSACHUSETTS

Sample I.D.	Location I.D.	Collection Date (mm/dd/yy)	Analysis/Parameters VOCs	SVOCs	PCBs (aroclors)	PCBs (homologues)	Carbon Dioxide	TAL Metals (total and dissolved)	Nitrite, Nitrate, Sulfate, Ammonia, Alkalinity	Hardness, pH TOC	Comments
Groundwater											
GW-15620-060909-RR-001	MW-1-13	6/9/2009	X	X	X		X	X	X		
GW-15620-061809-MM-014	MW-2-10	6/18/2009	X	X	X		X	X	X		
GW-15620-072109-RW-054	MW-3	7/21/2009	X	X	X		X	X	X		
GW-15620-061509-RR-017	MW-3-14	6/15/2009	X	X	X		X	X	X		
GW-15620-072109-RW-052	MW-4	7/21/2009	X	X	X		X	X	X		
GW-15620-061009-RR-005	MW-4-18	6/10/2009	X	X	X		X	X	X		
GW-15620-072209-RR-079	MW-5	7/22/2009	X	X	X		X	X	X		
GW-15620-063009-RR-031	MW-5-16	6/30/2009	X	X	X		X	X	X		
GW-15620-072209-RW-074	MW-6	7/22/2009	X	X	X		X	X	X		
GW-15620-061709-MM-010	MW-6-17	6/17/2009	X	X	X		X	X	X		
GW-15620-072309-RW-083	MW-7	7/23/2009	X	X	X		X	X	X		
GW-15620-072309-RW-085	MW-7	7/23/2009	X	X	X		X	X	X		Duplicate of GW-15620-072309-RW-083
GW-15620-061009-RR-009	MW-7-20	6/10/2009	X	X	X		X	X	X		
GW-15620-071009-DS-038	MW-8	7/10/2009	X	X	X		X	X	X		
GW-15620-072309-RR-081	MW-9	7/23/2009	X	X	X		X	X	X		
GW-15620-070609-DS-018	MW-9-15	7/6/2009	X	X	X		X	X	X		
GW-15620-070609-DS-020	MW-9-15	7/6/2009	X	X	X		X	X	X		Duplicate of GW-15620-070609-DS-020
GW-15620-070609-RR-039	MW-10-14	7/6/2009	X	X	X		X	X	X		
GW-15620-100709-SD-003	MW-10-14	10/7/2009	X	X	X		X	X	X		
GW-15620-072309-RR-087	MW-11R-14	7/23/2009	X	X	X		X	X	X		
GW-15620-072209-RR-075	MW-12-19	7/22/2009	X	X	X		X	X	X		
GW-15620-062509-RR-029	MW-14-13	6/25/2009	X	X	X		X	X	X		
GW-15620-061109-RR-013	MW-15R-S	6/11/2009	X	X	X		X	X	X		
GW-15620-072109-RW-044	MW-16-14	7/21/2009	X	X	X		X	X	X		
GW-15620-070809-DS-030	MW-18-15	7/8/2009	X	X	X		X	X	X		
GW-15620-070809-RR-051	MW-20-15	7/8/2009	X	X	X		X	X	X		
GW-15620-070909-DS-034	MW-22-S	7/9/2009	X	X	X		X	X	X		
GW-15620-061809-MM-012	MW-2-34	6/18/2009	X	X	X		X	X	X		
GW-15620-062409-RR-025	MW-3-I	6/24/2009	X	X	X		X	X	X		
GW-15620-062309-RR-021	MW-3-42	6/23/2009	X	X	X		X	X	X		
GW-15620-072209-RR-073	MW-12-I	7/22/2009	X	X	X		X	X	X		
GW-15620-061109-RR-015	MW-15R-I	6/11/2009	X	X	X		X	X	X		
GW-15620-060609-MM-004	MW-24-I	6/6/2009	X	X	X		X	X	X		
GW-15620-070709-RR-047	MW-28-I	7/7/2009	X	X	X		X	X	X		
GW-15620-072109-RR-067	MW-29-I	7/21/2009	X	X	X		X	X	X		MS/MSD
GW-15620-060909-RR-003	MW-1-102	6/9/2009	X	X	X		X	X	X		
GW-15620-062309-RR-023	MW-3-D	6/23/2009	X	X	X		X	X	X		
GW-15620-070609-RR-033	MW-5-58	7/6/2009	X	X	X		X	X	X		
GW-15620-061709-MM008	MW-6-75	6/17/2009	X	X	X		X	X	X		
GW-15620-061009-RR-007	MW-7-80	6/10/2009	X	X	X		X	X	X		
GW-15620-061009-RR-011	MW-7-80	6/10/2009	X	X	X		X	X	X		Duplicate of GW-15620-061009-RR-007
GW-15620-070109-MM-016	MW-8-83	7/1/2009	X	X	X		X	X	X		MS/MSD
GW-15620-070609-DS-022	MW-9-70	7/6/2009	X	X	X		X	X	X		
GW-15620-070609-RR-037	MW-10-40	7/6/2009	X	X	X		X	X	X		
GW-15620-100709-SD-004	MW-10-40	10/7/2009	X	X	X		X	X	X		
GW-15620-072209-RR-071	MW-12-D	7/22/2009	X	X	X		X	X	X		
GW-15620-072209-RW-076	MW-13-68	7/22/2009	X	X	X		X	X	X		
GW-15620-061509-RR-019	MW-15R-D	6/15/2009	X	X	X		X	X	X		
GW-15620-072109-RW-042	MW-16-53	7/21/2009	X	X	X		X	X	X		

TABLE 3.3

FIELD SAMPLE KEY
ADDENDUM SRFI REPORT
ZENECA INC.
DIGHTON, MASSACHUSETTS

Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*Analysis/Parameters*								*Comments*
			VOCs	*SVOCs*	*PCBs (aroclors)*	*PCBs (homologues)*	*Carbon Dioxide*	*TAL Metals (total and dissolved)*	*Nitrite, Nitrate, Sulfate, Ammonia, Alkalinity*	*Hardness, pH TOC*	
GW-15620-070909-RR-053	MW-23-S	7/9/2009	X	X	X		X	X	X		
GW-15620-060909-MM-002	MW-24-S	6/6/2009	X	X	X		X	X	X		
GW-15620-072209-RW-068	MW-25-S	7/22/2009	X	X	X		X	X	X		
GW-15620-071009-RR-061	MW-26-S	7/10/2009	X	X	X		X	X	X		
GW-15620-072109-RW-048	MW-27-S	7/21/2009	X	X	X		X	X	X		
GW-15620-072109-RW-050	MW-27-S	7/21/2009	X	X	X		X	X	X		Duplicate of GW-15620-072109-RW-048
GW-15620-070709-RR-045	MW-28-S	7/7/2009	X	X	X		X	X	X		
GW-15620-071009-RR-065	MW-29-S	7/10/2009	X	X	X		X	X	X		
GW-15620-072209-RW-072	MW-30-S	7/22/2009	X	X	X		X	X	X		
GW-15620-072009-RW-062	MW-31R-S	7/20/2009	X	X	X		X	X	X		
GW-15620-072009-RR-091	MW-33-S	7/20/2009	X	X	X		X	X	X		
GW-15620-071009-RR-059	MW-35-S	7/10/2009	X	X	X		X	X	X		
GW-15620-072309-RW-082	MW-36-S	7/23/2009	X	X	X		X	X	X		
GW-15620-072309-RW-086	MW-37-S	7/23/2009	X	X	X		X	X	X		
GW-15620-100609-SD-001	MW-37-S	10/6/2009	X	X	X		X	X	X		
GW-15620-070709-DS-028	MW-38-S	7/7/2009	X	X	X		X	X	X		
GW-15620-070709-RR-043	MW-39-S	7/7/2009	X	X	X		X	X	X		MS/MSD
GW-15620-081209-RR-097	TW-1	8/12/2009	X	X	X		X	X	X		
GW-15620-081309-RR-099	TW-4	8/13/2009	X	X	X		X	X	X		
GW-15620-080409-RR-095	TW-3	8/4/2009	X	X	X		X	X	X		
GW-15620-072309-RR-089	GP-412	7/23/2009	X	X	X		X	X	X		
GW-15620-072209-RW-064	ERC-1	7/22/2009	X	X	X		X	X	X		
GW-15620-072209-RW-060	ERC-2	7/22/2009	X	X	X		X	X	X		
GW-15620-072209-RW-058	ERC-3	7/22/2009	X	X	X		X	X	X		
GW-15620-072309-RW-084	MW-32-I	7/23/2009	X	X	X		X	X	X		
GW-15620-072309-RW-078	MW-34-I	7/23/2009	X	X	X		X	X	X		MS/MSD
GW-15620-062409-RR-027	MW-37-I	6/24/2009	X	X	X		X	X	X		MS/MSD
GW-15620-100609-SD-002	MW-37-I	10/6/2009	X	X	X		X	X	X		
GW-15620-070709-DS-024	MW-38-I	7/7/2007	X	X	X		X	X	X		
GW-15620-070709-DS-026	MW-38-I	7/7/2007	X	X	X		X	X	X		Duplicate of GW-15620-070709-DS-024
GW-15620-070709-RR-041	MW-39-I	7/7/2009	X	X	X		X	X	X		
GW-15620-071009-DS-040	MW-40-I	7/10/2009	X	X	X		X	X	X		
GW-15620-072009-RR-063	MW-41-I	7/20/2009	X	X	X		X	X	X		
GW-15620-072309-RW-080	MW-17-66	7/23/2009	X	X	X		X	X	X		
GW-15620-070809-DS-032	MW-18-39	7/8/2009	X	X	X		X	X	X		
GW-15620-070909-RR-057	MW-20-40	7/9/2009	X	X	X		X	X	X		
GW-15620-071009-DS-036	MW-22-D	7/10/2009	X	X	X		X	X	X		
GW-15620-070909-RR-055	MW-23-D	7/9/2009	X	X	X		X	X	X		
GW-15620-061109-MM-006	MW-24-D	6/11/2009	X	X	X		X	X	X		
GW-15620-072209-RW-056	MW-25-D	7/22/2009	X	X	X		X	X	X		
GW-15620-072209-RW-066	MW-25-D	7/22/2009	X	X	X		X	X	X		Duplicate of GW-15620-072209-RW-056
GW-15620-072109-RW-046	MW-27-D	7/21/2009	X	X	X		X	X	X		
GW-15620-070809-RR-049	MW-28-D	7/8/2009	X	X	X		X	X	X		
GW-15620-072109-RR-069	MW-29-D	7/21/2009	X	X	X		X	X	X		
GW-15620-072209-RW-070	MW-30-D	7/22/2009	X	X	X		X	X	X		
GW-15620-070109-RR-035	MW-31-D	7/1/2009	X	X	X		X	X	X		
GW-15620-072209-RR-077	Rinse Blank	7/22/2009	X	X	X		X	X	X		Rinse Blank
GW-15620-072709-RR-093	Rinse Blank	7/27/2009	X	X	X		X	X	X		Rinse Blank
Trip Blank	-	6/9/2009	X	-	-		-	-	-		
Trip Blank	-	6/10/2009	X	-	-		-	-	-		

TABLE 3.3

FIELD SAMPLE KEY
ADDENDUM SRFI REPORT
ZENECA INC.
DIGHTON, MASSACHUSETTS

Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*Analysis/Parameters* *VOCs*	*SVOCs*	*PCBs (aroclors)*	*PCBs (homologues)*	*Carbon Dioxide*	*TAL Metals (total and dissolved)*	*Nitrite, Nitrate, Sulfate, Ammonia, Alkalinity*	*Hardness, pH TOC*	*Comments*
Trip Blank	-	6/11/2009	X	-	-		-	-	-		
Trip Blank	-	6/15/2009	X	-	-		-	-	-		
Trip Blank	-	6/18/2009	X	-	-		-	-	-		
Trip Blank	-	6/24/2009	X	-	-		-	-	-		
Trip Blank	-	6/25/2009	X	-	-		-	-	-		
Trip Blank	-	6/30/2009	X	-	-		-	-	-		
Trip Blank	-	7/1/2009	X	-	-		-	-	-		
Trip Blank	-	7/6/2009	X	-	-		-	-	-		
Trip Blank	-	7/7/2009	X	-	-		-	-	-		
Trip Blank	-	7/8/2009	X	-	-		-	-	-		
Trip Blank	-	7/10/2009	X	-	-		-	-	-		
Trip Blank	-	7/20/2009	X	-	-		-	-	-		
Trip Blank	-	7/21/2009	X	-	-		-	-	-		
Trip Blank	-	7/22/2009	X	-	-		-	-	-		
Trip Blank	-	7/23/2009	X	-	-		-	-	-		
Surface Water											
SW-15620-080409-RR-002	SW-L1	8/4/2009	X	X	X		-	X[1]	-	X	
SW-15620-080409-RR-001	SW-L2	8/4/2009	X	X	X		-	X[1]	-	X	
SW-15620-080409-RR-003	SW-L3	8/4/2009	X	X	X		-	X[1]	-	X	
SW-15620-080409-RR-004	SW-L4	8/4/2009	X	X	X		-	X[1]	-	X	
SW-15620-121208-RR-001	DW-1	12/12/2009	X	X	X		-	X[1]	-	hardness, pH	
Surface Soil											
SS-15620-080409-RR-001	SS-SS1	8/4/2009	X	X	X			X[2]			
SS-15620-080409-RR-002	SS-SS2	8/4/2009	X	X	X			X[2]			
SS-15620-080409-RR-003	SS-SS3	8/4/2009	X	X	X			X[2]			
SS-15620-080409-RR-004	SS-SS4	8/4/2009	X	X	X	X		X[2]			
SS-15620-080509-RR-012	SS-L1	8/5/2009	X	X	X	X		X[2]			
SS-15620-080509-RR-010	SS-L2	8/5/2009	X	X	X	X		X[2]			
SS-15620-080509-RR-011	SS-L3	8/5/2009	X	X	X	X		X[2]			
SS-15620-080509-RR-009	SS-L4	8/5/2009	X	X	X			X[2]			
SS-15620-080509-RR-008	SS-L5	8/5/2009	X	X	X			X[2]			
SS-15620-080509-RR-007	SS-L6	8/5/2009	X	X	X	X		X[2]			
SS-15620-080409-RR-005	SS-L7	8/4/2009	X	X	X			X[2]			
SS-15620-080409-RR-006	SS-L8	8/4/2009	X	X	X			X[2]			

Notes:

-	Not Applicable.
MS	Matrix Spike.
MSD	Matrix Spike Duplicate.
PCBs	Polychlorinated Biphenyls.
SVOCs	Semi-Volatile Organic Compounds.
TAL	Target Analyte List.
VOCs	Volatile Organic Compounds.
1	Dissolved metals only
2	Total metals only

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*ERC-1*	*ERC-2*	*ERC-3*	*GP-412*	*MW-1-13*	*MW-1-102*
Sample ID:			*GW-15620-072209-RW-064*	*GW-15620-072209-RW-060*	*GW-15620-072209-RW-058*	*GW-15620-072309-RR-089*	*GW-15620-060909-RR-001*	*GW-15620-060909-RR-003*
Sample Date:			*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/23/2009*	*6/9/2009*	*6/9/2009*
Parameter	***Units***	***Max***						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (0.29)	ND (0.29)	ND (0.29)	ND (86)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (60)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (60)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	ug/L	0.52 J	ND (0.12)	ND (0.12)	ND (0.12)	ND (35)	ND (0.12)	ND (0.12)
1,1-Dichloroethene	ug/L	ND	ND (0.30)	ND (0.30)	ND (0.30)	ND (89)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	ug/L	1300	ND (0.15) UJ	ND (0.15)	ND (0.15)	1300	ND (0.15)	ND (0.15)
1,2,4-Trichlorobenzene	ug/L	6300	ND (0.27)	ND (0.27)	ND (0.27)	5300	ND (0.27)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (0.14) UJ	ND (0.14)	ND (0.14)	ND (42)	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (0.18)	ND (0.18)	ND (0.18)	ND (54)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	ug/L	8300	ND (0.15)	0.32 J	1.2	350	ND (0.15)	ND (0.15)
1,2-Dichloroethane	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (64)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	ug/L	ND	ND (0.095)	ND (0.095)	ND (0.095)	ND (28)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	ug/L	1900	ND (0.11)	ND (0.11)	ND (0.11)	1900	ND (0.11)	ND (0.11)
1,4-Dichlorobenzene	ug/L	3100	ND (0.21)	ND (0.21)	0.41 J	3100	ND (0.21)	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (0.55)	ND (0.55)	0.62 J	ND (160)	ND (0.55)	ND (0.55)
2-Hexanone	ug/L	ND	ND (0.16)	ND (0.16)	ND (0.16)	ND (48)	ND (0.16)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (0.53)	ND (0.53)	ND (0.53)	ND (160)	ND (0.53)	ND (0.53)
Acetone	ug/L	7.4 J	5.1	ND (2.5)	ND (2.5)	ND (750)	ND (2.5)	ND (2.5)
Benzene	ug/L	230 J	0.14 J	ND (0.11)	0.13 J	35 J	ND (0.11)	ND (0.11)
Bromodichloromethane	ug/L	4.2	ND (0.13)	ND (0.13)	ND (0.13)	ND (39)	ND (0.13)	ND (0.13)
Bromoform	ug/L	ND	ND (0.19) UJ	ND (0.19)	ND (0.19)	ND (57)	ND (0.19)	ND (0.19)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (0.31) UJ	ND (0.31) UJ	ND (0.31) UJ	ND (94)	ND (0.31)	ND (0.31)
Carbon disulfide	ug/L	2.8	ND (0.21)	ND (0.21)	ND (0.21)	ND (64)	ND (0.21)	ND (0.21)
Carbon tetrachloride	ug/L	ND	ND (0.14)	ND (0.14)	ND (0.14)	ND (41)	ND (0.14)	ND (0.14)
Chlorobenzene	ug/L	19000	1.5	0.53 J	2.5	6700	ND (0.14)	ND (0.14)
Chloroethane	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (64)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	ug/L	23	ND (0.17)	ND (0.17)	ND (0.17)	ND (51)	ND (0.17)	ND (0.17)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (0.28)	ND (0.28)	ND (0.28)	ND (85)	ND (0.28) UJ	ND (0.28) UJ
cis-1,2-Dichloroethene	ug/L	49	ND (0.24)	ND (0.24)	ND (0.24)	ND (71)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.19)	ND (56)	ND (0.19)	ND (0.19)
Cyclohexane	ug/L	9.8	ND (0.25)	ND (0.25)	ND (0.25)	ND (76)	ND (0.25)	ND (0.25)
Dibromochloromethane	ug/L	0.39 J	ND (0.14)	ND (0.14)	ND (0.14)	ND (41)	ND (0.14)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (0.19)	ND (0.19) UJ	ND (0.19) UJ	ND (58)	ND (0.19) UJ	ND (0.19) UJ
Ethylbenzene	ug/L	15 J	ND (0.23)	ND (0.23)	0.24 J	ND (68)	ND (0.23)	ND (0.23)
Isopropylbenzene	ug/L	6.2 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (49)	ND (0.16)	ND (0.16)
Methyl acetate	ug/L	ND	ND (0.14)	ND (0.14)	ND (0.14)	ND (41)	ND (0.14)	ND (0.14)
Methyl cyclohexane	ug/L	54	ND (0.26)	ND (0.26)	ND (0.26)	ND (78)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	ug/L	12 J	0.61 J	ND (0.18)	ND (0.18)	ND (55)	ND (0.18)	ND (0.18)
Methylene chloride	ug/L	170 J	0.25 J	ND (0.15)	ND (0.15)	130 J	ND (0.15)	ND (0.15)
Styrene	ug/L	ND	ND (0.097)	ND (0.097)	ND (0.097)	ND (29)	ND (0.097)	ND (0.097)
Tetrachloroethene	ug/L	ND	ND (0.15)	ND (0.15)	ND (0.15)	ND (45)	ND (0.15)	ND (0.15)
Toluene	ug/L	6100	0.22 J	0.77 J	7.1	ND (45)	ND (0.15)	ND (0.15)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (51)	ND (0.17)	ND (0.17)
trans-1,3-Dichloropropene	ug/L	ND	ND (0.15)	ND (0.15)	ND (0.15)	ND (44)	ND (0.15)	ND (0.15)
Trichloroethene	ug/L	480	ND (0.25) U	0.34 J	ND (0.14)	ND (43)	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (0.20)	ND (0.20) UJ	ND (0.20) UJ	ND (60)	ND (0.20)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (0.32)	ND (0.32)	ND (0.32)	ND (96)	ND (0.32)	ND (0.32)
Vinyl chloride	ug/L	11	ND (0.23)	ND (0.23)	ND (0.23)	ND (68)	ND (0.23)	ND (0.23)
Xylene (total)	ug/L	36 J	ND (0.49)	ND (0.49)	0.96 J	ND (150)	ND (0.49)	ND (0.49)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*ERC-1*	*ERC-2*	*ERC-3*	*GP-412*	*MW-1-13*	*MW-1-102*
Sample ID:			*GW-15620-072209-RW-064*	*GW-15620-072209-RW-060*	*GW-15620-072209-RW-058*	*GW-15620-072309-RR-089*	*GW-15620-060909-RR-001*	*GW-15620-060909-RR-003*
Sample Date:			*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/23/2009*	*6/9/2009*	*6/9/2009*
Parameter	***Units***	***Max***						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.33)
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.14)	ND (0.15)	ND (0.15)	4.6 J	ND (0.15)	ND (0.15)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.085)	ND (0.087)	ND (0.089)	ND (0.091)	ND (0.090)	ND (0.087)
2,4-Dichlorophenol	ug/L	7.7	ND (0.13)	ND (0.13)	ND (0.13)	7.7	ND (0.13)	ND (0.13)
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.076)	ND (0.077)	ND (0.079)	ND (0.080)	ND (0.080)	ND (0.077)
2,4-Dinitrophenol	ug/L	680	ND (5.8)	ND (5.9)	ND (6.0)	ND (6.1)	ND (6.1)	ND (5.9)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	ug/L	ND	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.18)
2-Chloronaphthalene	ug/L	20	ND (0.14)	ND (0.15)	ND (0.15)	20	ND (0.15)	ND (0.15)
2-Chlorophenol	ug/L	27 J	ND (0.20)	ND (0.20)	ND (0.21)	8.8 J	ND (0.21)	ND (0.20)
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.15)
2-Methylphenol	ug/L	15 J	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.13)
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)
2-Nitrophenol	ug/L	2.3 J	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.13)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.36)	ND (0.36)	ND (0.35)
3-Nitroaniline	ug/L	0.98 J	ND (0.24)	ND (0.25)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.25)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.3)	ND (7.5)	ND (7.6)	ND (7.8)	ND (7.7)	ND (7.5)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.24)	ND (0.24)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.24)
4-Chloroaniline	ug/L	4.2 J	ND (1.0)	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.0)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.098)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
4-Methylphenol	ug/L	16 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.17)
4-Nitroaniline	ug/L	0.80 J	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.23)	ND (0.22)
4-Nitrophenol	ug/L	ND	ND (6.6)	ND (6.8)	ND (6.9)	ND (7.0)	ND (7.0)	ND (6.8)
Acenaphthene	ug/L	1.5 J	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Acenaphthylene	ug/L	0.80 J	ND (0.080)	ND (0.081)	ND (0.083)	ND (0.085)	ND (0.084)	ND (0.081)
Acetophenone	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.21)
Aniline	ug/L	2900	ND (0.38)	ND (0.39)	ND (0.40)	230	ND (0.40)	ND (0.39)
Anthracene	ug/L	ND	ND (0.98)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Atrazine	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.19)
Benzaldehyde	ug/L	9.2 J	ND (0.47)	ND (0.48)	ND (0.49)	ND (0.50)	ND (0.50)	ND (0.48)
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	3.3	ND (0.17)	1.2 J	ND (0.17)	ND (0.17)
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	2.6	ND (0.11)	1.0 J	ND (0.12)	ND (0.11)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.15)	3.1	ND (0.16)	1.1 J	ND (0.16)	ND (0.16)
Benzo(g,h,i)perylene	ug/L	7	ND (0.081)	4.0	ND (0.085)	1.5 J	ND (0.086)	ND (0.083)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.15)	3.8	ND (0.16)	1.1 J	ND (0.16)	ND (0.16)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.13)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.25)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.25)
bis(2-Ethylhexyl)phthalate	ug/L	14	3.3 J	5.6 J	ND (0.45)	4.2 J	ND (0.46)	ND (0.44)
Butyl benzylphthalate	ug/L	ND	ND (2.9)	ND (2.9)	ND (3.0)	ND (3.1)	ND (3.0)	ND (2.9)
Caprolactam	ug/L	36 J	ND (6.8)	ND (6.9)	ND (7.1)	ND (7.2)	ND (7.2)	ND (6.9)
Carbazole	ug/L	1.0 J	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.13)
Chrysene	ug/L	4.3	ND (0.10)	4.3	ND (0.11)	1.4 J	ND (0.11)	ND (0.10)
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	5.0	ND (0.12)	3.1	ND (0.13)	ND (0.12)
Dibenzofuran	ug/L	0.92 J	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
Diethyl phthalate	ug/L	30	6.0 J	5.2 J	2.7 J	5.2 J	ND (0.44)	ND (0.43)
Dimethyl phthalate	ug/L	ND	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.13)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.28)	0.89 J	ND (0.29)	ND (0.30)	ND (0.30)	ND (0.29)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*ERC-1*	*ERC-2*	*ERC-3*	*GP-412*	*MW-1-13*	*MW-1-102*
Sample ID:			*GW-15620-072209-RW-064*	*GW-15620-072209-RW-060*	*GW-15620-072209-RW-058*	*GW-15620-072309-RR-089*	*GW-15620-060909-RR-001*	*GW-15620-060909-RR-003*
Sample Date:			*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/23/2009*	*6/9/2009*	*6/9/2009*
Parameter	***Units***	***Max***						
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)
Fluoranthene	ug/L	1.1 J	ND (0.094)	0.71 J	ND (0.098)	0.44 J	ND (0.099)	ND (0.096)
Fluorene	ug/L	0.95 J	ND (0.093)	ND (0.095)	ND (0.097)	0.22 J	ND (0.098)	ND (0.095)
Hexachlorobenzene	ug/L	0.89 J	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.17)
Hexachlorobutadiene	ug/L	ND	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)
Hexachloroethane	ug/L	ND	ND (0.072)	ND (0.074)	ND (0.075)	ND (0.077)	ND (0.076)	ND (0.074)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.15)	5.6	ND (0.16)	3.7	ND (0.16)	ND (0.15)
Isophorone	ug/L	0.93 J	ND (0.27)	ND (0.28)	ND (0.28)	ND (0.29)	ND (0.29)	ND (0.28)
Naphthalene	ug/L	2200	ND (0.26)	ND (0.27)	ND (0.27)	260	ND (0.28)	ND (0.27)
Nitrobenzene	ug/L	15000	ND (0.17)	ND (0.17)	ND (0.18)	7.1	ND (0.18)	ND (0.17)
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.36)	ND (0.37)	ND (0.38)	ND (0.39)	ND (0.38)	ND (0.37)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.46)	ND (0.47)	ND (0.48)	ND (0.49)	ND (0.48)	ND (0.47)
Pentachlorophenol	ug/L	ND	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.9)	ND (1.9)	ND (1.8)
Phenanthrene	ug/L	1.2 J	ND (0.27)	ND (0.27)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.27)
Phenol	ug/L	0.83 J	ND (0.22)	ND (0.23)	ND (0.23)	ND (0.24)	ND (0.23)	ND (0.23)
Pyrene	ug/L	1.4 J	ND (0.10)	0.65 J	ND (0.11)	0.41 J	ND (0.11)	ND (0.11)
Metals								
Aluminum	ug/L	3440	809	ND (37.8) U	2280	ND (9.7)	ND (88.1) U	ND (108) U
Aluminum (Dissolved)	ug/L	1170	ND (37.0) U	ND (37.2) U	ND (50.0) U	ND (9.7)	ND (66.5) U	ND (80.6) U
Antimony	ug/L	2.3 J	ND (1.3)	1.5 J	2.1 J	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	ug/L	436	13.1	ND (2.7)	4.3 J	180	ND (2.7)	6.6 J
Arsenic (Dissolved)	ug/L	448	13.8	3.4 J	4.0 J	191	ND (2.7)	6.8 J
Barium	ug/L	626	57.1 J	42.5 J	23.7 J	136 J	5.3 J	16.8 J
Barium (Dissolved)	ug/L	679	50.0 J	45.0 J	25.0 J	143 J	5.4 J	16.2 J
Beryllium	ug/L	ND	ND (0.25) U	ND (0.30) U	ND (0.42) U	ND (0.23)	ND (0.47) U	ND (0.38) U
Beryllium (Dissolved)	ug/L	ND	ND (0.31) U	ND (0.32) U	ND (0.35) U	ND (0.23)	ND (0.50) U	ND (0.52) U
Cadmium	ug/L	8.3	ND (0.13)	0.18 J	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	ug/L	219000	79500	69400	37600 J	24000	11500	21700
Calcium (Dissolved)	ug/L	226000	76700	71500	86500 J	25400	11100	21700
Chromium	ug/L	90.6	ND (2.2) U	ND (0.57)	ND (2.6) U	ND (0.57)	ND (0.57)	1.1 J
Chromium Total (Dissolved)	ug/L	17.4	ND (1.1) U	ND (0.57)	ND (0.61) U	ND (0.57)	ND (0.57)	0.76 J
Cobalt	ug/L	113	8.5 J	ND (0.40)	1.1 J	ND (0.40)	ND (0.40)	ND (0.40)
Cobalt (Dissolved)	ug/L	108	6.7 J	ND (0.40)	1.2 J	ND (0.40)	ND (0.40)	ND (0.40)
Copper	ug/L	294	ND (2.7)	4.0 J	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	ug/L	54.6	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Iron	ug/L	94400	6980	45.5 J	2740	7750	20.4 J	26.9 J
Iron (Dissolved)	ug/L	97700	7370	307 J	2460	7870	ND (11.9)	ND (11.9)
Lead	ug/L	70.9	2.7 J	2.9 J	9.1	2.2 J	ND (1.3)	ND (1.3)
Lead (Dissolved)	ug/L	41.2	ND (1.3)	ND (1.3)	ND (1.3)	1.6 J	ND (1.3)	ND (1.3)
Magnesium	ug/L	265000	5930	3040 J	3380 J	3910 J	1170 J	1250 J
Magnesium (Dissolved)	ug/L	261000	5420	3260 J	6230 J	4130 J	1150 J	1350 J
Manganese	ug/L	14300	4630	48.8 J	484 J	3070	2.4 J	26.6
Manganese (Dissolved)	ug/L	14100	3850	170 J	1200 J	3150	1.4 J	27.3
Mercury	ug/L	6.9	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.056) U	ND (0.057) U
Mercury (Dissolved)	ug/L	0.38	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.049) U	ND (0.048) U
Nickel	ug/L	148	8.0 J	5.6 J	2.5 J	ND (1.6)	ND (1.6)	ND (1.6)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*ERC-1*	*ERC-2*	*ERC-3*	*GP-412*	*MW-1-13*	*MW-1-102*
Sample ID:			*GW-15620-072209-RW-064*	*GW-15620-072209-RW-060*	*GW-15620-072209-RW-058*	*GW-15620-072309-RR-089*	*GW-15620-060909-RR-001*	*GW-15620-060909-RR-003*
Sample Date:			*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/23/2009*	*6/9/2009*	*6/9/2009*
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	4.3 J	5.4 J	2.1 J	ND (1.6)	ND (1.6)	ND (1.6)
Potassium	ug/L	121000	7200	2190 J	8090 J	3580 J	1050 J	2920 J
Potassium (Dissolved)	ug/L	118000 J	7100	2420 J	12800 J	3830 J	ND (1060) U	2760 J
Selenium	ug/L	3.6 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	ND (3.0)	ND (3.0)	3.4 J	ND (3.0)	ND (3.0)
Silver	ug/L	5.5	0.74 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Silver (Dissolved)	ug/L	3.2 J	1.0 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	38900	27700	15300 J	14800	3680 J	20300
Sodium (Dissolved)	ug/L	2250000	40100	28600	29300 J	15700	3630 J	19100
Thallium	ug/L	6.1 J	ND (2.4)	ND (2.4)	ND (2.4)	3.2 J	ND (2.4)	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	ND (2.4)	ND (2.4)	ND (2.4)	6.1 J	ND (2.6) U	ND (3.4) U
Vanadium	ug/L	28.8 J	2.3 J	ND (1.9)	5.5 J	ND (1.9)	ND (1.9)	4.0 J
Vanadium (Dissolved)	ug/L	29.2 J	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	2.5 J
Zinc	ug/L	254	ND (23.0) U	ND (20.9) U	ND (19.9) U	ND (2.5)	ND (5.4) U	ND (4.1) U
Zinc (Dissolved)	ug/L	170	ND (5.4) U	ND (14.2) U	ND (4.3) U	ND (2.5)	ND (4.6) U	ND (5.0) U
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0024)	ND (0.0024)	ND (0.0025)	ND (0.0024)	ND (0.0025)	ND (0.0024)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0025)	ND (0.0024)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0028)	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0028)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	ND (0.0018)	0.033	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.0018)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0023)	0.0084 J
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0022)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
Gases								
Carbon dioxide	ug/L	160000	26000	16000	20000	14000	9600	ND (210)
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	237	203	124	105	ND (0.41)	43.8
Ammonia	mg/L	11.1	5.5	ND (0.48) U	0.79	4.1	0.23	0.20
Chloride	mg/L	3900	79.4	33.1	14.7	17.3 J	3.7	11.3
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	7.0	7.9	8.7	4.3	1.6	0.91 J
Nitrate (as N)	mg/L	6.5	ND (0.0077)	ND (0.0077)	0.68	ND (0.0077)	1.3	0.70
Nitrite (as N)	mg/L	1.5	0.085	0.050	ND (0.0032)	ND (0.0032)	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	601	ND (0.44) U	6.9	3.7	5.8	64.2	35.4

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-2-10*	*MW-3*	*MW-3*	*MW-3-14*	*MW-3-42*	*MW-3-D*
Sample ID:			*GW-15620-061809-MM-014*	*GW-15620-072109-RW-54*	*GW-15620-072209-RW-054*	*GW-15620-061509-RR-017*	*GW-15620-062309-RR-021*	*GW-15620-062309-RR-023*
Sample Date:			*6/18/2009*	*7/21/2009*	*7/22/2009*	*6/15/2009*	*6/23/2009*	*6/23/2009*
Parameter	***Units***	***Max***						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (0.29)	ND (0.29)	-	ND (0.29)	ND (72)	ND (0.29)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (0.20)	ND (0.20)	-	ND (0.20)	ND (50)	ND (0.20)
1,1,2-Trichloroethane	ug/L	ND	ND (0.20)	ND (0.20)	-	ND (0.20)	ND (50)	ND (0.20)
1,1-Dichloroethane	ug/L	0.52 J	ND (0.12)	ND (0.12)	-	ND (0.12)	ND (29)	ND (0.12)
1,1-Dichloroethene	ug/L	ND	ND (0.30)	ND (0.30)	-	ND (0.30)	ND (74)	ND (0.30)
1,2,3-Trichlorobenzene	ug/L	1300	ND (0.15)	ND (0.15)	-	ND (0.15)	49 J	ND (0.15)
1,2,4-Trichlorobenzene	ug/L	6300	0.30 J	ND (0.27)	-	ND (0.27)	160 J	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (0.14)	ND (0.14)	-	ND (0.14)	ND (35)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (0.18)	ND (0.18)	-	ND (0.18)	ND (45)	ND (0.18)
1,2-Dichlorobenzene	ug/L	8300	ND (0.15)	2.2	-	ND (0.15)	8300	ND (0.15)
1,2-Dichloroethane	ug/L	ND	ND (0.21)	ND (0.21)	-	ND (0.21)	ND (53)	ND (0.21)
1,2-Dichloropropane	ug/L	ND	ND (0.095)	ND (0.095)	-	ND (0.095)	ND (24)	ND (0.095)
1,3-Dichlorobenzene	ug/L	1900	ND (0.11)	0.14 J	-	ND (0.11)	100 J	ND (0.11)
1,4-Dichlorobenzene	ug/L	3100	ND (0.21)	0.54 J	-	ND (0.21)	1400	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (0.55) UJ	ND (0.55)	-	ND (0.55) UJ	ND (140)	ND (0.55)
2-Hexanone	ug/L	ND	ND (0.16) UJ	ND (0.16)	-	ND (0.16)	ND (40)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (0.53) UJ	ND (0.53)	-	ND (0.53)	ND (130)	ND (0.53)
Acetone	ug/L	7.4 J	ND (2.5) UJ	ND (2.5)	-	3.7 J	ND (620)	ND (2.5)
Benzene	ug/L	230 J	ND (0.11)	0.37 J	-	ND (0.11)	ND (26)	ND (0.11)
Bromodichloromethane	ug/L	4.2	ND (0.13)	ND (0.13)	-	ND (0.13)	ND (32)	ND (0.13)
Bromoform	ug/L	ND	ND (0.19)	ND (0.19)	-	ND (0.19)	ND (48)	ND (0.19)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (0.31)	ND (0.31) UJ	-	ND (0.31)	ND (78)	ND (0.31)
Carbon disulfide	ug/L	2.8	ND (0.21)	ND (0.21)	-	ND (0.21)	ND (53)	ND (0.21)
Carbon tetrachloride	ug/L	ND	ND (0.14)	ND (0.14)	-	ND (0.14)	ND (34)	ND (0.14)
Chlorobenzene	ug/L	19000	ND (0.14)	6.1	-	2.7	4000	ND (0.14)
Chloroethane	ug/L	ND	ND (0.21) UJ	ND (0.21)	-	ND (0.21)	ND (54)	ND (0.21)
Chloroform (Trichloromethane)	ug/L	23	ND (0.17)	ND (0.17)	-	ND (0.17)	ND (43)	ND (0.17)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (0.28)	ND (0.28)	-	ND (0.28)	ND (71)	ND (0.28)
cis-1,2-Dichloroethene	ug/L	49	ND (0.24)	ND (0.24)	-	ND (0.24)	ND (59)	ND (0.24)
cis-1,3-Dichloropropene	ug/L	ND	ND (0.19)	ND (0.19)	-	ND (0.19)	ND (47)	ND (0.19)
Cyclohexane	ug/L	9.8	ND (0.25)	1.1	-	ND (0.25)	ND (64)	ND (0.25)
Dibromochloromethane	ug/L	0.39 J	ND (0.14)	ND (0.14)	-	ND (0.14)	ND (34)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (0.19) UJ	ND (0.19) UJ	-	ND (0.19)	ND (48)	ND (0.19)
Ethylbenzene	ug/L	15 J	ND (0.23)	1.2	-	ND (0.23)	ND (57)	ND (0.23)
Isopropylbenzene	ug/L	6.2 J	ND (0.16)	0.48 J	-	ND (0.16)	ND (41)	ND (0.16)
Methyl acetate	ug/L	ND	ND (0.14) UJ	ND (0.14)	-	ND (0.14)	ND (34) UJ	ND (0.14) UJ
Methyl cyclohexane	ug/L	54	ND (0.26)	0.60 J	-	ND (0.26)	ND (65)	ND (0.26)
Methyl Tert Butyl Ether	ug/L	12 J	ND (0.18)	ND (0.18)	-	ND (0.18)	ND (46)	ND (0.18)
Methylene chloride	ug/L	170 J	ND (0.15)	ND (0.15)	-	ND (0.15)	67 J	ND (0.15) UJ
Styrene	ug/L	ND	ND (0.097)	ND (0.097)	-	ND (0.097)	ND (24)	ND (0.097)
Tetrachloroethene	ug/L	ND	ND (0.15)	ND (0.15)	-	ND (0.15)	ND (37)	ND (0.15)
Toluene	ug/L	6100	ND (0.15)	2.2	-	ND (0.15)	ND (38)	ND (0.15)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (0.17)	ND (0.17)	-	ND (0.17)	ND (42)	ND (0.17)
trans-1,3-Dichloropropene	ug/L	ND	ND (0.15)	ND (0.15)	-	ND (0.15)	ND (37)	ND (0.15)
Trichloroethene	ug/L	480	ND (0.14)	ND (0.14)	-	ND (0.14)	ND (36)	ND (0.14)
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (0.20)	ND (0.20) UJ	-	ND (0.20)	ND (50)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (0.32)	ND (0.32)	-	ND (0.32)	ND (80)	ND (0.32)
Vinyl chloride	ug/L	11	ND (0.23)	ND (0.23)	-	ND (0.23)	ND (57)	ND (0.23)
Xylene (total)	ug/L	36 J	ND (0.49)	1.6 J	-	ND (0.49)	ND (120)	ND (0.49)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-2-10*	*MW-3*	*MW-3*	*MW-3-14*	*MW-3-42*	*MW-3-D*
Sample ID:			*GW-15620-061809-MM-014*	*GW-15620-072109-RW-54*	*GW-15620-072209-RW-054*	*GW-15620-061509-RR-017*	*GW-15620-062309-RR-021*	*GW-15620-062309-RR-023*
Sample Date:			*6/18/2009*	*7/21/2009*	*7/22/2009*	*6/15/2009*	*6/23/2009*	*6/23/2009*
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.33)	-	ND (0.33)	ND (0.35)	ND (0.33)	ND (0.35)
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.14)	-	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.15)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.086)	-	ND (0.087)	ND (0.092)	ND (0.085)	ND (0.091)
2,4-Dichlorophenol	ug/L	7.7	ND (0.13)	-	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.076)	-	ND (0.077)	ND (0.081)	ND (0.076)	ND (0.080)
2,4-Dinitrophenol	ug/L	680	ND (5.8)	-	ND (5.9)	ND (6.2)	ND (5.8)	ND (6.1)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	-	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	ug/L	ND	ND (0.18)	-	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.19)
2-Chloronaphthalene	ug/L	20	ND (0.14)	-	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.15)
2-Chlorophenol	ug/L	27 J	ND (0.20)	-	ND (0.20)	ND (0.21)	1.8 J	ND (0.21)
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	-	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.16)
2-Methylphenol	ug/L	15 J	ND (0.13)	-	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.14)
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	-	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.17)
2-Nitrophenol	ug/L	2.3 J	ND (0.13)	-	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.14)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.34)	-	ND (0.35)	ND (0.37)	ND (0.34)	ND (0.36)
3-Nitroaniline	ug/L	0.98 J	ND (0.25)	-	ND (0.25)	ND (0.26)	ND (0.24)	ND (0.26)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.4)	-	ND (7.5)	ND (7.9)	ND (7.3)	ND (7.8)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	-	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.19)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.24)	-	ND (0.24)	ND (0.26)	ND (0.24)	ND (0.25)
4-Chloroaniline	ug/L	4.2 J	ND (1.0)	-	ND (1.0)	ND (1.1)	ND (1.0)	ND (1.1)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.099)	-	ND (0.10)	ND (0.11)	ND (0.098)	ND (0.10)
4-Methylphenol	ug/L	16 J	ND (0.17)	-	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.18)
4-Nitroaniline	ug/L	0.80 J	ND (0.22)	-	ND (0.22)	ND (0.23)	ND (0.21)	ND (0.23)
4-Nitrophenol	ug/L	ND	ND (6.7)	-	ND (6.8)	ND (7.1)	ND (6.6)	ND (7.0)
Acenaphthene	ug/L	1.5 J	ND (0.14)	-	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)
Acenaphthylene	ug/L	0.80 J	ND (0.080)	-	ND (0.081)	ND (0.085)	ND (0.080)	ND (0.085)
Acetophenone	ug/L	ND	ND (0.21)	-	ND (0.21)	ND (0.22)	ND (0.21)	ND (0.22)
Aniline	ug/L	2900	ND (0.39)	-	ND (0.39)	ND (0.41)	67	ND (0.41)
Anthracene	ug/L	ND	ND (0.99)	-	ND (1.0)	ND (1.0)	ND (0.98)	ND (1.0)
Atrazine	ug/L	ND	ND (0.19)	-	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.20)
Benzaldehyde	ug/L	9.2 J	ND (0.48)	-	ND (0.48)	ND (0.51)	ND (0.47)	ND (0.50)
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	-	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.18)
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	-	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.12)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.15)	-	ND (0.16)	ND (0.16)	ND (0.15)	ND (0.16)
Benzo(g,h,i)perylene	ug/L	7	ND (0.082)	-	ND (0.083)	ND (0.087)	ND (0.081)	ND (0.087)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.16)	-	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.16)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.15)	-	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.15)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	-	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.14)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.25)	-	ND (0.25)	ND (0.27)	ND (0.25)	ND (0.26)
bis(2-Ethylhexyl)phthalate	ug/L	14	ND (0.44)	-	6.4 J	2.9 J	ND (0.43)	1.7 J
Butyl benzylphthalate	ug/L	ND	ND (2.9)	-	ND (2.9)	ND (3.1)	ND (2.9)	ND (3.1)
Caprolactam	ug/L	36 J	ND (6.9)	-	ND (6.9)	ND (7.3)	ND (6.8)	ND (7.2)
Carbazole	ug/L	1.0 J	ND (0.13)	-	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.14)
Chrysene	ug/L	4.3	ND (0.10)	-	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.11)
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	-	ND (0.12)	ND (0.13)	ND (0.12)	ND (0.13)
Dibenzofuran	ug/L	0.92 J	ND (0.18)	-	ND (0.18)	ND (0.19)	ND (0.17)	ND (0.18)
Diethyl phthalate	ug/L	30	ND (0.43)	-	9.0 J	ND (0.45)	ND (0.42)	ND (0.45)
Dimethyl phthalate	ug/L	ND	ND (0.13)	-	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.14)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.28)	-	ND (0.29)	ND (0.30)	ND (0.28)	ND (0.30)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-2-10*	*MW-3*	*MW-3*	*MW-3-14*	*MW-3-42*	*MW-3-D*
Sample ID:			*GW-15620-061809-MM-014*	*GW-15620-072109-RW-54*	*GW-15620-072209-RW-054*	*GW-15620-061509-RR-017*	*GW-15620-062309-RR-021*	*GW-15620-062309-RR-023*
Sample Date:			*6/18/2009*	*7/21/2009*	*7/22/2009*	*6/15/2009*	*6/23/2009*	*6/23/2009*
Parameter	***Units***	***Max***						
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	-	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.16)
Fluoranthene	ug/L	1.1 J	ND (0.095)	-	ND (0.096)	ND (0.10)	ND (0.094)	ND (0.10)
Fluorene	ug/L	0.95 J	ND (0.094)	-	ND (0.095)	ND (0.10)	ND (0.093)	ND (0.099)
Hexachlorobenzene	ug/L	0.89 J	ND (0.17)	-	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.18)
Hexachlorobutadiene	ug/L	ND	ND (0.12)	-	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	-	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.12)
Hexachloroethane	ug/L	ND	ND (0.073)	-	ND (0.074)	ND (0.077)	ND (0.072)	ND (0.077)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.15)	-	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.16)
Isophorone	ug/L	0.93 J	ND (0.27)	-	ND (0.28)	ND (0.29)	ND (0.27)	ND (0.29)
Naphthalene	ug/L	2200	ND (0.26)	-	ND (0.27)	ND (0.28)	0.37 J	ND (0.28)
Nitrobenzene	ug/L	15000	ND (0.17)	-	ND (0.17)	ND (0.18)	2.7	ND (0.18)
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.37)	-	ND (0.37)	ND (0.39)	ND (0.36)	ND (0.39)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.46)	-	ND (0.47)	ND (0.49)	ND (0.46)	ND (0.49)
Pentachlorophenol	ug/L	ND	ND (1.8)	-	ND (1.8)	ND (1.9)	ND (1.8)	ND (1.9)
Phenanthrene	ug/L	1.2 J	ND (0.27)	-	ND (0.27)	ND (0.29)	0.27 J	ND (0.28)
Phenol	ug/L	0.83 J	ND (0.22)	-	ND (0.23)	ND (0.24)	ND (0.22)	ND (0.24)
Pyrene	ug/L	1.4 J	ND (0.11)	-	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)
Metals								
Aluminum	ug/L	3440	111 J	-	3440	ND (74.7) U	ND (9.7)	ND (9.7)
Aluminum (Dissolved)	ug/L	1170	86.5 J	-	1170	ND (70.6) U	ND (9.7)	ND (9.7)
Antimony	ug/L	2.3 J	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	ND (1.3)	-	1.6 J	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	ug/L	436	2.8 J	-	4.3 J	ND (2.7)	8.4 J	4.0 J
Arsenic (Dissolved)	ug/L	448	ND (2.7)	-	4.2 J	3.1 J	5.9 J	3.2 J
Barium	ug/L	626	41.5 J	-	51.6 J	27.2 J	11.3 J	12.1 J
Barium (Dissolved)	ug/L	679	40.0 J	-	38.0 J	27.5 J	10.4 J	12.2 J
Beryllium	ug/L	ND	ND (0.23)	-	ND (0.36) U	ND (0.52) U	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	ug/L	ND	ND (0.23)	-	ND (0.32) U	ND (0.48) U	ND (0.23)	ND (0.23)
Cadmium	ug/L	8.3	ND (0.13)	-	6.1	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	-	2.8 J	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	ug/L	219000	14300	-	10500	79300	27600	24700
Calcium (Dissolved)	ug/L	226000	14600	-	10900	80300	26700	24900
Chromium	ug/L	90.6	ND (1.1) U	-	9.5	1.2 J	0.62 J	ND (0.57)
Chromium Total (Dissolved)	ug/L	17.4	ND (0.57)	-	ND (5.0) U	0.69 J	ND (0.57)	ND (0.57)
Cobalt	ug/L	113	10.2 J	-	2.7 J	1.6 J	ND (0.40)	ND (0.40)
Cobalt (Dissolved)	ug/L	108	9.6 J	-	2.4 J	2.3 J	ND (0.40)	ND (0.40)
Copper	ug/L	294	3.5 J	-	69.5	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	ug/L	54.6	ND (2.7)	-	54.6	ND (2.7)	ND (2.7)	ND (2.7)
Iron	ug/L	94400	1120	-	6320	850	9750	314
Iron (Dissolved)	ug/L	97700	654	-	3070	727	8860	274
Lead	ug/L	70.9	ND (2.3) U	-	70.9	1.3 J	ND (1.3)	ND (1.3)
Lead (Dissolved)	ug/L	41.2	ND (1.3)	-	41.2	ND (1.3)	ND (1.3)	ND (1.3)
Magnesium	ug/L	265000	1670 J	-	1200 J	2960 J	5750	5310
Magnesium (Dissolved)	ug/L	261000	1710 J	-	995 J	3030 J	5530	5370
Manganese	ug/L	14300	1050	-	338	1210	1140	231
Manganese (Dissolved)	ug/L	14100	1030	-	321	1230	1100	224
Mercury	ug/L	6.9	ND (0.038)	-	0.092 J	ND (0.038)	ND (0.038)	0.042 J
Mercury (Dissolved)	ug/L	0.38	ND (0.038)	-	0.046 J	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	ug/L	148	8.3 J	-	8.8 J	3.9 J	ND (1.6)	ND (1.6)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-2-10*	*MW-3*	*MW-3*	*MW-3-14*	*MW-3-42*	*MW-3-D*
Sample ID:			*GW-15620-061809-MM-014*	*GW-15620-072109-RW-54*	*GW-15620-072209-RW-054*	*GW-15620-061509-RR-017*	*GW-15620-062309-RR-021*	*GW-15620-062309-RR-023*
Sample Date:			*6/18/2009*	*7/21/2009*	*7/22/2009*	*6/15/2009*	*6/23/2009*	*6/23/2009*
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	7.5 J	-	5.1 J	3.6 J	ND (1.6)	ND (1.6)
Potassium	ug/L	121000	614 J	-	2150 J	2230 J	1240 J	1220 J
Potassium (Dissolved)	ug/L	118000 J	ND (648) U	-	2540 J	2260 J	1180 J	1230 J
Selenium	ug/L	3.6 J	ND (3.0)	-	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	-	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	ug/L	5.5	ND (0.68)	-	ND (0.68)	0.77 J	ND (0.68)	ND (0.68)
Silver (Dissolved)	ug/L	3.2 J	ND (0.68)	-	ND (0.68)	0.69 J	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	4080 J	-	200000	5200	12900	9640
Sodium (Dissolved)	ug/L	2250000	4290 J	-	230000	5180	12400 J	9580 J
Thallium	ug/L	6.1 J	ND (2.4)	-	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	ND (4.8) U	-	ND (2.4)	ND (3.7) U	ND (2.4)	2.5 J
Vanadium	ug/L	28.8 J	ND (1.9)	-	7.6 J	ND (1.9)	2.4 J	ND (1.9)
Vanadium (Dissolved)	ug/L	29.2 J	ND (1.9)	-	2.9 J	ND (1.9)	2.5 J	ND (1.9)
Zinc	ug/L	254	21.0 J	-	131	ND (5.6) U	ND (8.6) U	ND (3.7) U
Zinc (Dissolved)	ug/L	170	20.4	-	85.5	ND (8.2) U	ND (5.8) U	ND (12.4) U
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0024)	-	ND (0.0024)	ND (0.0025)	ND (0.0025)	ND (0.0025)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0024)	-	ND (0.0023)	ND (0.0025)	ND (0.0025)	ND (0.0025)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0028)	-	ND (0.0028)	ND (0.0029)	ND (0.0029)	ND (0.0029)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	ND (0.0018)	-	ND (0.0017)	ND (0.0018)	ND (0.0019)	ND (0.0018)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0022)	-	ND (0.0021)	ND (0.0023)	ND (0.0023)	ND (0.0023)
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0022)	-	ND (0.0022)	0.050	ND (0.0023)	ND (0.0023)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0013)	-	ND (0.0013)	ND (0.0013)	ND (0.0014)	ND (0.0013)
Gases								
Carbon dioxide	ug/L	160000	7500	-	36000	21000	4500	ND (210)
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	36.2	68.0	-	181	81.7	63.6
Ammonia	mg/L	11.1	0.34	-	ND (0.47) U	0.29	0.53	0.51
Chloride	mg/L	3900	4.1	244	-	0.83 J	7.5	8.4
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	4.4	-	39.4	13.9	1.2	0.19 J
Nitrate (as N)	mg/L	6.5	ND (0.0077)	ND (0.0077)	-	ND (0.0077)	ND (0.0077)	ND (0.0077)
Nitrite (as N)	mg/L	1.5	ND (0.0032)	0.16	-	ND (0.0032)	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	601	12.4	4.8	-	41.0	25.7	25.9

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-3-I*	*MW-4*	*MW-4-18*	*MW-5*	*MW-5-16*	*MW-5-58*
Sample ID:			*GW-15620-062409-RR-025*	*GW-15620-072109-RW-52*	*GW-15620-061009-RR-005*	*GW-15620-072209-RR-079*	*GW-15620-063009-RR-031*	*GW-15620-070609-RR-033*
Sample Date:			*6/24/2009*	*7/21/2009*	*6/10/2009*	*7/22/2009*	*6/30/2009*	*7/6/2009*
Parameter	*Units*	*Max*						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (0.29)	ND (7.2)	ND (0.29)	ND (7.2)	ND (0.29)	ND (140)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (0.20)	ND (5.0)	ND (0.20)	ND (5.0)	ND (0.20)	ND (100)
1,1,2-Trichloroethane	ug/L	ND	ND (0.20)	ND (5.0)	ND (0.20)	ND (5.0)	ND (0.20)	ND (100)
1,1-Dichloroethane	ug/L	0.52 J	ND (0.12)	ND (2.9)	ND (0.12)	ND (2.9)	ND (0.12)	ND (58)
1,1-Dichloroethene	ug/L	ND	ND (0.30)	ND (7.4)	ND (0.30)	ND (7.4)	ND (0.30)	ND (150)
1,2,3-Trichlorobenzene	ug/L	1300	ND (0.15)	ND (3.9)	ND (0.15)	ND (3.9)	ND (0.15)	ND (77)
1,2,4-Trichlorobenzene	ug/L	6300	4.4	8.2 J	ND (0.27)	ND (6.8)	ND (0.27)	ND (140)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (0.14)	ND (3.5)	ND (0.14)	ND (3.5)	ND (0.14)	ND (70)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (0.18)	ND (4.5)	ND (0.18)	ND (4.5)	ND (0.18)	ND (90)
1,2-Dichlorobenzene	ug/L	8300	6.0	100	ND (0.15)	ND (3.8)	ND (0.15)	ND (76)
1,2-Dichloroethane	ug/L	ND	ND (0.21)	ND (5.3)	ND (0.21)	ND (5.3)	ND (0.21)	ND (110)
1,2-Dichloropropane	ug/L	ND	ND (0.095)	ND (2.4)	ND (0.095)	ND (2.4)	ND (0.095)	ND (47)
1,3-Dichlorobenzene	ug/L	1900	1.2	5.5 J	ND (0.11)	2.9 J	ND (0.11)	ND (53)
1,4-Dichlorobenzene	ug/L	3100	2.9	24 J	ND (0.21)	9.5 J	ND (0.21)	ND (100)
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (0.55)	ND (14)	ND (0.55)	ND (14)	ND (0.55)	ND (270)
2-Hexanone	ug/L	ND	ND (0.16)	ND (4.0)	ND (0.16)	ND (4.0)	ND (0.16)	ND (80)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (0.53)	ND (13)	ND (0.53)	ND (13)	ND (0.53)	ND (260)
Acetone	ug/L	7.4 J	ND (2.5)	ND (62)	ND (2.5)	ND (62)	4.4 J	ND (1200)
Benzene	ug/L	230 J	ND (0.11)	24 J	ND (0.11)	37	0.23 J	ND (53)
Bromodichloromethane	ug/L	4.2	ND (0.13)	ND (3.2)	ND (0.13)	ND (3.2)	ND (0.13)	ND (65)
Bromoform	ug/L	ND	ND (0.19)	ND (4.8)	ND (0.19)	ND (4.8)	ND (0.19)	ND (96)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (0.31)	ND (7.8) UJ	ND (0.31)	ND (7.8) UJ	ND (0.31)	ND (160)
Carbon disulfide	ug/L	2.8	ND (0.21)	ND (5.3)	ND (0.21)	ND (5.3)	ND (0.21)	ND (110)
Carbon tetrachloride	ug/L	ND	ND (0.14)	ND (3.4)	ND (0.14) UJ	ND (3.4)	ND (0.14)	ND (68)
Chlorobenzene	ug/L	19000	11	520	ND (0.14)	440	15	5700
Chloroethane	ug/L	ND	ND (0.21)	ND (5.4)	ND (0.21)	ND (5.4)	ND (0.21)	ND (110)
Chloroform (Trichloromethane)	ug/L	23	ND (0.17)	ND (4.3)	ND (0.17)	ND (4.3)	ND (0.17)	ND (85)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (0.28)	ND (7.1)	ND (0.28)	ND (7.1)	ND (0.28)	ND (140)
cis-1,2-Dichloroethene	ug/L	49	ND (0.24)	ND (5.9)	ND (0.24)	ND (5.9)	ND (0.24)	ND (120)
cis-1,3-Dichloropropene	ug/L	ND	ND (0.19)	ND (4.7)	ND (0.19)	ND (4.7)	ND (0.19)	ND (93)
Cyclohexane	ug/L	9.8	ND (0.25)	ND (6.4)	ND (0.25)	ND (6.4)	ND (0.25)	ND (130)
Dibromochloromethane	ug/L	0.39 J	ND (0.14)	ND (3.4)	ND (0.14)	ND (3.4)	ND (0.14)	ND (68)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (0.19)	ND (4.8) UJ	ND (0.19) UJ	ND (4.8) UJ	ND (0.19)	ND (96) UJ
Ethylbenzene	ug/L	15 J	ND (0.23)	8.0 J	ND (0.23)	ND (5.7)	ND (0.23)	ND (110)
Isopropylbenzene	ug/L	6.2 J	ND (0.16)	ND (4.1)	ND (0.16)	6.2 J	ND (0.16)	ND (82)
Methyl acetate	ug/L	ND	ND (0.14) UJ	ND (3.4)	ND (0.14)	ND (3.4)	ND (0.14)	ND (69)
Methyl cyclohexane	ug/L	54	ND (0.26)	ND (6.5)	ND (0.26)	ND (6.5)	ND (0.26)	ND (130)
Methyl Tert Butyl Ether	ug/L	12 J	ND (0.18)	ND (4.6)	ND (0.18)	ND (4.6)	ND (0.18)	ND (92)
Methylene chloride	ug/L	170 J	ND (0.15) UJ	ND (3.7)	ND (0.15)	ND (3.7)	ND (0.15)	ND (75) U
Styrene	ug/L	ND	ND (0.097)	ND (2.4)	ND (0.097)	ND (2.4)	ND (0.097)	ND (48)
Tetrachloroethene	ug/L	ND	ND (0.15)	ND (3.7)	ND (0.15)	ND (3.7)	ND (0.15)	ND (74)
Toluene	ug/L	6100	ND (0.15)	9.4 J	ND (0.15)	ND (3.8)	ND (0.15)	ND (75)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (0.17)	ND (4.2)	ND (0.17)	ND (4.2)	ND (0.17)	ND (85)
trans-1,3-Dichloropropene	ug/L	ND	ND (0.15)	ND (3.7)	ND (0.15)	ND (3.7)	ND (0.15)	ND (74)
Trichloroethene	ug/L	480	ND (0.14)	ND (3.6)	ND (0.14)	ND (3.6)	0.22 J	ND (72)
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (0.20)	ND (5.0) UJ	ND (0.20)	ND (5.0) UJ	ND (0.20)	ND (99)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (0.32)	ND (8.0)	ND (0.32)	ND (8.0)	ND (0.32)	ND (160)
Vinyl chloride	ug/L	11	ND (0.23)	ND (5.7)	ND (0.23)	ND (5.7)	ND (0.23)	ND (110)
Xylene (total)	ug/L	36 J	ND (0.49)	15 J	ND (0.49)	ND (12)	ND (0.49)	ND (240)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-3-I*	*MW-4*	*MW-4-18*	*MW-5*	*MW-5-16*	*MW-5-58*
Sample ID:			*GW-15620-062409-RR-025*	*GW-15620-072109-RW-52*	*GW-15620-061009-RR-005*	*GW-15620-072209-RR-079*	*GW-15620-063009-RR-031*	*GW-15620-070609-RR-033*
Sample Date:			*6/24/2009*	*7/21/2009*	*6/10/2009*	*7/22/2009*	*6/30/2009*	*7/6/2009*
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.35)	ND (0.33)	ND (0.33)	ND (0.35)	ND (0.34)	ND (0.33)
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.14)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.093)	ND (0.087)	ND (0.086)	ND (0.093)	ND (0.088)	ND (0.085)
2,4-Dichlorophenol	ug/L	7.7	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.082)	ND (0.077)	ND (0.076)	ND (0.082)	ND (0.078)	ND (0.076)
2,4-Dinitrophenol	ug/L	680	ND (6.3)	ND (5.9)	ND (5.8)	ND (6.3)	ND (6.0)	ND (5.8)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	ug/L	ND	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)
2-Chloronaphthalene	ug/L	20	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.14)
2-Chlorophenol	ug/L	27 J	ND (0.21)	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.20)	ND (0.20)
2-Methylnaphthalene	ug/L	0.71 J	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)
2-Methylphenol	ug/L	15 J	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.13)
2-Nitroaniline	ug/L	1.1 J	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)
2-Nitrophenol	ug/L	2.3 J	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.13)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.37)	ND (0.35)	ND (0.34)	ND (0.37)	ND (0.35)	ND (0.34)
3-Nitroaniline	ug/L	0.98 J	ND (0.26)	ND (0.25)	ND (0.25)	ND (0.26)	ND (0.25)	ND (0.24)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (8.0)	ND (7.5)	ND (7.4)	ND (8.0)	ND (7.6)	ND (7.3)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.18)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.26)	ND (0.24)	ND (0.24)	ND (0.26)	ND (0.25)	ND (0.24)
4-Chloroaniline	ug/L	4.2 J	ND (1.1)	ND (1.0)	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.0)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.11)	ND (0.10)	ND (0.099)	ND (0.11)	ND (0.10)	ND (0.098)
4-Methylphenol	ug/L	16 J	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)
4-Nitroaniline	ug/L	0.80 J	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.22)	ND (0.21)
4-Nitrophenol	ug/L	ND	ND (7.2)	ND (6.8)	ND (6.7)	ND (7.2)	ND (6.8)	ND (6.6)
Acenaphthene	ug/L	1.5 J	ND (0.15)	ND (0.14)	ND (0.14)	1.3 J	ND (0.14)	ND (0.14)
Acenaphthylene	ug/L	0.80 J	ND (0.086)	ND (0.081)	ND (0.080)	ND (0.086)	ND (0.082)	ND (0.080)
Acetophenone	ug/L	ND	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.21)	ND (0.21)
Aniline	ug/L	2900	ND (0.42)	87	ND (0.39)	ND (0.42)	ND (0.40)	ND (0.38)
Anthracene	ug/L	ND	ND (1.1)	ND (1.0)	ND (0.99)	ND (1.1)	ND (1.0)	ND (0.98)
Atrazine	ug/L	ND	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.21)	ND (0.20)	ND (0.19)
Benzaldehyde	ug/L	9.2 J	ND (0.51)	ND (0.48)	ND (0.48)	ND (0.51)	ND (0.49)	ND (0.47)
Benzo(a)anthracene	ug/L	3.3	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)
Benzo(a)pyrene	ug/L	8.4	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.17)	ND (0.16)	ND (0.15)	ND (0.17)	ND (0.16)	ND (0.15)
Benzo(g,h,i)perylene	ug/L	7	ND (0.088)	ND (0.083)	ND (0.082)	ND (0.088)	ND (0.084)	ND (0.081)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.15)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.14)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.27)	ND (0.25)	ND (0.25)	ND (0.27)	ND (0.26)	ND (0.25)
bis(2-Ethylhexyl)phthalate	ug/L	14	ND (0.47)	ND (0.44)	ND (0.44)	5.4 J	ND (0.45)	3.6 J
Butyl benzylphthalate	ug/L	ND	ND (3.1)	ND (2.9)	ND (2.9)	ND (3.1)	ND (3.0)	ND (2.9)
Caprolactam	ug/L	36 J	8.1 J	8.1 J	ND (6.9)	ND (7.4)	7.0 J	ND (6.8)
Carbazole	ug/L	1.0 J	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
Chrysene	ug/L	4.3	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.10)
Dibenz(a,h)anthracene	ug/L	12	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.12)	ND (0.12)
Dibenzofuran	ug/L	0.92 J	ND (0.19)	ND (0.18)	ND (0.18)	0.24 J	ND (0.18)	ND (0.17)
Diethyl phthalate	ug/L	30	ND (0.46)	8.6 J	ND (0.43)	ND (0.46)	ND (0.44)	ND (0.42)
Dimethyl phthalate	ug/L	ND	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.13)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.30)	ND (0.29)	ND (0.28)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-3-I*	*MW-4*	*MW-4-18*	*MW-5*	*MW-5-16*	*MW-5-58*
Sample ID:			*GW-15620-062409-RR-025*	*GW-15620-072109-RW-52*	*GW-15620-061009-RR-005*	*GW-15620-072209-RR-079*	*GW-15620-063009-RR-031*	*GW-15620-070609-RR-033*
Sample Date:			*6/24/2009*	*7/21/2009*	*6/10/2009*	*7/22/2009*	*6/30/2009*	*7/6/2009*
Parameter	***Units***	***Max***						
Di-n-octyl phthalate	ug/L	10 J	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)
Fluoranthene	ug/L	1.1 J	ND (0.10)	ND (0.096)	ND (0.095)	ND (0.10)	ND (0.097)	ND (0.094)
Fluorene	ug/L	0.95 J	ND (0.10)	ND (0.095)	ND (0.094)	0.70 J	ND (0.096)	ND (0.093)
Hexachlorobenzene	ug/L	0.89 J	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.18)	ND (0.17)
Hexachlorobutadiene	ug/L	ND	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.11)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)
Hexachloroethane	ug/L	ND	ND (0.078)	ND (0.074)	ND (0.073)	ND (0.078)	ND (0.074)	ND (0.072)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.15)
Isophorone	ug/L	0.93 J	ND (0.29)	ND (0.28)	ND (0.27)	ND (0.29)	ND (0.28)	ND (0.27)
Naphthalene	ug/L	2200	ND (0.28)	5.2	ND (0.26)	5.0	ND (0.27)	ND (0.26)
Nitrobenzene	ug/L	15000	3.1	710	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.39)	ND (0.37)	ND (0.37)	ND (0.39)	ND (0.37)	ND (0.36)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.50)	ND (0.47)	ND (0.46)	ND (0.50)	ND (0.47)	ND (0.46)
Pentachlorophenol	ug/L	ND	ND (1.9)	ND (1.8)	ND (1.8)	ND (1.9)	ND (1.8)	ND (1.8)
Phenanthrene	ug/L	1.2 J	ND (0.29)	ND (0.27)	ND (0.27)	ND (0.29)	ND (0.28)	ND (0.27)
Phenol	ug/L	0.83 J	ND (0.24)	ND (0.23)	ND (0.22)	ND (0.24)	ND (0.23)	ND (0.22)
Pyrene	ug/L	1.4 J	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.10)
Metals								
Aluminum	ug/L	3440	99.2 J	768	ND (162) U	ND (141) U	ND (43.1) U	ND (139) U
Aluminum (Dissolved)	ug/L	1170	ND (9.7)	912	ND (27.6) U	ND (49.3) U	ND (28.0) U	ND (112) U
Antimony	ug/L	2.3 J	ND (1.3)	1.4 J	ND (1.3)	1.4 J	ND (1.3)	1.3 J
Antimony (Dissolved)	ug/L	5.1 J	ND (1.3)	2.4 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	ug/L	436	4.9 J	5.4 J	ND (2.7)	10.4	ND (2.7)	12.2
Arsenic (Dissolved)	ug/L	448	4.9 J	2.8 J	ND (2.7)	10	ND (2.7)	11.8
Barium	ug/L	626	8.0 J	24.9 J	ND (8.9) U	33.9 J	18.3 J	6.9 J
Barium (Dissolved)	ug/L	679	7.6 J	24.0 J	8.2 J	33.2 J	18.4 J	6.6 J
Beryllium	ug/L	ND	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.25) U	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	ug/L	ND	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.24) U	ND (0.23)	ND (0.23)
Cadmium	ug/L	8.3	ND (0.13)	ND (0.22) U	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	ND (0.25) U	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	ug/L	219000	32700	5740	11700	27000	42400	18500
Calcium (Dissolved)	ug/L	226000	32000	4830 J	12200	27500	43700	18500
Chromium	ug/L	90.6	ND (0.57)	ND (2.5) U	ND (1.2) U	ND (2.0) U	ND (0.57)	ND (0.57)
Chromium Total (Dissolved)	ug/L	17.4	ND (0.57)	2.8 J	ND (1.6) U	ND (1.5) U	ND (0.57)	ND (0.57)
Cobalt	ug/L	113	1.2 J	ND (1.8) U	ND (0.40)	2.1 J	ND (0.40)	ND (0.40)
Cobalt (Dissolved)	ug/L	108	1.4 J	ND (1.7) U	ND (0.40)	2.4 J	ND (0.40)	ND (0.40)
Copper	ug/L	294	ND (2.7)	24.2 J	ND (2.7)	ND (2.7)	2.7 J	ND (2.7)
Copper (Dissolved)	ug/L	54.6	ND (2.7)	22.4 J	ND (2.7)	ND (2.7)	3.4 J	ND (2.7)
Iron	ug/L	94400	986	1840	144	28200	111	ND (62.3) U
Iron (Dissolved)	ug/L	97700	828	2030	12.8 J	27200	ND (11.9)	ND (46.3) U
Lead	ug/L	70.9	ND (1.3)	12.7	ND (1.3)	2.3 J	ND (2.0) U	ND (1.3)
Lead (Dissolved)	ug/L	41.2	ND (1.3)	10.8	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Magnesium	ug/L	265000	4550 J	486 J	1850 J	5520	2400 J	3660 J
Magnesium (Dissolved)	ug/L	261000	4450 J	488 J	1880 J	5720	2490 J	3860 J
Manganese	ug/L	14300	376	127	50.6	2480	88.0	45.1
Manganese (Dissolved)	ug/L	14100	370	94.2	43.1	2480	59.2	45.2
Mercury	ug/L	6.9	ND (0.038)	0.073 J	ND (0.038)	0.14 J	ND (0.038)	ND (0.038)
Mercury (Dissolved)	ug/L	0.38	ND (0.038)	0.045 J	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	ug/L	148	ND (1.6)	10.6 J	ND (1.6)	2.3 J	6.1 J	ND (1.6)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-3-I*	*MW-4*	*MW-4-18*	*MW-5*	*MW-5-16*	*MW-5-58*
Sample ID:			*GW-15620-062409-RR-025*	*GW-15620-072109-RW-52*	*GW-15620-061009-RR-005*	*GW-15620-072209-RR-079*	*GW-15620-063009-RR-031*	*GW-15620-070609-RR-033*
Sample Date:			*6/24/2009*	*7/21/2009*	*6/10/2009*	*7/22/2009*	*6/30/2009*	*7/6/2009*
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	ND (1.6)	11.0 J	ND (1.6)	2.0 J	6.0 J	ND (1.6)
Potassium	ug/L	121000	1920 J	2050 J	1440 J	4090 J	1390 J	13700
Potassium (Dissolved)	ug/L	118000 J	2030 J	2000 J	1470 J	4370 J	1470 J	12900
Selenium	ug/L	3.6 J	ND (3.0) UJ	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0) UJ	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	ug/L	5.5	0.83 J	ND (0.68)	ND (0.68)	1.3 J	ND (0.68)	ND (0.68)
Silver (Dissolved)	ug/L	3.2 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	18100	194000	ND (7610) U	50900	2770 J	15400
Sodium (Dissolved)	ug/L	2250000	17700	184000	7050	57500	2910 J	14800
Thallium	ug/L	6.1 J	ND (2.4)	ND (2.4)	ND (3.8) U	ND (2.4)	ND (2.4)	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	ND (2.4)	ND (2.4)	ND (2.4)	2.8 J	ND (2.4)	ND (2.4)
Vanadium	ug/L	28.8 J	ND (1.9)	2.1 J	ND (1.9)	2.8 J	6.4 J	2.2 J
Vanadium (Dissolved)	ug/L	29.2 J	ND (1.9)	2.4 J	ND (1.9)	1.9 J	6.3 J	2.1 J
Zinc	ug/L	254	ND (2.5)	52.3	ND (9.6) U	52.5	ND (4.2) U	ND (2.5)
Zinc (Dissolved)	ug/L	170	4.6 J	50.6	ND (7.0) U	62.4	4.9 J	ND (2.5)
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0025)	ND (0.0024)	ND (0.0025)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0025)	ND (0.0024)	ND (0.0024)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	1.3 J	ND (0.0018)	ND (0.0018)	0.022	ND (0.0018)	ND (0.0018)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0022)	0.016	ND (0.0022)	ND (0.0023)	ND (0.0022)	ND (0.0022)
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0014)	ND (0.0013)	ND (0.0013)
Gases								
Carbon dioxide	ug/L	160000	8000	18000	15000	47000	18000	ND (210)
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	102	111	22.4	140	117	63.7
Ammonia	mg/L	11.1	0.24	0.92	0.21	3.8	0.065 J	0.20
Chloride	mg/L	3900	7.0	209	6.8	77.5	ND (0.50) U	7.9
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	1.8	12.2	1.1	11.0	5.6	ND (0.79) U
Nitrate (as N)	mg/L	6.5	ND (0.0077)	0.39	1.6	0.41	ND (0.0077)	0.75
Nitrite (as N)	mg/L	1.5	ND (0.0032)	0.17	ND (0.0032)	0.066	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	601	30.1	13.4	13.1	ND (0.031)	5.8	20.3

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-6*	*MW-6-17*	*MW-6-75*	*MW-7*	*MW-7*	*MW-7-20*
Sample ID:			*GW-15620-072209-RW-074*	*GW-15620-061709-MM-010*	*GW-15620-061709-MM-008*	*GW-15620-072309-RR-083*	*GW-15620-072309-RR-085*	*GW-15620-061009-RR-009*
Sample Date:			*7/22/2009*	*6/17/2009*	*6/17/2009*	*7/23/2009*	*7/23/2009*	*6/10/2009*
							Duplicate	
Parameter	*Units*	*Max*						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (3.6)	ND (1.4)	ND (110)	ND (0.29)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (2.5)	ND (1.0)	ND (80)	ND (0.20)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	ug/L	ND	ND (2.5)	ND (1.0)	ND (81)	ND (0.20)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	ug/L	0.52 J	ND (1.5)	ND (0.58)	ND (47)	ND (0.12)	ND (0.12)	ND (0.12)
1,1-Dichloroethene	ug/L	ND	ND (3.7)	ND (1.5)	ND (120)	ND (0.30)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	ug/L	1300	ND (1.9) UJ	23	1200	ND (0.15)	ND (0.15)	ND (0.15)
1,2,4-Trichlorobenzene	ug/L	6300	ND (3.4)	100	6300	ND (0.27)	ND (0.27)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (1.8) UJ	ND (0.70)	ND (56)	ND (0.14)	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (2.3)	ND (0.90)	ND (72)	ND (0.18)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	ug/L	8300	ND (1.9)	97	4400	ND (0.15)	ND (0.15)	ND (0.15)
1,2-Dichloroethane	ug/L	ND	ND (2.6)	ND (1.1)	ND (85)	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	ug/L	ND	ND (1.2)	ND (0.47)	ND (38)	ND (0.095)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	ug/L	1900	ND (1.3)	10	430	ND (0.11)	ND (0.11)	ND (0.11)
1,4-Dichlorobenzene	ug/L	3100	ND (2.6)	35	940	ND (0.21)	ND (0.21)	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (6.8)	ND (2.7)	ND (220)	ND (0.55)	0.67 J	ND (0.55)
2-Hexanone	ug/L	ND	ND (2.0)	ND (0.80)	ND (64)	ND (0.16)	ND (0.16)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (6.6)	ND (2.6)	ND (210)	ND (0.53)	ND (0.53)	ND (0.53)
Acetone	ug/L	7.4 J	ND (31)	ND (12)	ND (1000)	3.2 J	3.1 J	ND (2.5)
Benzene	ug/L	230 J	210	ND (0.53)	ND (42)	ND (0.11)	0.11 J	ND (0.11)
Bromodichloromethane	ug/L	4.2	ND (1.6)	ND (0.65)	ND (52)	ND (0.13)	ND (0.13)	ND (0.13)
Bromoform	ug/L	ND	ND (2.4) UJ	ND (0.96)	ND (77)	ND (0.19)	ND (0.19)	ND (0.19)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (3.9) UJ	ND (1.6)	ND (130)	ND (0.31)	ND (0.31)	ND (0.31)
Carbon disulfide	ug/L	2.8	ND (2.6)	ND (1.1)	ND (85)	ND (0.21) UJ	ND (0.21)	ND (0.21)
Carbon tetrachloride	ug/L	ND	ND (1.7)	ND (0.68) UJ	ND (55) UJ	ND (0.14)	ND (0.14)	ND (0.14) UJ
Chlorobenzene	ug/L	19000	38	57	9600	ND (0.14)	ND (0.14)	ND (0.14)
Chloroethane	ug/L	ND	ND (2.7)	ND (1.1) UJ	ND (86) UJ	ND (0.21)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	ug/L	23	ND (2.1)	ND (0.85)	ND (68)	ND (0.17)	ND (0.17)	ND (0.17)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (3.5)	ND (1.4)	ND (110)	ND (0.28) UJ	ND (0.28)	ND (0.28)
cis-1,2-Dichloroethene	ug/L	49	ND (3.0)	ND (1.2)	ND (95)	ND (0.24)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	ug/L	ND	ND (2.3)	ND (0.93)	ND (75)	ND (0.19)	ND (0.19)	ND (0.19)
Cyclohexane	ug/L	9.8	5.5 J	ND (1.3)	ND (100)	ND (0.25)	ND (0.25)	ND (0.25)
Dibromochloromethane	ug/L	0.39 J	ND (1.7)	ND (0.68)	ND (55)	ND (0.14)	ND (0.14)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (2.4)	ND (0.96)	ND (77)	ND (0.19)	ND (0.19)	ND (0.19)
Ethylbenzene	ug/L	15 J	ND (2.8)	ND (1.1)	ND (91)	ND (0.23)	ND (0.23)	ND (0.23)
Isopropylbenzene	ug/L	6.2 J	3.0 J	ND (0.82)	ND (66)	ND (0.16)	ND (0.16)	ND (0.16)
Methyl acetate	ug/L	ND	ND (1.7)	ND (0.69)	ND (55)	ND (0.14)	ND (0.14)	ND (0.14)
Methyl cyclohexane	ug/L	54	ND (3.3)	ND (1.3)	ND (100)	ND (0.26)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	ug/L	12 J	5.5 J	ND (0.92)	ND (73)	1.1	1.2	ND (0.18)
Methylene chloride	ug/L	170 J	ND (1.9)	ND (0.75)	ND (60)	ND (0.15)	ND (0.15)	ND (0.15)
Styrene	ug/L	ND	ND (1.2)	ND (0.48)	ND (39)	ND (0.097)	ND (0.097)	ND (0.097)
Tetrachloroethene	ug/L	ND	ND (1.9)	ND (0.74)	ND (59)	ND (0.15)	ND (0.15)	ND (0.15)
Toluene	ug/L	6100	4.3 J	ND (0.75)	90 J	0.21 J	0.27 J	ND (0.15)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (2.1)	ND (0.85)	ND (68)	ND (0.17)	ND (0.17)	ND (0.17)
trans-1,3-Dichloropropene	ug/L	ND	ND (1.8)	ND (0.74)	ND (59)	ND (0.15)	ND (0.15)	ND (0.15)
Trichloroethene	ug/L	480	ND (4.2) U	0.98 J	ND (57)	ND (0.14)	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (2.5)	ND (0.99)	ND (80)	ND (0.20)	ND (0.20)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (4.0)	ND (1.6)	ND (130)	ND (0.32)	ND (0.32)	ND (0.32)
Vinyl chloride	ug/L	11	ND (2.8)	ND (1.1)	ND (91)	ND (0.23)	ND (0.23)	ND (0.23)
Xylene (total)	ug/L	36 J	9.2 J	ND (2.4)	ND (200)	ND (0.49)	0.49 J	ND (0.49)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-6*	*MW-6-17*	*MW-6-75*	*MW-7*	*MW-7*	*MW-7-20*
Sample ID:			*GW-15620-072209-RW-074*	*GW-15620-061709-MM-010*	*GW-15620-061709-MM-008*	*GW-15620-072309-RR-083*	*GW-15620-072309-RR-085*	*GW-15620-061009-RR-009*
Sample Date:			*7/22/2009*	*6/17/2009*	*6/17/2009*	*7/23/2009*	*7/23/2009*	*6/10/2009*
							Duplicate	
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.36)	ND (0.39)	ND (0.34)
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.14)	ND (0.14)	1.1 J	ND (0.16)	ND (0.17)	ND (0.15)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.086)	ND (0.086)	0.71 J	ND (0.094)	ND (0.10)	ND (0.089)
2,4-Dichlorophenol	ug/L	7.7	ND (0.13)	ND (0.13)	1.4 J	ND (0.14)	ND (0.15)	ND (0.13)
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.076)	ND (0.076)	0.68 J	ND (0.084)	ND (0.090)	ND (0.079)
2,4-Dinitrophenol	ug/L	680	ND (5.8)	ND (5.8)	ND (5.8)	ND (6.4)	ND (6.9)	ND (6.0)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	ND (0.16)	0.75 J	ND (0.17)	ND (0.18)	ND (0.16)
2,6-Dinitrotoluene	ug/L	ND	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.20)	ND (0.21)	ND (0.19)
2-Chloronaphthalene	ug/L	20	ND (0.14)	ND (0.14)	0.88 J	ND (0.16)	ND (0.17)	ND (0.15)
2-Chlorophenol	ug/L	27 J	ND (0.20)	ND (0.20)	2.2 J	ND (0.22)	ND (0.24)	ND (0.21)
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	ND (0.15)	0.71 J	ND (0.16)	ND (0.18)	ND (0.15)
2-Methylphenol	ug/L	15 J	ND (0.13)	ND (0.13)	0.82 J	ND (0.15)	ND (0.16)	ND (0.14)
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	ND (0.16)	1.1 J	ND (0.17)	ND (0.19)	ND (0.16)
2-Nitrophenol	ug/L	2.3 J	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.16)	ND (0.14)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.34)	ND (0.34)	3.4 J	ND (0.38)	ND (0.40)	ND (0.35)
3-Nitroaniline	ug/L	0.98 J	ND (0.25)	ND (0.25)	0.98 J	ND (0.27)	ND (0.29)	ND (0.25)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.4)	ND (7.4)	ND (7.3)	ND (8.1)	ND (8.7)	ND (7.6)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	ND (0.18)	0.90 J	ND (0.20)	ND (0.21)	ND (0.18)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.24)	ND (0.24)	1.0 J	ND (0.26)	ND (0.28)	ND (0.25)
4-Chloroaniline	ug/L	4.2 J	ND (1.0)	ND (1.0)	1.7 J	ND (1.1)	ND (1.2)	ND (1.1)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.099)	ND (0.099)	0.85 J	ND (0.11)	ND (0.12)	ND (0.10)
4-Methylphenol	ug/L	16 J	ND (0.17)	0.20 J	2.2 J	ND (0.18)	ND (0.20)	ND (0.17)
4-Nitroaniline	ug/L	0.80 J	ND (0.22)	ND (0.22)	0.80 J	ND (0.24)	ND (0.26)	ND (0.22)
4-Nitrophenol	ug/L	ND	ND (6.7)	ND (6.7)	ND (6.6)	ND (7.3) UJ	ND (7.9) UJ	ND (6.9)
Acenaphthene	ug/L	1.5 J	ND (0.14)	ND (0.14)	0.85 J	ND (0.15)	ND (0.16)	ND (0.14)
Acenaphthylene	ug/L	0.80 J	ND (0.080)	ND (0.080)	0.80 J	ND (0.088)	ND (0.095)	ND (0.083)
Acetophenone	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.25)	ND (0.22)
Aniline	ug/L	2900	ND (0.39)	7.8 J	2800	ND (0.42)	ND (0.46)	ND (0.40)
Anthracene	ug/L	ND	ND (0.99)	ND (0.99)	ND (0.98)	ND (1.1)	ND (1.2)	ND (1.0)
Atrazine	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.21)	ND (0.23)	ND (0.20)
Benzaldehyde	ug/L	9.2 J	ND (0.48)	ND (0.48)	ND (0.47)	ND (0.52)	ND (0.56)	ND (0.49)
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	ND (0.17)	1.1 J	ND (0.18)	ND (0.20)	ND (0.17)
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	ND (0.11)	8.4	ND (0.12)	ND (0.13)	ND (0.11)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.18)	ND (0.16)
Benzo(g,h,i)perylene	ug/L	7	ND (0.082)	ND (0.082)	7.0	ND (0.090)	ND (0.097)	ND (0.085)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.16)	ND (0.16)	1.0 J	ND (0.17)	ND (0.18)	ND (0.16)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.16)	ND (0.17)	ND (0.15)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.15)	ND (0.13)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.27)	ND (0.30)	ND (0.26)
bis(2-Ethylhexyl)phthalate	ug/L	14	3.0 J	ND (0.44)	3.6 J	ND (0.48)	ND (0.52)	ND (0.45)
Butyl benzylphthalate	ug/L	ND	ND (2.9)	ND (2.9)	ND (2.9)	ND (3.2)	ND (3.4)	ND (3.0)
Caprolactam	ug/L	36 J	ND (6.9)	7.4 J	ND (6.8)	ND (7.5)	ND (8.1)	ND (7.1)
Carbazole	ug/L	1.0 J	ND (0.13)	ND (0.13)	1.0 J	ND (0.14)	ND (0.15)	ND (0.13)
Chrysene	ug/L	4.3	ND (0.10)	ND (0.10)	1.2 J	ND (0.11)	ND (0.12)	ND (0.11)
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	ND (0.12)	12	ND (0.13)	ND (0.14)	ND (0.12)
Dibenzofuran	ug/L	0.92 J	ND (0.18)	ND (0.18)	0.92 J	ND (0.19)	ND (0.21)	ND (0.18)
Diethyl phthalate	ug/L	30	8.3 J	ND (0.43)	1.2 J	ND (0.47)	ND (0.50)	ND (0.44)
Dimethyl phthalate	ug/L	ND	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.16)	ND (0.14)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.28)	ND (0.28)	1.2 J	ND (0.31)	0.56 J	ND (0.29)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-6*	*MW-6-17*	*MW-6-75*	*MW-7*	*MW-7*	*MW-7-20*
Sample ID:			*GW-15620-072209-RW-074*	*GW-15620-061709-MM-010*	*GW-15620-061709-MM-008*	*GW-15620-072309-RR-083*	*GW-15620-072309-RR-085*	*GW-15620-061009-RR-009*
Sample Date:			*7/22/2009*	*6/17/2009*	*6/17/2009*	*7/23/2009*	*7/23/2009*	*6/10/2009*
							Duplicate	
Parameter	*Units*	*Max*						
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	ND (0.15)	8.0 J	ND (0.16)	ND (0.17)	ND (0.15)
Fluoranthene	ug/L	1.1 J	ND (0.095)	ND (0.095)	1.1 J	ND (0.10)	ND (0.11)	ND (0.098)
Fluorene	ug/L	0.95 J	ND (0.094)	ND (0.094)	0.95 J	ND (0.10)	ND (0.11)	ND (0.097)
Hexachlorobenzene	ug/L	0.89 J	ND (0.17)	ND (0.17)	0.89 J	ND (0.19)	ND (0.20)	ND (0.18)
Hexachlorobutadiene	ug/L	ND	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.13)	ND (0.14)	ND (0.12)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.13)	ND (0.11)
Hexachloroethane	ug/L	ND	ND (0.073)	ND (0.073)	ND (0.072)	ND (0.080)	ND (0.086)	ND (0.075)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.15)	ND (0.15)	9.7	ND (0.17)	ND (0.18)	ND (0.16)
Isophorone	ug/L	0.93 J	ND (0.27)	ND (0.27)	0.93 J	ND (0.30)	ND (0.32)	ND (0.28)
Naphthalene	ug/L	2200	ND (0.26)	ND (0.26)	42	ND (0.29)	ND (0.31)	ND (0.27)
Nitrobenzene	ug/L	15000	ND (0.17)	2.2	480	ND (0.19)	ND (0.20)	ND (0.18)
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.37)	ND (0.37)	ND (0.36)	ND (0.40)	ND (0.43)	ND (0.38)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.46)	ND (0.46)	0.93 J	ND (0.51)	ND (0.55)	ND (0.48)
Pentachlorophenol	ug/L	ND	ND (1.8)	ND (1.8)	ND (1.8)	ND (2.0)	ND (2.1)	ND (1.8)
Phenanthrene	ug/L	1.2 J	ND (0.27)	ND (0.27)	1.2 J	ND (0.30)	ND (0.32)	ND (0.28)
Phenol	ug/L	0.83 J	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.26)	ND (0.23)
Pyrene	ug/L	1.4 J	ND (0.11)	ND (0.11)	1.1 J	ND (0.12)	ND (0.12)	ND (0.11)
Metals								
Aluminum	ug/L	3440	ND (52.5) U	ND (67.0) U	ND (29.2) U	61.2 J	51.4 J	ND (30.3) U
Aluminum (Dissolved)	ug/L	1170	ND (44.0) U	ND (69.4) U	ND (28.3) U	21.6 J	10.8 J	ND (22.6) U
Antimony	ug/L	2.3 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	ug/L	436	51.2	ND (2.7)	4.1 J	7.8 J	6.3 J	ND (2.7)
Arsenic (Dissolved)	ug/L	448	60.3	ND (2.7)	5.2 J	6.9 J	7.6 J	ND (2.7)
Barium	ug/L	626	626	9.6 J	18.7 J	193 J	193 J	ND (1.9) U
Barium (Dissolved)	ug/L	679	679	9.6 J	18.6 J	184 J	183 J	1.8 J
Beryllium	ug/L	ND	ND (0.25) U	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	ug/L	ND	ND (0.35) U	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Cadmium	ug/L	8.3	ND (0.13)	ND (0.23) U	ND (0.13)	0.51 J	0.51 J	ND (0.13)
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	0.17 J	ND (0.13)	0.37 J	ND (0.35) U	ND (0.13)
Calcium	ug/L	219000	20500	18300	29300	30300	30400	17800
Calcium (Dissolved)	ug/L	226000	20000	18400	29200	31000	31300	18000
Chromium	ug/L	90.6	ND (4.2) U	ND (1.1) U	ND (0.57)	0.76 J	0.79 J	ND (1.0) U
Chromium Total (Dissolved)	ug/L	17.4	ND (3.9) U	0.71 J	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)
Cobalt	ug/L	113	ND (0.40)	27.6 J	ND (0.40)	ND (0.40)	ND (0.40)	1.4 J
Cobalt (Dissolved)	ug/L	108	ND (0.40)	28.1 J	ND (0.40)	ND (0.40)	ND (0.40)	1.5 J
Copper	ug/L	294	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	ug/L	54.6	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Iron	ug/L	94400	51200	ND (29.7) U	1800	79100	78900	ND (11.9)
Iron (Dissolved)	ug/L	97700	54200	ND (11.9)	1620	77000	75800	ND (11.9)
Lead	ug/L	70.9	ND (3.4) U	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Lead (Dissolved)	ug/L	41.2	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Magnesium	ug/L	265000	5430	4450 J	5350	3810 J	3810 J	3600 J
Magnesium (Dissolved)	ug/L	261000	5630	4550 J	5430	3780 J	3790 J	3630 J
Manganese	ug/L	14300	3140	3070	936	3100	3060	2390
Manganese (Dissolved)	ug/L	14100	3100	3080	935	3360	3320	2330
Mercury	ug/L	6.9	0.16 J	ND (0.038)	ND (0.038)	0.048 J	ND (0.038)	ND (0.038)
Mercury (Dissolved)	ug/L	0.38	0.040 J	ND (0.038)	ND (0.038)	0.042 J	ND (0.038)	ND (0.038)
Nickel	ug/L	148	ND (1.6)	13.5 J	ND (1.6)	2.1 J	2.6 J	3.5 J

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-6*	*MW-6-17*	*MW-6-75*	*MW-7*	*MW-7*	*MW-7-20*
Sample ID:			*GW-15620-072209-RW-074*	*GW-15620-061709-MM-010*	*GW-15620-061709-MM-008*	*GW-15620-072309-RR-083*	*GW-15620-072309-RR-085*	*GW-15620-061009-RR-009*
Sample Date:			*7/22/2009*	*6/17/2009*	*6/17/2009*	*7/23/2009*	*7/23/2009*	*6/10/2009*
							Duplicate	
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	ND (1.6)	13.4 J	ND (1.6)	2.5 J	2.3 J	3.8 J
Potassium	ug/L	121000	3560 J	1330 J	1590 J	3260 J	3290 J	1570 J
Potassium (Dissolved)	ug/L	118000 J	3530 J	1320 J	1590 J	3170 J	3170 J	1600 J
Selenium	ug/L	3.6 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	ug/L	5.5	0.75 J	ND (0.97) U	ND (2.1) U	ND (0.68)	ND (0.68)	ND (0.68)
Silver (Dissolved)	ug/L	3.2 J	ND (0.68)	0.68 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	28900	13100	32400	48500	48100	12700
Sodium (Dissolved)	ug/L	2250000	29400	13300	33000	50300	50200	12500
Thallium	ug/L	6.1 J	ND (2.4)	ND (4.3) U	ND (2.4)	3.6 J	3.8 J	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	2.4 J	ND (5.9) U	ND (3.6) U	4.6 J	4.0 J	ND (2.4)
Vanadium	ug/L	28.8 J	2.2 J	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	ug/L	29.2 J	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	ug/L	254	ND (10.9) U	22.1	ND (4.1) U	2.5 J	2.6 J	ND (6.6) U
Zinc (Dissolved)	ug/L	170	ND (2.5)	25.8	ND (3.9) U	ND (2.5)	ND (2.5)	ND (8.2) U
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0025)	ND (0.0026)	ND (0.0025)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0025)	ND (0.0025)	ND (0.0025)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0030)	ND (0.0030)	ND (0.0029)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	0.029	ND (0.0018)	0.28	ND (0.0019)	ND (0.0019)	ND (0.0018)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0022)	ND (0.0022)	ND (0.0022)	0.034	0.033	ND (0.0023)
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0014)	ND (0.0014)	ND (0.0013)
Gases								
Carbon dioxide	ug/L	160000	40000	21000	5100	81000	81000	15000
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	102	11.1	99.4	125	138	11.3
Ammonia	mg/L	11.1	3.5	0.47	2.6	6.3	8.5	0.64
Chloride	mg/L	3900	42.1	19.3	32.8	71.4 J	71.7 J	16.4
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	12.3	1.3	4.3	24.6	24.7	1.7
Nitrate (as N)	mg/L	6.5	ND (0.0077)	0.50	ND (0.0077)	ND (0.0077)	ND (0.0077)	0.58
Nitrite (as N)	mg/L	1.5	0.056	ND (0.0032)	ND (0.0032)	0.088	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	601	ND (0.031)	54.9	30.8	14.5 J	2.9 J	51.0

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-7-80*	*MW-7-80*	*MW-8*	*MW-8-83*	*MW-9*	*MW-9-15*
Sample ID:			*GW-15620-061009-RR-007*	*GW-15620-061009-RR-011*	*GW-15620-071009-DS-038*	*GW-15620-070109-MM-016*	*GW-15620-072309-RR-081*	*GW-15620-070609-DS-018*
Sample Date:			*6/10/2009*	*6/10/2009*	*7/10/2009*	*7/1/2009*	*7/23/2009*	*7/6/2009*
				Duplicate				
Parameter	*Units*	*Max*						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	ug/L	0.52 J	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	0.52 J
1,1-Dichloroethene	ug/L	ND	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	ug/L	1300	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
1,2,4-Trichlorobenzene	ug/L	6300	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	ug/L	8300	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
1,2-Dichloroethane	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	ug/L	ND	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	ug/L	1900	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
1,4-Dichlorobenzene	ug/L	3100	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)
2-Hexanone	ug/L	ND	ND (0.16)	ND (0.16)	ND (0.16) UJ	ND (0.16)	ND (0.16)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Acetone	ug/L	7.4 J	3.0 J	6.2	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)
Benzene	ug/L	230 J	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Bromodichloromethane	ug/L	4.2	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Bromoform	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)
Carbon disulfide	ug/L	2.8	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21) UJ	ND (0.21)
Carbon tetrachloride	ug/L	ND	ND (0.14) UJ	ND (0.14) UJ	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Chlorobenzene	ug/L	19000	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Chloroethane	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	ug/L	23	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28) UJ	ND (0.28)
cis-1,2-Dichloroethene	ug/L	49	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Cyclohexane	ug/L	9.8	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Dibromochloromethane	ug/L	0.39 J	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (0.19)	ND (0.19) UJ	ND (0.19) UJ	ND (0.19) UJ	ND (0.19)	ND (0.19)
Ethylbenzene	ug/L	15 J	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Isopropylbenzene	ug/L	6.2 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
Methyl acetate	ug/L	ND	ND (0.14)	ND (0.14)	ND (0.14) UJ	ND (0.14)	ND (0.14)	ND (0.14)
Methyl cyclohexane	ug/L	54	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	ug/L	12 J	0.30 J	0.30 J	ND (0.18)	0.27 J	10	ND (0.18)
Methylene chloride	ug/L	170 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Styrene	ug/L	ND	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)
Tetrachloroethene	ug/L	ND	ND (0.15)	ND (0.15)	ND (0.15) UJ	ND (0.15)	ND (0.15)	ND (0.15)
Toluene	ug/L	6100	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
trans-1,3-Dichloropropene	ug/L	ND	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Trichloroethene	ug/L	480	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Vinyl chloride	ug/L	11	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Xylene (total)	ug/L	36 J	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-7-80*	*MW-7-80*	*MW-8*	*MW-8-83*	*MW-9*	*MW-9-15*
Sample ID:			*GW-15620-061009-RR-007*	*GW-15620-061009-RR-011*	*GW-15620-071009-DS-038*	*GW-15620-070109-MM-016*	*GW-15620-072309-RR-081*	*GW-15620-070609-DS-018*
Sample Date:			*6/10/2009*	*6/10/2009*	*7/10/2009*	*7/1/2009*	*7/23/2009*	*7/6/2009*
				Duplicate				
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.37)	ND (0.33)
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.14)	ND (0.14)	ND (0.14)	R	ND (0.16)	ND (0.14)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.086)	ND (0.085)	ND (0.085)	R	ND (0.098)	ND (0.085)
2,4-Dichlorophenol	ug/L	7.7	ND (0.13)	ND (0.13)	ND (0.13)	R	ND (0.15)	ND (0.13)
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.076)	ND (0.076)	ND (0.076)	R	ND (0.087)	ND (0.076)
2,4-Dinitrophenol	ug/L	680	ND (5.8)	ND (5.8)	ND (5.8)	R	ND (6.6)	ND (5.8)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)
2,6-Dinitrotoluene	ug/L	ND	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.21)	ND (0.18)
2-Chloronaphthalene	ug/L	20	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.14)
2-Chlorophenol	ug/L	27 J	ND (0.20)	ND (0.20)	ND (0.20)	R	ND (0.23)	ND (0.20)
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)
2-Methylphenol	ug/L	15 J	ND (0.13)	ND (0.13)	ND (0.13)	R	ND (0.15)	ND (0.13)
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)
2-Nitrophenol	ug/L	2.3 J	ND (0.13)	ND (0.13)	ND (0.13)	R	ND (0.15)	ND (0.13)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.39)	ND (0.34)
3-Nitroaniline	ug/L	0.98 J	ND (0.25)	ND (0.24)	ND (0.24)	ND (0.25)	ND (0.28)	ND (0.24)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.4)	ND (7.3)	ND (7.3)	R	ND (8.4)	ND (7.3)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.20)	ND (0.18)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.24)	ND (0.24)	ND (0.24)	R	ND (0.27)	ND (0.24)
4-Chloroaniline	ug/L	4.2 J	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.2)	ND (1.0)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.099)	ND (0.098)	ND (0.098)	ND (0.099)	ND (0.11)	ND (0.098)
4-Methylphenol	ug/L	16 J	ND (0.17)	ND (0.17)	ND (0.17)	R	ND (0.19)	ND (0.17)
4-Nitroaniline	ug/L	0.80 J	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.25)	ND (0.21)
4-Nitrophenol	ug/L	ND	ND (6.7)	ND (6.6)	ND (6.6)	R	ND (7.6) UJ	ND (6.6)
Acenaphthene	ug/L	1.5 J	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.14)
Acenaphthylene	ug/L	0.80 J	ND (0.080)	ND (0.080)	ND (0.080)	ND (0.080)	ND (0.091)	ND (0.080)
Acetophenone	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.21)
Aniline	ug/L	2900	ND (0.39)	ND (0.38)	ND (0.38)	ND (0.39)	ND (0.44)	ND (0.38)
Anthracene	ug/L	ND	ND (0.99)	ND (0.98)	ND (0.98)	ND (0.99)	ND (1.1)	ND (0.98)
Atrazine	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.19)
Benzaldehyde	ug/L	9.2 J	ND (0.48)	ND (0.47)	ND (0.47)	ND (0.48)	ND (0.54)	ND (0.47)
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.13)	ND (0.11)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.18)	ND (0.15)
Benzo(g,h,i)perylene	ug/L	7	ND (0.082)	ND (0.081)	ND (0.081)	ND (0.082)	ND (0.094)	ND (0.081)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.18)	ND (0.15)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.17)	ND (0.14)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.28)	ND (0.25)
bis(2-Ethylhexyl)phthalate	ug/L	14	ND (0.44)	ND (0.43)	ND (0.43)	ND (0.44)	ND (0.50)	3.4 J
Butyl benzylphthalate	ug/L	ND	ND (2.9)	ND (2.9)	ND (2.9)	ND (2.9)	ND (3.3)	ND (2.9)
Caprolactam	ug/L	36 J	ND (6.9)	ND (6.8)	ND (6.8)	ND (6.9)	ND (7.8)	ND (6.8)
Carbazole	ug/L	1.0 J	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
Chrysene	ug/L	4.3	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.12)	ND (0.10)
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.14)	ND (0.12)
Dibenzofuran	ug/L	0.92 J	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.20)	ND (0.17)
Diethyl phthalate	ug/L	30	ND (0.43)	ND (0.42)	ND (0.42)	ND (0.43)	ND (0.48)	ND (0.42)
Dimethyl phthalate	ug/L	ND	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.32)	ND (0.28)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-7-80*	*MW-7-80*	*MW-8*	*MW-8-83*	*MW-9*	*MW-9-15*
Sample ID:			*GW-15620-061009-RR-007*	*GW-15620-061009-RR-011*	*GW-15620-071009-DS-038*	*GW-15620-070109-MM-016*	*GW-15620-072309-RR-081*	*GW-15620-070609-DS-018*
Sample Date:			*6/10/2009*	*6/10/2009*	*7/10/2009*	*7/1/2009*	*7/23/2009*	*7/6/2009*
				Duplicate				
Parameter	*Units*	*Max*						
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)
Fluoranthene	ug/L	1.1 J	ND (0.095)	ND (0.094)	ND (0.094)	ND (0.095)	ND (0.11)	ND (0.094)
Fluorene	ug/L	0.95 J	ND (0.094)	ND (0.093)	ND (0.093)	ND (0.094)	ND (0.11)	ND (0.093)
Hexachlorobenzene	ug/L	0.89 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.17)
Hexachlorobutadiene	ug/L	ND	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.13)	ND (0.11)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Hexachloroethane	ug/L	ND	ND (0.073)	ND (0.072)	ND (0.072)	ND (0.073)	ND (0.083)	ND (0.072)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)
Isophorone	ug/L	0.93 J	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.31)	ND (0.27)
Naphthalene	ug/L	2200	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.30)	ND (0.26)
Nitrobenzene	ug/L	15000	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.37)	ND (0.36)	ND (0.36)	ND (0.37)	ND (0.42)	ND (0.36)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.53)	ND (0.46)
Pentachlorophenol	ug/L	ND	ND (1.8)	ND (1.8)	ND (1.8)	R	ND (2.0)	ND (1.8)
Phenanthrene	ug/L	1.2 J	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.31)	ND (0.27)
Phenol	ug/L	0.83 J	ND (0.22)	ND (0.22)	ND (0.22)	R	ND (0.26)	ND (0.22)
Pyrene	ug/L	1.4 J	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.12)	ND (0.10)
Metals								
Aluminum	ug/L	3440	ND (50.5) U	ND (42.1) U	ND (36.6) U	ND (33.6) U	136 J	-
Aluminum (Dissolved)	ug/L	1170	ND (24.4) U	ND (23.9) U	ND (29.5) U	ND (28.5) U	16.0 J	-
Antimony	ug/L	2.3 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	-
Antimony (Dissolved)	ug/L	5.1 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	-
Arsenic	ug/L	436	ND (2.7)	ND (2.7)	ND (2.7)	3.5 J	7.3 J	-
Arsenic (Dissolved)	ug/L	448	ND (2.7)	ND (2.7)	ND (2.7)	3.5 J	5.0 J	-
Barium	ug/L	626	14.6 J	ND (12.8) U	17.5 J	65.9 J	138 J	-
Barium (Dissolved)	ug/L	679	14.5 J	13.3 J	18.4 J	66.9 J	170 J	-
Beryllium	ug/L	ND	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	-
Beryllium (Dissolved)	ug/L	ND	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	-
Cadmium	ug/L	8.3	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	0.31 J	-
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.25) U	-
Calcium	ug/L	219000	43300	42500	44700	43600	21700	-
Calcium (Dissolved)	ug/L	226000	44000	44400	47900	44000	23900	-
Chromium	ug/L	90.6	ND (0.57)	ND (0.57)	ND (1.1) U	ND (0.57)	2.0 J	-
Chromium Total (Dissolved)	ug/L	17.4	ND (0.57)	ND (0.57)	0.58 J	ND (0.57)	1.6 J	-
Cobalt	ug/L	113	ND (0.40)	ND (0.40)	0.54 J	ND (0.40)	ND (0.40)	-
Cobalt (Dissolved)	ug/L	108	ND (0.40)	ND (0.40)	ND (1.0) U	0.42 J	ND (0.40)	-
Copper	ug/L	294	ND (2.7)	ND (2.7)	3.2 J	ND (2.7)	ND (2.7)	-
Copper (Dissolved)	ug/L	54.6	ND (2.7)	ND (2.7)	2.9 J	ND (2.7)	4.2 J	-
Iron	ug/L	94400	472	485	221	65.9 J	60400	-
Iron (Dissolved)	ug/L	97700	330	360	157	54.0 J	62500	-
Lead	ug/L	70.9	1.5 J	ND (1.3)	ND (1.3)	ND (1.3)	2.5 J	-
Lead (Dissolved)	ug/L	41.2	1.4 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	-
Magnesium	ug/L	265000	6290	6220	1130 J	6690	5250	-
Magnesium (Dissolved)	ug/L	261000	6410	6520	1220 J	6750	5290	-
Manganese	ug/L	14300	407	381	174	715	1070	-
Manganese (Dissolved)	ug/L	14100	396	385	191	731	1070	-
Mercury	ug/L	6.9	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	0.039 J	-
Mercury (Dissolved)	ug/L	0.38	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	-
Nickel	ug/L	148	ND (1.6)	ND (1.6)	2.0 J	ND (1.6)	2.0 J	-

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-7-80*	*MW-7-80*	*MW-8*	*MW-8-83*	*MW-9*	*MW-9-15*
Sample ID:			*GW-15620-061009-RR-007*	*GW-15620-061009-RR-011*	*GW-15620-071009-DS-038*	*GW-15620-070109-MM-016*	*GW-15620-072309-RR-081*	*GW-15620-070609-DS-018*
Sample Date:			*6/10/2009*	*6/10/2009*	*7/10/2009*	*7/1/2009*	*7/23/2009*	*7/6/2009*
				Duplicate				
Parameter	*Units*	*Max*						
Nickel (Dissolved)	ug/L	88.5	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	1.6 J	-
Potassium	ug/L	121000	1500 J	1400 J	4680 J	1000 J	6860	-
Potassium (Dissolved)	ug/L	118000 J	1580 J	1490 J	5220	1040 J	6640	-
Selenium	ug/L	3.6 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	-
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	-
Silver	ug/L	5.5	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	1.2 J	-
Silver (Dissolved)	ug/L	3.2 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	-
Sodium	ug/L	2300000	12700	12600	28900	12900	47400	-
Sodium (Dissolved)	ug/L	2250000	12800	12800	31000	13100	45700	-
Thallium	ug/L	6.1 J	ND (3.7) U	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	-
Thallium (Dissolved)	ug/L	6.1 J	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	-
Vanadium	ug/L	28.8 J	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	1.9 J	-
Vanadium (Dissolved)	ug/L	29.2 J	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	-
Zinc	ug/L	254	ND (10.6) U	ND (6.2) U	6.7 J	ND (2.5)	ND (2.5)	-
Zinc (Dissolved)	ug/L	170	ND (17.7) U	ND (10.6) U	9.2 J	3.4 J	9.1 J	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0025)	ND (0.0024)	ND (0.0024)	ND (0.0025)	ND (0.0025)	ND (0.0024)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0025)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0023)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0029)	ND (0.0028)	ND (0.0028)	ND (0.0029)	ND (0.0029)	ND (0.0028)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	ND (0.0019)	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.0017)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0023)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0021)
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0023)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0014)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
Gases								
Carbon dioxide	ug/L	160000	3500	4000	11000	3100	34000	9900
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	98.5	89.7	170	104	119	41.8
Ammonia	mg/L	11.1	0.090 J	0.54	0.69	0.40	4.0	0.33
Chloride	mg/L	3900	21.8	22.4	21.0	24.8	69.4 J	15.7
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	0.83 J	0.39 J	5.8	1.1	13.2	ND (1.1) U
Nitrate (as N)	mg/L	6.5	0.33	0.40	0.018 J	ND (0.0077)	0.24	2.4 J
Nitrite (as N)	mg/L	1.5	ND (0.0032)	ND (0.0032)	0.23	ND (0.0032)	0.068	ND (0.0032)
Sulfate	mg/L	601	32.0	37.9	8.0	27.2	ND (0.031)	50.8

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-9-15*	*MW-9-15*	*MW-9-70*	*MW-9-70*	*MW-9-70*	*MW-10-14*
Sample ID:			*GW-15620-070609-DS-020*	*GW-15620-070809-DS-020*	*GW-15620-070609-DS-022*	*GW-15620-070809-DS-018*	*GW-15620-070809-DS-022*	*GW-15620-070609-RR-039*
Sample Date:			*7/6/2009*	*7/8/2009*	*7/6/2009*	*7/8/2009*	*7/8/2009*	*7/6/2009*
			Duplicate					
Parameter	*Units*	*Max*						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (0.29)	-	ND (0.29)	-	-	ND (7.2)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (0.20)	-	ND (0.20)	-	-	ND (5.0)
1,1,2-Trichloroethane	ug/L	ND	ND (0.20)	-	ND (0.20)	-	-	ND (5.0)
1,1-Dichloroethane	ug/L	0.52 J	0.50 J	-	ND (0.12)	-	-	ND (2.9)
1,1-Dichloroethene	ug/L	ND	ND (0.30)	-	ND (0.30)	-	-	ND (7.4)
1,2,3-Trichlorobenzene	ug/L	1300	ND (0.15)	-	ND (0.15)	-	-	ND (3.9)
1,2,4-Trichlorobenzene	ug/L	6300	ND (0.27)	-	ND (0.27)	-	-	ND (6.8)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (0.14)	-	ND (0.14)	-	-	ND (3.5)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (0.18)	-	ND (0.18)	-	-	ND (4.5)
1,2-Dichlorobenzene	ug/L	8300	ND (0.15)	-	ND (0.15)	-	-	ND (3.8)
1,2-Dichloroethane	ug/L	ND	ND (0.21)	-	ND (0.21)	-	-	ND (5.3)
1,2-Dichloropropane	ug/L	ND	ND (0.095)	-	ND (0.095)	-	-	ND (2.4)
1,3-Dichlorobenzene	ug/L	1900	ND (0.11)	-	ND (0.11)	-	-	ND (2.6)
1,4-Dichlorobenzene	ug/L	3100	ND (0.21)	-	ND (0.21)	-	-	ND (5.2)
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (0.55)	-	ND (0.55)	-	-	ND (14)
2-Hexanone	ug/L	ND	ND (0.16)	-	ND (0.16)	-	-	ND (4.0)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (0.53)	-	ND (0.53)	-	-	ND (13)
Acetone	ug/L	7.4 J	ND (2.5)	-	ND (2.5)	-	-	ND (62)
Benzene	ug/L	230 J	ND (0.11)	-	ND (0.11)	-	-	ND (2.6)
Bromodichloromethane	ug/L	4.2	ND (0.13)	-	ND (0.13)	-	-	ND (3.2)
Bromoform	ug/L	ND	ND (0.19)	-	ND (0.19)	-	-	ND (4.8)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (0.31)	-	ND (0.31)	-	-	ND (7.8)
Carbon disulfide	ug/L	2.8	ND (0.21)	-	ND (0.21)	-	-	ND (5.3)
Carbon tetrachloride	ug/L	ND	ND (0.14)	-	ND (0.14)	-	-	ND (3.4)
Chlorobenzene	ug/L	19000	ND (0.14)	-	ND (0.14)	-	-	18 J
Chloroethane	ug/L	ND	ND (0.21)	-	ND (0.21)	-	-	ND (5.4)
Chloroform (Trichloromethane)	ug/L	23	ND (0.17)	-	ND (0.17)	-	-	ND (4.3)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (0.28)	-	ND (0.28)	-	-	ND (7.1)
cis-1,2-Dichloroethene	ug/L	49	ND (0.24)	-	ND (0.24)	-	-	49
cis-1,3-Dichloropropene	ug/L	ND	ND (0.19)	-	ND (0.19)	-	-	ND (4.7)
Cyclohexane	ug/L	9.8	ND (0.25)	-	ND (0.25)	-	-	ND (6.4)
Dibromochloromethane	ug/L	0.39 J	ND (0.14)	-	ND (0.14)	-	-	ND (3.4)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (0.19) UJ	-	ND (0.19) UJ	-	-	ND (4.8)
Ethylbenzene	ug/L	15 J	ND (0.23)	-	ND (0.23)	-	-	ND (5.7)
Isopropylbenzene	ug/L	6.2 J	ND (0.16)	-	ND (0.16)	-	-	ND (4.1)
Methyl acetate	ug/L	ND	ND (0.14) UJ	-	ND (0.14) UJ	-	-	ND (3.4)
Methyl cyclohexane	ug/L	54	ND (0.26)	-	ND (0.26)	-	-	ND (6.5)
Methyl Tert Butyl Ether	ug/L	12 J	ND (0.18)	-	ND (0.18)	-	-	ND (4.6)
Methylene chloride	ug/L	170 J	ND (0.15)	-	ND (0.15)	-	-	ND (3.7)
Styrene	ug/L	ND	ND (0.097)	-	ND (0.097)	-	-	ND (2.4)
Tetrachloroethene	ug/L	ND	ND (0.15)	-	ND (0.15)	-	-	ND (3.7)
Toluene	ug/L	6100	ND (0.15)	-	ND (0.15)	-	-	ND (3.8)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (0.17)	-	ND (0.17)	-	-	ND (4.2)
trans-1,3-Dichloropropene	ug/L	ND	ND (0.15)	-	ND (0.15)	-	-	ND (3.7)
Trichloroethene	ug/L	480	ND (0.14)	-	ND (0.14)	-	-	330
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (0.20)	-	ND (0.20)	-	-	ND (5.0)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (0.32)	-	ND (0.32)	-	-	ND (8.0)
Vinyl chloride	ug/L	11	ND (0.23)	-	ND (0.23)	-	-	8.5 J
Xylene (total)	ug/L	36 J	ND (0.49)	-	ND (0.49)	-	-	ND (12)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-9-15*	*MW-9-15*	*MW-9-70*	*MW-9-70*	*MW-9-70*	*MW-10-14*
Sample ID:			*GW-15620-070609-DS-020*	*GW-15620-070809-DS-020*	*GW-15620-070609-DS-022*	*GW-15620-070809-DS-018*	*GW-15620-070809-DS-022*	*GW-15620-070609-RR-039*
Sample Date:			*7/6/2009*	*7/8/2009*	*7/6/2009*	*7/8/2009*	*7/8/2009*	*7/6/2009*
			Duplicate					
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.33)	-	ND (0.33)	-	-	ND (0.36)
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.14)	-	ND (0.15)	-	-	ND (0.16)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.085)	-	ND (0.087)	-	-	ND (0.094)
2,4-Dichlorophenol	ug/L	7.7	ND (0.13)	-	ND (0.13)	-	-	ND (0.14)
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.076)	-	ND (0.077)	-	-	ND (0.084)
2,4-Dinitrophenol	ug/L	680	ND (5.8)	-	ND (5.9)	-	-	ND (6.4)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	-	ND (0.16)	-	-	ND (0.17)
2,6-Dinitrotoluene	ug/L	ND	ND (0.18)	-	ND (0.18)	-	-	ND (0.20)
2-Chloronaphthalene	ug/L	20	ND (0.14)	-	ND (0.15)	-	-	ND (0.16)
2-Chlorophenol	ug/L	27 J	ND (0.20)	-	ND (0.20)	-	-	ND (0.22)
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	-	ND (0.15)	-	-	ND (0.16)
2-Methylphenol	ug/L	15 J	ND (0.13)	-	ND (0.13)	-	-	ND (0.15)
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	-	ND (0.16)	-	-	ND (0.17)
2-Nitrophenol	ug/L	2.3 J	ND (0.13)	-	ND (0.13)	-	-	ND (0.15)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.34)	-	ND (0.35)	-	-	ND (0.38)
3-Nitroaniline	ug/L	0.98 J	ND (0.24)	-	ND (0.25)	-	-	ND (0.27)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.3)	-	ND (7.5)	-	-	ND (8.1)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	-	ND (0.18)	-	-	ND (0.20)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.24)	-	ND (0.24)	-	-	ND (0.26)
4-Chloroaniline	ug/L	4.2 J	ND (1.0)	-	ND (1.0)	-	-	ND (1.1)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.098)	-	ND (0.10)	-	-	ND (0.11)
4-Methylphenol	ug/L	16 J	ND (0.17)	-	ND (0.17)	-	-	ND (0.18)
4-Nitroaniline	ug/L	0.80 J	ND (0.21)	-	ND (0.22)	-	-	ND (0.24)
4-Nitrophenol	ug/L	ND	ND (6.6)	-	ND (6.8)	-	-	ND (7.3)
Acenaphthene	ug/L	1.5 J	ND (0.14)	-	ND (0.14)	-	-	ND (0.15)
Acenaphthylene	ug/L	0.80 J	ND (0.080)	-	ND (0.081)	-	-	ND (0.088)
Acetophenone	ug/L	ND	ND (0.21)	-	ND (0.21)	-	-	ND (0.23)
Aniline	ug/L	2900	ND (0.38)	-	ND (0.39)	-	-	ND (0.42)
Anthracene	ug/L	ND	ND (0.98)	-	ND (1.0)	-	-	ND (1.1)
Atrazine	ug/L	ND	ND (0.19)	-	ND (0.19)	-	-	ND (0.21)
Benzaldehyde	ug/L	9.2 J	ND (0.47)	-	ND (0.48)	-	-	ND (0.52)
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	-	ND (0.17)	-	-	ND (0.18)
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	-	ND (0.11)	-	-	ND (0.12)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.15)	-	ND (0.16)	-	-	ND (0.17)
Benzo(g,h,i)perylene	ug/L	7	ND (0.081)	-	ND (0.083)	-	-	ND (0.090)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.15)	-	ND (0.16)	-	-	ND (0.17)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.14)	-	ND (0.15)	-	-	ND (0.16)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	-	ND (0.13)	-	-	ND (0.14)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.25)	-	ND (0.25)	-	-	ND (0.27)
bis(2-Ethylhexyl)phthalate	ug/L	14	ND (0.43)	-	3.7 J	-	-	ND (0.48)
Butyl benzylphthalate	ug/L	ND	ND (2.9)	-	ND (2.9)	-	-	ND (3.2)
Caprolactam	ug/L	36 J	ND (6.8)	-	ND (6.9)	-	-	ND (7.5)
Carbazole	ug/L	1.0 J	ND (0.13)	-	ND (0.13)	-	-	ND (0.14)
Chrysene	ug/L	4.3	ND (0.10)	-	ND (0.10)	-	-	ND (0.11)
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	-	ND (0.12)	-	-	ND (0.13)
Dibenzofuran	ug/L	0.92 J	ND (0.17)	-	ND (0.18)	-	-	ND (0.19)
Diethyl phthalate	ug/L	30	ND (0.42)	-	0.67 J	-	-	ND (0.47)
Dimethyl phthalate	ug/L	ND	ND (0.13)	-	ND (0.13)	-	-	ND (0.15)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.28)	-	ND (0.29)	-	-	ND (0.31)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-9-15*	*MW-9-15*	*MW-9-70*	*MW-9-70*	*MW-9-70*	*MW-10-14*
Sample ID:			*GW-15620-070609-DS-020*	*GW-15620-070809-DS-020*	*GW-15620-070609-DS-022*	*GW-15620-070809-DS-018*	*GW-15620-070809-DS-022*	*GW-15620-070609-RR-039*
Sample Date:			*7/6/2009*	*7/8/2009*	*7/6/2009*	*7/8/2009*	*7/8/2009*	*7/6/2009*
			Duplicate					
Parameter	***Units***	***Max***						
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	-	ND (0.15)	-	-	ND (0.16)
Fluoranthene	ug/L	1.1 J	ND (0.094)	-	ND (0.096)	-	-	ND (0.10)
Fluorene	ug/L	0.95 J	ND (0.093)	-	ND (0.095)	-	-	ND (0.10)
Hexachlorobenzene	ug/L	0.89 J	ND (0.17)	-	ND (0.17)	-	-	ND (0.19)
Hexachlorobutadiene	ug/L	ND	ND (0.11)	-	ND (0.12)	-	-	ND (0.13)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	-	ND (0.11)	-	-	ND (0.12)
Hexachloroethane	ug/L	ND	ND (0.072)	-	ND (0.074)	-	-	ND (0.080)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.15)	-	ND (0.15)	-	-	ND (0.17)
Isophorone	ug/L	0.93 J	ND (0.27)	-	ND (0.28)	-	-	ND (0.30)
Naphthalene	ug/L	2200	ND (0.26)	-	ND (0.27)	-	-	ND (0.29)
Nitrobenzene	ug/L	15000	ND (0.17)	-	ND (0.17)	-	-	ND (0.19)
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.36)	-	ND (0.37)	-	-	ND (0.40)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.46)	-	ND (0.47)	-	-	ND (0.51)
Pentachlorophenol	ug/L	ND	ND (1.8)	-	ND (1.8)	-	-	ND (2.0)
Phenanthrene	ug/L	1.2 J	ND (0.27)	-	ND (0.27)	-	-	ND (0.30)
Phenol	ug/L	0.83 J	ND (0.22)	-	ND (0.23)	-	-	ND (0.25)
Pyrene	ug/L	1.4 J	ND (0.10)	-	ND (0.11)	-	-	ND (0.12)
Metals								
Aluminum	ug/L	3440	-	ND (25.6) U	-	ND (28.2) U	ND (35.9) U	ND (361) U
Aluminum (Dissolved)	ug/L	1170	-	ND (15.0) U	-	ND (14.6) U	ND (19.7) U	ND (76.1) U
Antimony	ug/L	2.3 J	-	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	-	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	ug/L	436	-	ND (2.7)	-	ND (2.7)	12.8	23.1
Arsenic (Dissolved)	ug/L	448	-	ND (2.7)	-	ND (2.7)	13.9	21.3
Barium	ug/L	626	-	6.4 J	-	6.7 J	17.9 J	5.4 J
Barium (Dissolved)	ug/L	679	-	5.8 J	-	5.7 J	17.4 J	ND (2.2) U
Beryllium	ug/L	ND	-	ND (0.23)	-	ND (0.23)	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	ug/L	ND	-	ND (0.23)	-	ND (0.23)	ND (0.23)	ND (0.23)
Cadmium	ug/L	8.3	-	ND (0.13)	-	0.16 J	0.19 J	ND (0.13)
Cadmium (Dissolved)	ug/L	7.9	-	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	ug/L	219000	-	24100	-	24500	52200	8160
Calcium (Dissolved)	ug/L	226000	-	24300	-	23700	53900	8640
Chromium	ug/L	90.6	-	ND (0.57) J	-	ND (0.57) J	ND (0.57) J	ND (2.6) U
Chromium Total (Dissolved)	ug/L	17.4	-	ND (0.57) J	-	ND (0.57) J	ND (0.57) J	ND (1.2) U
Cobalt	ug/L	113	-	0.91 J	-	0.93 J	ND (0.40)	ND (0.58) U
Cobalt (Dissolved)	ug/L	108	-	0.49 J	-	0.57 J	ND (0.40)	ND (0.51) U
Copper	ug/L	294	-	ND (2.7)	-	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	ug/L	54.6	-	ND (2.7)	-	ND (2.7)	ND (2.7)	ND (2.7)
Iron	ug/L	94400	-	130	-	133	225	1430
Iron (Dissolved)	ug/L	97700	-	57.7 J	-	56.8 J	ND (11.9)	629
Lead	ug/L	70.9	-	ND (1.3)	-	1.8 J	1.8 J	7.6
Lead (Dissolved)	ug/L	41.2	-	ND (1.3)	-	ND (1.3)	ND (1.3)	1.4 J
Magnesium	ug/L	265000	-	6550	-	6680	3490 J	1260 J
Magnesium (Dissolved)	ug/L	261000	-	6690	-	6520	3640 J	1270 J
Manganese	ug/L	14300	-	134	-	133	25.6	683
Manganese (Dissolved)	ug/L	14100	-	109	-	102	13.3 J	610
Mercury	ug/L	6.9	-	ND (0.038)	-	ND (0.038)	ND (0.038)	ND (0.038)
Mercury (Dissolved)	ug/L	0.38	-	ND (0.038)	-	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	ug/L	148	-	ND (1.6)	-	ND (1.6)	ND (1.6)	2.6 J

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-9-15*	*MW-9-15*	*MW-9-70*	*MW-9-70*	*MW-9-70*	*MW-10-14*
Sample ID:			*GW-15620-070609-DS-020*	*GW-15620-070809-DS-020*	*GW-15620-070609-DS-022*	*GW-15620-070809-DS-018*	*GW-15620-070809-DS-022*	*GW-15620-070609-RR-039*
Sample Date:			*7/6/2009*	*7/8/2009*	*7/6/2009*	*7/8/2009*	*7/8/2009*	*7/6/2009*
			Duplicate					
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	-	ND (1.6)	-	ND (1.6)	ND (1.6)	1.9 J
Potassium	ug/L	121000	-	1510 J	-	1520 J	ND (766) U	1140 J
Potassium (Dissolved)	ug/L	118000 J	-	1560 J	-	1520 J	ND (794) U	1110 J
Selenium	ug/L	3.6 J	-	ND (3.0) UJ	-	ND (3.0) UJ	ND (3.0) UJ	ND (3.0)
Selenium (Dissolved)	ug/L	4.0 J	-	ND (3.0) UJ	-	ND (3.0) UJ	ND (3.0) UJ	ND (3.0)
Silver	ug/L	5.5	-	ND (0.68)	-	ND (0.68)	ND (0.68)	ND (0.68)
Silver (Dissolved)	ug/L	3.2 J	-	ND (0.68)	-	ND (0.68)	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	-	18400	-	18600	10800	66200
Sodium (Dissolved)	ug/L	2250000	-	18600	-	18200	11100	64200
Thallium	ug/L	6.1 J	-	ND (2.4)	-	ND (2.4)	ND (2.4)	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	-	ND (2.4)	-	ND (2.4)	ND (2.6) U	ND (2.4)
Vanadium	ug/L	28.8 J	-	ND (1.9)	-	ND (1.9)	ND (1.9)	6.2 J
Vanadium (Dissolved)	ug/L	29.2 J	-	ND (1.9)	-	ND (1.9)	ND (1.9)	4.5 J
Zinc	ug/L	254	-	ND (12.7) U	-	ND (5.0) U	ND (8.7) U	8.5 J
Zinc (Dissolved)	ug/L	170	-	ND (9.2) U	-	ND (5.0) U	ND (10.8) U	ND (2.5)
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0024)	-	ND (0.0024)	-	-	ND (0.0024)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0024)	-	ND (0.0024)	-	-	ND (0.0024)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0028)	-	ND (0.0028)	-	-	ND (0.0028)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	ND (0.0018)	-	ND (0.0018)	-	-	ND (0.0018)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0022)	-	ND (0.0022)	-	-	ND (0.0022)
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0022)	-	ND (0.0022)	-	-	ND (0.0022)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0013)	-	ND (0.0013)	-	-	ND (0.0013)
Gases								
Carbon dioxide	ug/L	160000	11000	-	ND (210)	-	-	ND (210)
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	50.4	-	65.9	-	-	75.8
Ammonia	mg/L	11.1	0.47	-	0.15	-	-	0.94
Chloride	mg/L	3900	15.6	-	36.2	-	-	8.4
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	ND (0.80) U	-	ND (0.54) U	-	-	5.5
Nitrate (as N)	mg/L	6.5	ND (0.0077) UJ	-	ND (0.0077)	-	-	ND (0.0077)
Nitrite (as N)	mg/L	1.5	ND (0.0032)	-	ND (0.064) U	-	-	ND (0.0032)
Sulfate	mg/L	601	50.9	-	51.9	-	-	12.8

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-10-14*	*MW-10-40*	*MW-10-40*	*MW-11R-14*	*MW-12-19*	*MW-12-D*
Sample ID:			*GW-15620-100709-SD-003*	*GW-15620-070609-RR-037*	*GW-15620-100709-SD-004*	*GW-15620-072309-RR-087*	*GW-15620-072209-RR-075*	*GW-15620-072209-RR-071*
Sample Date:			*10/7/2009*	*7/6/2009*	*10/7/2009*	*7/23/2009*	*7/22/2009*	*7/22/2009*
Parameter	*Units*	*Max*						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (7.2)	ND (0.29)	ND (0.29)	ND (0.29)	ND (3.6)	ND (0.29)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (5.0)	ND (0.20)	ND (0.20)	ND (0.20)	ND (2.5)	ND (0.19)
1,1,2-Trichloroethane	ug/L	ND	ND (5.0)	ND (0.20)	ND (0.20)	ND (0.20)	ND (2.5)	ND (4.8)
1,1-Dichloroethane	ug/L	0.52 J	ND (2.9)	ND (0.12)	ND (0.12)	ND (0.12)	ND (1.5)	ND (0.12)
1,1-Dichloroethene	ug/L	ND	ND (7.4)	ND (0.30)	ND (0.30)	ND (0.30)	ND (3.7)	ND (0.30)
1,2,3-Trichlorobenzene	ug/L	1300	ND (3.9)	ND (0.15)	ND (0.15)	ND (0.15)	19	ND (0.15)
1,2,4-Trichlorobenzene	ug/L	6300	ND (6.8)	ND (0.27)	ND (0.27)	ND (0.27)	64	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (3.5)	ND (0.14)	ND (0.14)	ND (0.14)	ND (1.8)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (4.5)	ND (0.18)	ND (0.18)	ND (0.18)	ND (2.3)	ND (0.18)
1,2-Dichlorobenzene	ug/L	8300	ND (3.8)	ND (0.15)	0.31	2.9	61	ND (0.15)
1,2-Dichloroethane	ug/L	ND	ND (5.3)	ND (0.21)	ND (0.21)	ND (0.21)	ND (2.6)	ND (0.21)
1,2-Dichloropropane	ug/L	ND	ND (2.4)	ND (0.095)	ND (0.095)	ND (0.095)	ND (1.2)	ND (2.4)
1,3-Dichlorobenzene	ug/L	1900	ND (2.6)	ND (0.11)	0.50	4.8	31	ND (0.11)
1,4-Dichlorobenzene	ug/L	3100	ND (5.2)	ND (0.21)	1.9	4.0	88	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (14)	ND (0.55)	ND (0.55)	ND (0.55)	ND (6.8)	ND (0.19)
2-Hexanone	ug/L	ND	ND (4.0)	ND (0.16)	ND (0.16)	ND (0.16)	ND (2.0)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (13)	ND (0.53)	ND (0.53)	ND (0.53)	ND (6.6)	ND (0.53)
Acetone	ug/L	7.4 J	ND (62)	ND (2.5)	ND (2.5)	ND (2.5)	ND (31)	ND (2.5)
Benzene	ug/L	230 J	ND (2.6)	ND (0.11)	ND (0.11)	0.22 J	1.8 J	ND (0.11)
Bromodichloromethane	ug/L	4.2	ND (3.2)	ND (0.13)	ND (0.13)	ND (0.13)	ND (1.6)	ND (0.13)
Bromoform	ug/L	ND	ND (4.8)	ND (0.19)	ND (0.19)	ND (0.19)	ND (2.4)	ND (0.19)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (7.8)	ND (0.31)	ND (0.31)	ND (0.31)	ND (3.9) UJ	ND (0.31) UJ
Carbon disulfide	ug/L	2.8	ND (5.3)	ND (0.21)	ND (0.21)	ND (0.21) UJ	ND (2.6)	ND (0.21)
Carbon tetrachloride	ug/L	ND	ND (3.4)	ND (0.14)	ND (0.14)	ND (0.14)	ND (1.7)	ND (0.14)
Chlorobenzene	ug/L	19000	ND (3.4)	ND (0.14)	0.19	18	400	ND (0.14)
Chloroethane	ug/L	ND	ND (5.4)	ND (0.21)	ND (0.21)	ND (0.21)	ND (2.7)	ND (0.21)
Chloroform (Trichloromethane)	ug/L	23	ND (4.3)	ND (0.17)	ND (0.17)	ND (0.17)	ND (2.1)	ND (0.17)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (7.1)	ND (0.28)	ND (0.28)	ND (0.28) UJ	ND (3.5)	ND (0.28)
cis-1,2-Dichloroethene	ug/L	49	33	ND (0.24)	ND (0.24)	35	ND (3.0)	ND (0.24)
cis-1,3-Dichloropropene	ug/L	ND	ND (4.7)	ND (0.19)	ND (0.19)	ND (0.19)	ND (2.3)	ND (0.19)
Cyclohexane	ug/L	9.8	ND (6.4)	ND (0.25)	ND (0.25)	ND (0.25)	ND (3.2)	ND (0.25)
Dibromochloromethane	ug/L	0.39 J	ND (3.4)	ND (0.14)	ND (0.14)	ND (0.14)	ND (1.7)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (4.8)	ND (0.19)	ND (0.19)	ND (0.19)	ND (2.4) UJ	ND (0.19) UJ
Ethylbenzene	ug/L	15 J	ND (5.7)	ND (0.23)	ND (0.23)	ND (0.23)	ND (2.8)	ND (0.23)
Isopropylbenzene	ug/L	6.2 J	ND (4.1)	ND (0.16)	ND (0.16)	ND (0.16)	ND (2.0)	ND (0.16)
Methyl acetate	ug/L	ND	ND (3.4)	ND (0.14)	ND (0.14)	ND (0.14)	ND (1.7)	ND (0.19)
Methyl cyclohexane	ug/L	54	ND (6.5)	ND (0.26)	ND (0.26)	ND (0.26)	ND (3.3)	ND (0.26)
Methyl Tert Butyl Ether	ug/L	12 J	ND (4.6)	ND (0.18)	ND (0.18)	ND (0.18)	ND (2.3)	ND (0.18)
Methylene chloride	ug/L	170 J	8.6	ND (0.15)	ND (0.15)	ND (0.15)	ND (1.9)	ND (0.15)
Styrene	ug/L	ND	ND (2.4)	ND (0.097)	ND (0.097)	ND (0.097)	ND (1.2)	ND (0.097)
Tetrachloroethene	ug/L	ND	ND (3.7)	ND (0.15)	ND (0.15)	ND (0.15)	ND (1.9)	ND (0.15)
Toluene	ug/L	6100	ND (3.8)	ND (0.15)	ND (0.15)	ND (0.15)	26	ND (0.15)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (4.2)	ND (0.17)	ND (0.17)	0.59 J	ND (2.1)	ND (0.17)
trans-1,3-Dichloropropene	ug/L	ND	ND (3.7)	ND (0.15)	ND (0.15)	ND (0.15)	ND (1.8)	ND (0.15)
Trichloroethene	ug/L	480	480	ND (0.14)	ND (0.14)	5.5	ND (1.8)	ND (0.19)
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (5.0)	ND (0.20)	ND (0.20)	ND (0.20)	ND (2.5) UJ	ND (0.20) UJ
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (8.0)	ND (0.32)	ND (0.32)	ND (0.32)	ND (4.0)	ND (240)
Vinyl chloride	ug/L	11	ND (5.7)	ND (0.23)	ND (0.23)	11	ND (2.8)	ND (0.23)
Xylene (total)	ug/L	36 J	ND (12)	ND (0.49)	ND (0.49)	ND (0.49)	ND (6.1)	ND (0.49)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-10-14*	*MW-10-40*	*MW-10-40*	*MW-11R-14*	*MW-12-19*	*MW-12-D*
Sample ID:			*GW-15620-100709-SD-003*	*GW-15620-070609-RR-037*	*GW-15620-100709-SD-004*	*GW-15620-072309-RR-087*	*GW-15620-072209-RR-075*	*GW-15620-072209-RR-071*
Sample Date:			*10/7/2009*	*7/6/2009*	*10/7/2009*	*7/23/2009*	*7/22/2009*	*7/22/2009*
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.34)	ND (0.33)	ND (0.33)	ND (0.36)	ND (0.33)	ND (0.34)
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.14)	ND (0.15)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.089)	ND (0.086)	ND (0.086)	ND (0.094)	ND (0.085)	ND (0.088)
2,4-Dichlorophenol	ug/L	7.7	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.079)	ND (0.076)	ND (0.076)	ND (0.083)	ND (0.076)	ND (0.078)
2,4-Dinitrophenol	ug/L	680	ND (6.0)	ND (5.8)	ND (5.8)	ND (6.3)	ND (5.8)	ND (6.0)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	ug/L	ND	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.20)	ND (0.18)	ND (0.19)
2-Chloronaphthalene	ug/L	20	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.14)	ND (0.15)
2-Chlorophenol	ug/L	27 J	ND (0.21)	ND (0.20)	ND (0.20)	ND (0.22)	ND (0.20)	ND (0.20)
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)
2-Methylphenol	ug/L	15 J	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.14)
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)
2-Nitrophenol	ug/L	2.3 J	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.14)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.37)	ND (0.34)	ND (0.35)
3-Nitroaniline	ug/L	0.98 J	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.27)	ND (0.24)	ND (0.25)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.6)	ND (7.4)	ND (7.4)	ND (8.0)	ND (7.3)	ND (7.6)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.18)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.25)	ND (0.24)	ND (0.24)	ND (0.26)	ND (0.24)	ND (0.25)
4-Chloroaniline	ug/L	4.2 J	ND (1.1)	ND (1.0)	ND (1.0)	ND (1.1)	ND (1.0)	ND (1.1)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.10)	ND (0.099)	ND (0.099)	ND (0.11)	ND (0.098)	ND (0.10)
4-Methylphenol	ug/L	16 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	0.52 J	ND (0.17)
4-Nitroaniline	ug/L	0.80 J	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.21)	ND (0.22)
4-Nitrophenol	ug/L	ND	ND (6.9)	ND (6.7)	ND (6.7)	ND (7.2) UJ	ND (6.6)	ND (6.8)
Acenaphthene	ug/L	1.5 J	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)
Acenaphthylene	ug/L	0.80 J	ND (0.083)	ND (0.080)	ND (0.080)	ND (0.087)	ND (0.080)	ND (0.082)
Acetophenone	ug/L	ND	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.21)
Aniline	ug/L	2900	ND (0.40)	ND (0.39)	ND (0.39)	ND (0.42)	ND (0.38)	ND (0.40)
Anthracene	ug/L	ND	ND (1.0)	ND (0.99)	ND (0.99)	ND (1.1)	ND (0.98)	ND (1.0)
Atrazine	ug/L	ND	ND (0.20)	ND (0.19)	ND (0.19)	ND (0.21)	ND (0.19)	ND (0.20)
Benzaldehyde	ug/L	9.2 J	ND (0.49)	ND (0.48)	ND (0.48)	ND (0.52)	ND (0.47)	ND (0.49)
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.16)
Benzo(g,h,i)perylene	ug/L	7	ND (0.085)	ND (0.082)	ND (0.082)	ND (0.089)	ND (0.081)	ND (0.084)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.16)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.15)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.26)	ND (0.25)	ND (0.25)	ND (0.27)	ND (0.25)	ND (0.26)
bis(2-Ethylhexyl)phthalate	ug/L	14	ND (0.45)	ND (0.44)	ND (0.44)	ND (0.48)	3.9 J	ND (0.45)
Butyl benzylphthalate	ug/L	ND	ND (3.0)	ND (2.9)	ND (2.9)	ND (3.2)	ND (2.9)	ND (3.0)
Caprolactam	ug/L	36 J	ND (7.1)	ND (6.9)	ND (6.9)	ND (7.4)	ND (6.8)	ND (7.0)
Carbazole	ug/L	1.0 J	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
Chrysene	ug/L	4.3	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.10)
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.12)	ND (0.12)
Dibenzofuran	ug/L	0.92 J	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.17)	ND (0.18)
Diethyl phthalate	ug/L	30	ND (0.44)	ND (0.43)	ND (0.43)	ND (0.46)	ND (0.42)	ND (0.44)
Dimethyl phthalate	ug/L	ND	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.14)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.31)	ND (0.28)	ND (0.29)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-10-14*	*MW-10-40*	*MW-10-40*	*MW-11R-14*	*MW-12-19*	*MW-12-D*
Sample ID:			*GW-15620-100709-SD-003*	*GW-15620-070609-RR-037*	*GW-15620-100709-SD-004*	*GW-15620-072309-RR-087*	*GW-15620-072209-RR-075*	*GW-15620-072209-RR-071*
Sample Date:			*10/7/2009*	*7/6/2009*	*10/7/2009*	*7/23/2009*	*7/22/2009*	*7/22/2009*
Parameter	*Units*	*Max*						
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)
Fluoranthene	ug/L	1.1 J	ND (0.098)	ND (0.095)	ND (0.095)	ND (0.10)	ND (0.094)	ND (0.097)
Fluorene	ug/L	0.95 J	ND (0.097)	ND (0.094)	ND (0.094)	ND (0.10)	ND (0.093)	ND (0.096)
Hexachlorobenzene	ug/L	0.89 J	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.18)
Hexachlorobutadiene	ug/L	ND	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.12)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)
Hexachloroethane	ug/L	ND	ND (0.075)	ND (0.073)	ND (0.073)	ND (0.079)	ND (0.072)	ND (0.074)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.16)
Isophorone	ug/L	0.93 J	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.30)	ND (0.27)	ND (0.28)
Naphthalene	ug/L	2200	ND (0.27)	ND (0.26)	ND (0.26)	ND (0.29)	1.1 J	ND (0.27)
Nitrobenzene	ug/L	15000	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.19)	4.4	ND (0.17)
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.38)	ND (0.37)	ND (0.37)	ND (0.40)	ND (0.36)	ND (0.37)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.48)	ND (0.46)	ND (0.46)	ND (0.50)	ND (0.46)	ND (0.47)
Pentachlorophenol	ug/L	ND	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.9)	ND (1.8)	ND (1.8)
Phenanthrene	ug/L	1.2 J	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.29)	ND (0.27)	ND (0.28)
Phenol	ug/L	0.83 J	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.23)
Pyrene	ug/L	1.4 J	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)
Metals								
Aluminum	ug/L	3440	810	ND (232) U	144	42.5 J	542	456
Aluminum (Dissolved)	ug/L	1170	50.0	ND (20.6) U	ND (9.7)	26.2 J	ND (69.9) U	ND (38.0) U
Antimony	ug/L	2.3 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	2.7	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	ug/L	436	17.0	31.6	27.1	6.8 J	6.1 J	3.6 J
Arsenic (Dissolved)	ug/L	448	20.2	31.3	25.8	7.6 J	5.0 J	4.4 J
Barium	ug/L	626	10.8	16.0 J	14.0	40.0 J	26.3 J	146 J
Barium (Dissolved)	ug/L	679	4.6	14.3 J	12.8	38.4 J	21.6 J	142 J
Beryllium	ug/L	ND	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.27) U	ND (0.23)
Beryllium (Dissolved)	ug/L	ND	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.32) U	ND (0.28) U
Cadmium	ug/L	8.3	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	ug/L	219000	14100	25300	25300	37000	25400	23300
Calcium (Dissolved)	ug/L	226000	13400	26800	25300	37000	24800	24100
Chromium	ug/L	90.6	1.6	ND (0.57)	ND (0.57)	1.4 J	ND (2.3) U	ND (0.86) U
Chromium Total (Dissolved)	ug/L	17.4	ND (0.57)	ND (0.57)	ND (0.57)	0.98 J	ND (0.75) U	ND (1.6) U
Cobalt	ug/L	113	0.74	ND (0.96) U	0.69	ND (0.40)	4.6 J	ND (0.40)
Cobalt (Dissolved)	ug/L	108	ND (0.40)	ND (0.83) U	0.88	ND (0.40)	4.5 J	ND (0.40)
Copper	ug/L	294	14.5	ND (2.7)	3.4	5.4 J	ND (2.7)	ND (2.7)
Copper (Dissolved)	ug/L	54.6	3.7	ND (2.7)	ND (2.7)	3.7 J	ND (2.7)	ND (2.7)
Iron	ug/L	94400	1480	5370	4310	480	6160	791
Iron (Dissolved)	ug/L	97700	342	4790	3820	177	4070	ND (15.8) U
Lead	ug/L	70.9	8.4	2.4 J	1.3	9.4	3.6	1.7 J
Lead (Dissolved)	ug/L	41.2	ND (1.3)	ND (1.3)	1.3	2.6 J	ND (1.5) U	ND (1.3)
Magnesium	ug/L	265000	1440	4360 J	4310	2520 J	2190 J	4520 J
Magnesium (Dissolved)	ug/L	261000	1470	4610 J	4340	2550 J	2120 J	4800 J
Manganese	ug/L	14300	446	1040	958	689	674	57.0
Manganese (Dissolved)	ug/L	14100	462	1100	989	673	652	39.9
Mercury	ug/L	6.9	0.043	ND (0.038)	ND (0.038)	0.13 J	ND (0.038)	ND (0.038)
Mercury (Dissolved)	ug/L	0.38	ND (0.038)	ND (0.038)	ND (0.038)	0.049 J	ND (0.038)	ND (0.038)
Nickel	ug/L	148	1.7	1.8 J	ND (1.6)	2.8 J	5.4 J	ND (1.6)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-10-14*	*MW-10-40*	*MW-10-40*	*MW-11R-14*	*MW-12-19*	*MW-12-D*
Sample ID:			*GW-15620-100709-SD-003*	*GW-15620-070609-RR-037*	*GW-15620-100709-SD-004*	*GW-15620-072309-RR-087*	*GW-15620-072209-RR-075*	*GW-15620-072209-RR-071*
Sample Date:			*10/7/2009*	*7/6/2009*	*10/7/2009*	*7/23/2009*	*7/22/2009*	*7/22/2009*
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	ND (1.6)	ND (1.6)	ND (1.6)	2.8 J	4.5 J	2.1 J
Potassium	ug/L	121000	2320	1210 J	1190	4480 J	1800 J	ND (686) U
Potassium (Dissolved)	ug/L	118000 J	1810	1130 J	1090	4470 J	1740 J	ND (665) U
Selenium	ug/L	3.6 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	ug/L	5.5	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	0.81 J
Silver (Dissolved)	ug/L	3.2 J	0.80	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	52000	9360	9280	28300	4470 J	9870
Sodium (Dissolved)	ug/L	2250000	53100	9990	9330	28500	4280 J	10400
Thallium	ug/L	6.1 J	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	3.7 J
Vanadium	ug/L	28.8 J	5.9	ND (1.9)	ND (1.9)	5.8 J	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	ug/L	29.2 J	4.1	ND (1.9)	ND (1.9)	4.3 J	ND (1.9)	ND (1.9)
Zinc	ug/L	254	7.9	8.2 J	3.5	8.1 J	ND (11.3) U	ND (21.9) U
Zinc (Dissolved)	ug/L	170	ND (2.5)	2.6 J	ND (2.5)	6.3 J	ND (10.2) U	ND (5.4) U
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0026)	ND (0.0024)	ND (0.0024)	ND (0.0025)	ND (0.0024)	ND (0.0026)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0026)	ND (0.0023)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0026)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0030)	ND (0.0028)	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0030)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	ND (0.0019)	ND (0.0017)	ND (0.0018)	ND (0.0018)	0.034	ND (0.0019)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0024)	ND (0.0021)	ND (0.0022)	0.056	ND (0.0022)	ND (0.0024)
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0024)	ND (0.0022)	ND (0.0022)	0.015	ND (0.0022)	ND (0.0024)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0014)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0014)
Gases								
Carbon dioxide	ug/L	160000	1200	6300	5400	8400	22000	ND (210)
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	142	140	86.8	132	75.6	79.7
Ammonia	mg/L	11.1	0.41	0.19	0.49	0.75	ND (0.59) U	ND (0.52) U
Chloride	mg/L	3900	5.6	8.7	9.1	27.2 J	3.0	3.1
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	3.8	2.5	2.4	7.1	8.0	ND (0.36) U
Nitrate (as N)	mg/L	6.5	0.13	ND (0.050) U	ND (0.0077)	ND (0.0077)	ND (0.0077)	1.4
Nitrite (as N)	mg/L	1.5	0.21	ND (0.0032)	0.18	ND (0.0032)	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	601	5.5	3.2	5.7	4.7	5.6	7.9

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-12-I*	*MW-13-68*	*MW-14-13*	*MW-15R-D*	*MW-15R-I*	*MW-15R-S*
Sample ID:			*GW-15620-072209-RR-073*	*GW-15620-072209-RW-076*	*GW-15620-062509-RR-029*	*GW-15620-061509-RR-019*	*GW-15620-061109-RR-015*	*GW-15620-061109-RR-013*
Sample Date:			*7/22/2009*	*7/22/2009*	*6/25/2009*	*6/15/2009*	*6/11/2009*	*6/11/2009*
Parameter	*Units*	*Max*						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (360)	ND (0.29)	ND (0.29)	ND (110)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (250)	ND (0.20)	ND (0.20)	ND (80)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	ug/L	ND	ND (250)	ND (0.20)	ND (0.20)	ND (81)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	ug/L	0.52 J	ND (150)	ND (0.12)	ND (0.12)	ND (47)	ND (0.12)	ND (0.12)
1,1-Dichloroethene	ug/L	ND	ND (370)	ND (0.30)	ND (0.30)	ND (120)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	ug/L	1300	ND (190)	ND (0.15) UJ	ND (0.15)	1200	ND (0.15)	ND (0.15)
1,2,4-Trichlorobenzene	ug/L	6300	ND (340)	ND (0.27)	ND (0.27)	6300	ND (0.27)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (180)	ND (0.14) UJ	ND (0.14)	ND (56)	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (230)	ND (0.18)	ND (0.18)	ND (72)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	ug/L	8300	410 J	ND (0.15)	ND (0.15)	1800	0.23 J	ND (0.15)
1,2-Dichloroethane	ug/L	ND	ND (260)	ND (0.21)	ND (0.21)	ND (85)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	ug/L	ND	ND (120)	ND (0.095)	ND (0.095)	ND (38)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	ug/L	1900	140 J	ND (0.11)	ND (0.11)	210 J	ND (0.11)	ND (0.11)
1,4-Dichlorobenzene	ug/L	3100	870 J	ND (0.21)	ND (0.21)	ND (82)	ND (0.21)	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (680)	ND (0.55)	ND (0.55) UJ	ND (220) UJ	ND (0.55)	ND (0.55)
2-Hexanone	ug/L	ND	ND (200)	ND (0.16)	ND (0.16) UJ	ND (64)	ND (0.16)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (660)	ND (0.53)	ND (0.53)	ND (210)	ND (0.53)	ND (0.53)
Acetone	ug/L	7.4 J	ND (3100)	ND (2.5)	4.7 J	ND (1000)	ND (2.5)	ND (2.5)
Benzene	ug/L	230 J	ND (130)	ND (0.11)	ND (0.11)	ND (42)	ND (0.11)	ND (0.11)
Bromodichloromethane	ug/L	4.2	ND (160)	ND (0.13)	ND (0.13)	ND (52)	ND (0.13)	ND (0.13)
Bromoform	ug/L	ND	ND (240)	ND (0.19) UJ	ND (0.19)	ND (77)	ND (0.19)	ND (0.19)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (390) UJ	ND (0.31) UJ	ND (0.31) UJ	ND (130)	ND (0.31)	ND (0.31)
Carbon disulfide	ug/L	2.8	ND (260)	ND (0.21)	ND (0.21)	ND (85)	ND (0.21)	ND (0.21)
Carbon tetrachloride	ug/L	ND	ND (170)	ND (0.14)	ND (0.14)	ND (55)	ND (0.14) UJ	ND (0.14) UJ
Chlorobenzene	ug/L	19000	19000	ND (0.14)	0.74 J	5500	ND (0.14)	ND (0.14)
Chloroethane	ug/L	ND	ND (270)	ND (0.21)	ND (0.21)	ND (86)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	ug/L	23	ND (210)	ND (0.17)	ND (0.17)	ND (68)	ND (0.17)	ND (0.17)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (350)	ND (0.28)	ND (0.28)	ND (110)	ND (0.28)	ND (0.28)
cis-1,2-Dichloroethene	ug/L	49	ND (300)	ND (0.24)	ND (0.24)	ND (95)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	ug/L	ND	ND (230)	ND (0.19)	ND (0.19)	ND (75)	ND (0.19)	ND (0.19)
Cyclohexane	ug/L	9.8	ND (320)	ND (0.25)	ND (0.25)	ND (100)	ND (0.25)	ND (0.25)
Dibromochloromethane	ug/L	0.39 J	ND (170)	ND (0.14)	ND (0.14)	ND (55)	ND (0.14)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (240) UJ	ND (0.19)	ND (0.19)	ND (77)	ND (0.19) UJ	ND (0.19) UJ
Ethylbenzene	ug/L	15 J	ND (280)	ND (0.23)	0.78 J	ND (91)	ND (0.23)	ND (0.23)
Isopropylbenzene	ug/L	6.2 J	ND (200)	ND (0.16)	0.42 J	ND (66)	ND (0.16)	ND (0.16)
Methyl acetate	ug/L	ND	ND (170)	ND (0.14)	ND (0.14)	ND (55)	ND (0.14)	ND (0.14)
Methyl cyclohexane	ug/L	54	ND (330)	ND (0.26)	0.64 J	ND (100)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	ug/L	12 J	ND (230)	0.47 J	ND (0.18)	ND (73)	ND (0.18)	ND (0.18)
Methylene chloride	ug/L	170 J	ND (190)	ND (0.15)	ND (0.15)	ND (180) U	ND (0.15)	ND (0.15)
Styrene	ug/L	ND	ND (120)	ND (0.097)	ND (0.097)	ND (39)	ND (0.097)	ND (0.097)
Tetrachloroethene	ug/L	ND	ND (190)	ND (0.15)	ND (0.15)	ND (59)	ND (0.15)	ND (0.15)
Toluene	ug/L	6100	220 J	ND (0.15)	0.66 J	ND (60)	ND (0.15)	ND (0.15)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (210)	ND (0.17)	ND (0.17)	ND (68)	ND (0.17)	ND (0.17)
trans-1,3-Dichloropropene	ug/L	ND	ND (180)	ND (0.15)	ND (0.15)	ND (59)	ND (0.15)	ND (0.15)
Trichloroethene	ug/L	480	ND (180)	ND (0.20) U	ND (0.14)	ND (57)	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (250) UJ	ND (0.20)	ND (0.20)	ND (80)	ND (0.20)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (400)	ND (0.32)	ND (0.32)	ND (130)	ND (0.32)	ND (0.32)
Vinyl chloride	ug/L	11	ND (280)	ND (0.23)	ND (0.23)	ND (91)	ND (0.23)	ND (0.23)
Xylene (total)	ug/L	36 J	ND (610)	ND (0.49)	3.8	ND (200)	ND (0.49)	ND (0.49)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-12-I*	*MW-13-68*	*MW-14-13*	*MW-15R-D*	*MW-15R-I*	*MW-15R-S*
Sample ID:			*GW-15620-072209-RR-073*	*GW-15620-072209-RW-076*	*GW-15620-062509-RR-029*	*GW-15620-061509-RR-019*	*GW-15620-061109-RR-015*	*GW-15620-061109-RR-013*
Sample Date:			*7/22/2009*	*7/22/2009*	*6/25/2009*	*6/15/2009*	*6/11/2009*	*6/11/2009*
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.38)	ND (0.38)	ND (0.33)
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.14)	ND (0.14)	ND (0.14) UJ	ND (0.17)	ND (0.17)	ND (0.14)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.085)	ND (0.085)	ND (0.085) UJ	ND (0.099)	ND (0.099)	ND (0.085)
2,4-Dichlorophenol	ug/L	7.7	1.2 J	ND (0.13)	ND (0.13) UJ	ND (0.15)	ND (0.15)	ND (0.13)
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.076)	ND (0.076)	ND (0.076) UJ	ND (0.088)	ND (0.088)	ND (0.076)
2,4-Dinitrophenol	ug/L	680	ND (5.8)	ND (5.8)	ND (5.8) UJ	ND (6.7)	ND (6.7)	ND (5.8)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.18)	ND (0.16)
2,6-Dinitrotoluene	ug/L	ND	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.21)	ND (0.21)	ND (0.18)
2-Chloronaphthalene	ug/L	20	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.16)	ND (0.14)
2-Chlorophenol	ug/L	27 J	9.5	ND (0.20)	ND (0.20) UJ	ND (0.23)	ND (0.23)	ND (0.20)
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.17)	ND (0.15)
2-Methylphenol	ug/L	15 J	ND (0.13)	ND (0.13)	ND (0.13) UJ	ND (0.15)	ND (0.15)	ND (0.13)
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.18)	ND (0.16)
2-Nitrophenol	ug/L	2.3 J	ND (0.13)	ND (0.13)	ND (0.13) UJ	ND (0.15)	ND (0.15)	ND (0.13)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.39)	ND (0.39)	ND (0.34)
3-Nitroaniline	ug/L	0.98 J	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.28)	ND (0.28)	ND (0.24)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.3)	ND (7.3)	ND (7.3) UJ	ND (8.5)	ND (8.5)	ND (7.3)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.20)	ND (0.20)	ND (0.18)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.24)	ND (0.24)	ND (0.24) UJ	ND (0.28)	ND (0.28)	ND (0.24)
4-Chloroaniline	ug/L	4.2 J	4.2 J	ND (1.0)	ND (1.0)	ND (1.2)	ND (1.2)	ND (1.0)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.098)	ND (0.098)	ND (0.098)	ND (0.11)	ND (0.11)	ND (0.098)
4-Methylphenol	ug/L	16 J	1.1 J	ND (0.17)	ND (0.17) UJ	ND (0.19)	ND (0.19)	ND (0.17)
4-Nitroaniline	ug/L	0.80 J	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.25)	ND (0.25)	ND (0.21)
4-Nitrophenol	ug/L	ND	ND (6.6)	ND (6.6)	ND (6.6) UJ	ND (7.7)	ND (7.7)	ND (6.6)
Acenaphthene	ug/L	1.5 J	ND (0.14)	ND (0.14)	1.5 J	ND (0.16)	ND (0.16)	ND (0.14)
Acenaphthylene	ug/L	0.80 J	ND (0.080)	ND (0.080)	ND (0.080)	ND (0.092)	ND (0.092)	ND (0.080)
Acetophenone	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.24)	ND (0.21)
Aniline	ug/L	2900	2600	ND (0.38)	ND (0.38)	220	ND (0.45)	ND (0.38)
Anthracene	ug/L	ND	ND (0.98)	ND (0.98)	ND (0.98)	ND (1.1)	ND (1.1)	ND (0.98)
Atrazine	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.22)	ND (0.19)
Benzaldehyde	ug/L	9.2 J	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.55)	ND (0.55)	ND (0.47)
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.19)	ND (0.17)
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.13)	ND (0.13)	ND (0.11)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.18)	ND (0.18)	ND (0.15)
Benzo(g,h,i)perylene	ug/L	7	ND (0.081)	ND (0.081)	ND (0.081)	ND (0.094)	ND (0.094)	ND (0.081)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.18)	ND (0.18)	ND (0.15)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.17)	ND (0.17)	ND (0.14)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.15)	ND (0.13)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.29)	ND (0.29)	ND (0.25)
bis(2-Ethylhexyl)phthalate	ug/L	14	ND (0.43)	3.1 J	ND (0.43)	2.3 J	ND (0.50)	ND (0.43)
Butyl benzylphthalate	ug/L	ND	ND (2.9)	ND (2.9)	ND (2.9)	ND (3.3)	ND (3.3)	ND (2.9)
Caprolactam	ug/L	36 J	ND (6.8)	ND (7.0) U	ND (47) U	ND (7.9)	ND (7.9)	ND (6.8)
Carbazole	ug/L	1.0 J	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.15)	ND (0.13)
Chrysene	ug/L	4.3	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.10)
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.14)	ND (0.14)	ND (0.12)
Dibenzofuran	ug/L	0.92 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.17)
Diethyl phthalate	ug/L	30	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.49)	ND (2.1) U	ND (1.7) U
Dimethyl phthalate	ug/L	ND	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.15)	ND (0.13)
Di-n-butylphthalate	ug/L	2.0 J	0.43 J	ND (0.28)	ND (0.28)	ND (0.33)	ND (0.33)	ND (0.28)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-12-I*	*MW-13-68*	*MW-14-13*	*MW-15R-D*	*MW-15R-I*	*MW-15R-S*
Sample ID:			*GW-15620-072209-RR-073*	*GW-15620-072209-RW-076*	*GW-15620-062509-RR-029*	*GW-15620-061509-RR-019*	*GW-15620-061109-RR-015*	*GW-15620-061109-RR-013*
Sample Date:			*7/22/2009*	*7/22/2009*	*6/25/2009*	*6/15/2009*	*6/11/2009*	*6/11/2009*
Parameter	***Units***	***Max***						
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.17)	ND (0.15)
Fluoranthene	ug/L	1.1 J	ND (0.094)	ND (0.094)	ND (0.094)	ND (0.11)	ND (0.11)	ND (0.094)
Fluorene	ug/L	0.95 J	ND (0.093)	ND (0.093)	0.64 J	ND (0.11)	ND (0.11)	ND (0.093)
Hexachlorobenzene	ug/L	0.89 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.17)
Hexachlorobutadiene	ug/L	ND	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.13)	ND (0.13)	ND (0.11)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.13)	ND (0.13)	ND (0.11)
Hexachloroethane	ug/L	ND	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.083)	ND (0.083)	ND (0.072)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.18)	ND (0.18)	ND (0.15)
Isophorone	ug/L	0.93 J	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.31)	ND (0.31)	ND (0.27)
Naphthalene	ug/L	2200	17	ND (0.26)	0.62 J	40	ND (0.30)	ND (0.26)
Nitrobenzene	ug/L	15000	1100	ND (0.17)	ND (0.17)	16	ND (0.20)	ND (0.17)
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.42)	ND (0.42)	ND (0.36)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.53)	ND (0.53)	ND (0.46)
Pentachlorophenol	ug/L	ND	ND (1.8)	ND (1.8)	ND (1.8) UJ	ND (2.0)	ND (2.0)	ND (1.8)
Phenanthrene	ug/L	1.2 J	ND (0.27)	ND (0.27)	0.58 J	ND (0.31)	ND (0.31)	ND (0.27)
Phenol	ug/L	0.83 J	ND (0.22)	ND (0.22)	0.83 J	ND (0.26)	ND (0.26)	ND (0.22)
Pyrene	ug/L	1.4 J	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.10)
Metals								
Aluminum	ug/L	3440	ND (50.3) U	ND (52.2) U	601	ND (197) U	ND (9.7)	45.3 J
Aluminum (Dissolved)	ug/L	1170	ND (50.3) U	ND (39.3) U	596	ND (56.7) U	ND (9.7)	ND (9.7)
Antimony	ug/L	2.3 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	5.1 J	2.9 J
Arsenic	ug/L	436	7.4 J	4.6 J	3.9 J	ND (2.7)	ND (2.7)	4.1 J
Arsenic (Dissolved)	ug/L	448	6.1 J	3.5 J	5.5 J	ND (2.7)	ND (2.7)	ND (2.7)
Barium	ug/L	626	108 J	30.1 J	4.2 J	23.4 J	4.0 J	17.7 J
Barium (Dissolved)	ug/L	679	107 J	25.9 J	4.6 J	22.2 J	4.1 J	18.5 J
Beryllium	ug/L	ND	ND (0.23)	ND (0.26) U	ND (0.23)	ND (0.63) U	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	ug/L	ND	ND (0.23) U	ND (0.23) U	ND (0.23)	ND (0.51) U	ND (0.23)	ND (0.23)
Cadmium	ug/L	8.3	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	ug/L	219000	123000	208000	36100	42200	16500	26200
Calcium (Dissolved)	ug/L	226000	122000	215000	38000	42500	16700	27200
Chromium	ug/L	90.6	ND (4.4) U	ND (1.2) U	ND (0.57)	1.2 J	ND (0.57)	0.59 J
Chromium Total (Dissolved)	ug/L	17.4	ND (4.5) U	ND (1.0) U	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)
Cobalt	ug/L	113	ND (0.40)	2.9 J	ND (0.40)	ND (0.40)	6.5 J	1.3 J
Cobalt (Dissolved)	ug/L	108	ND (0.40)	3.2 J	ND (0.40)	ND (0.40)	6.4 J	1.0 J
Copper	ug/L	294	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	5.1 J
Copper (Dissolved)	ug/L	54.6	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	4.2 J
Iron	ug/L	94400	67300	773	50.1 J	790	ND (11.9)	106
Iron (Dissolved)	ug/L	97700	66600	202	ND (11.9)	484	ND (11.9)	44.9 J
Lead	ug/L	70.9	2.0 J	ND (1.3)	ND (1.3)	1.8 J	ND (1.3)	ND (1.3)
Lead (Dissolved)	ug/L	41.2	ND (1.4) U	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Magnesium	ug/L	265000	42400	39000	78.1 J	6900	2970 J	1720 J
Magnesium (Dissolved)	ug/L	261000	42500	40200	86.8 J	7050	3050 J	1710 J
Manganese	ug/L	14300	14300	3210	2.2 J	585	929	58.3
Manganese (Dissolved)	ug/L	14100	14100	3190	1.5 J	559	915	49.5
Mercury	ug/L	6.9	ND (0.038)	ND (0.038)	0.26	ND (0.038)	ND (0.038)	ND (0.038)
Mercury (Dissolved)	ug/L	0.38	ND (0.038)	ND (0.038)	0.24	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	ug/L	148	ND (1.6)	ND (1.6)	2.1 J	3.1 J	4.0 J	1.8 J

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-12-I*	*MW-13-68*	*MW-14-13*	*MW-15R-D*	*MW-15R-I*	*MW-15R-S*
Sample ID:			*GW-15620-072209-RR-073*	*GW-15620-072209-RW-076*	*GW-15620-062509-RR-029*	*GW-15620-061509-RR-019*	*GW-15620-061109-RR-015*	*GW-15620-061109-RR-013*
Sample Date:			*7/22/2009*	*7/22/2009*	*6/25/2009*	*6/15/2009*	*6/11/2009*	*6/11/2009*
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	ND (1.6)	ND (1.6)	2.0 J	2.6 J	4.5 J	1.7 J
Potassium	ug/L	121000	3200 J	2460 J	6980	ND (1650) U	1290 J	2210 J
Potassium (Dissolved)	ug/L	118000 J	3320 J	2540 J	7330	1550 J	1460 J	2340 J
Selenium	ug/L	3.6 J	ND (3.0)	ND (3.0)	ND (3.0) UJ	ND (3.0)	3.6 J	ND (3.0)
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	ND (3.0)	ND (3.0) UJ	ND (3.0)	ND (3.0)	ND (3.0)
Silver	ug/L	5.5	3.7 J	0.87 J	ND (0.68)	2.1 J	ND (0.68)	ND (0.68)
Silver (Dissolved)	ug/L	3.2 J	3.2 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	123000	237000	11400	15700	8770	6980
Sodium (Dissolved)	ug/L	2250000	125000	246000	11900	15800	9090	7060
Thallium	ug/L	6.1 J	3.0 J	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	3.3 J	ND (2.4)
Vanadium	ug/L	28.8 J	4.9 J	2.3 J	28.8 J	2.5 J	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	ug/L	29.2 J	5.4 J	ND (1.9)	29.2 J	ND (1.9)	ND (1.9)	2.2 J
Zinc	ug/L	254	ND (4.1) U	ND (6.0) U	ND (2.5)	ND (8.1) U	ND (8.9) U	149
Zinc (Dissolved)	ug/L	170	ND (8.2) U	ND (6.2) U	ND (2.5)	ND (3.4) U	9.4 J	156
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0025)	ND (0.0024)	ND (0.0025)	ND (0.0024)	ND (0.0025)	ND (0.0025)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0025)	ND (0.0024)	ND (0.0025)	ND (0.0024)	ND (0.0024)	ND (0.0025)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0029)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	ND (0.0019)	ND (0.0018)	ND (0.0019)	ND (0.0018)	ND (0.0018)	ND (0.0019)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0023)	ND (0.0022)	ND (0.0023)	ND (0.0022)	ND (0.0022)	ND (0.0023)
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0023)	ND (0.0022)	ND (0.0023)	ND (0.0022)	ND (0.0022)	ND (0.0023)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0014)	ND (0.0013)	ND (0.0014)	ND (0.0013)	ND (0.0013)	ND (0.0014)
Gases								
Carbon dioxide	ug/L	160000	160000	4500	ND (210)	2700	19000	9600
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	458	155	98.1	84.1	23.9	74.4
Ammonia	mg/L	11.1	8.2	0.66	1.6	0.32	0.19	0.18
Chloride	mg/L	3900	110	255	2.1	25.7	20.9	3.9
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	32.6	2.2	4.0	2.1	1.1	5.1
Nitrate (as N)	mg/L	6.5	ND (0.0077)	ND (0.0077)	0.74	ND (0.0077)	1.8	ND (0.0077)
Nitrite (as N)	mg/L	1.5	0.16	0.14	0.043 J	0.079	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	601	105	601	9.2	52.0	17.0	12.8

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-16-14*	*MW-16-53*	*MW-17-66*	*MW-18-15*	*MW-18-15*	*MW-18-39*
Sample ID:			*GW-15620-072109-RW-44*	*GW-15620-072109-RW-42*	*GW-15620-072309-RW-80*	*GW-15620-070809-DS-030*	*GW-15620-070909-DS-030*	*GW-15620-070809-DS-032*
Sample Date:			*7/21/2009*	*7/21/2009*	*7/23/2009*	*7/8/2009*	*7/9/2009*	*7/8/2009*
Parameter	***Units***	***Max***						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	-	ND (0.29)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	-	ND (0.20)
1,1,2-Trichloroethane	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	-	ND (0.20)
1,1-Dichloroethane	ug/L	0.52 J	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	-	ND (0.12)
1,1-Dichloroethene	ug/L	ND	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	-	ND (0.30)
1,2,3-Trichlorobenzene	ug/L	1300	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	-	ND (0.15)
1,2,4-Trichlorobenzene	ug/L	6300	ND (0.27)	ND (0.27)	0.36 J	ND (0.27)	-	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	-	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	-	ND (0.18)
1,2-Dichlorobenzene	ug/L	8300	ND (0.15)	ND (0.15)	1.6	0.20 J	-	ND (0.15)
1,2-Dichloroethane	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	-	ND (0.21)
1,2-Dichloropropane	ug/L	ND	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	-	ND (0.095)
1,3-Dichlorobenzene	ug/L	1900	ND (0.11)	ND (0.11)	1.9	ND (0.11)	-	ND (0.11)
1,4-Dichlorobenzene	ug/L	3100	ND (0.21)	ND (0.21)	6.8	ND (0.21)	-	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	-	ND (0.55)
2-Hexanone	ug/L	ND	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	-	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	-	ND (0.53)
Acetone	ug/L	7.4 J	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	-	ND (2.5)
Benzene	ug/L	230 J	0.11 J	ND (0.11)	0.53 J	ND (0.11)	-	ND (0.11)
Bromodichloromethane	ug/L	4.2	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	-	ND (0.13)
Bromoform	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	-	ND (0.19)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (0.31) UJ	ND (0.31) UJ	ND (0.31)	ND (0.31)	-	ND (0.31)
Carbon disulfide	ug/L	2.8	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	-	ND (0.21)
Carbon tetrachloride	ug/L	ND	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	-	ND (0.14)
Chlorobenzene	ug/L	19000	0.14 J	ND (0.14)	41	0.15 J	-	ND (0.14)
Chloroethane	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	-	ND (0.21)
Chloroform (Trichloromethane)	ug/L	23	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	-	2.6
Chloromethane (Methyl Chloride)	ug/L	ND	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	-	ND (0.28)
cis-1,2-Dichloroethene	ug/L	49	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	-	ND (0.24)
cis-1,3-Dichloropropene	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	-	ND (0.19)
Cyclohexane	ug/L	9.8	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	-	ND (0.25)
Dibromochloromethane	ug/L	0.39 J	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	-	ND (0.14)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (0.19) UJ	ND (0.19) UJ	ND (0.19)	ND (0.19) UJ	-	ND (0.19) UJ
Ethylbenzene	ug/L	15 J	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	-	ND (0.23)
Isopropylbenzene	ug/L	6.2 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	-	ND (0.16)
Methyl acetate	ug/L	ND	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	-	ND (0.14)
Methyl cyclohexane	ug/L	54	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	-	ND (0.26)
Methyl Tert Butyl Ether	ug/L	12 J	1.5	ND (0.18)	ND (0.18)	ND (0.18)	-	ND (0.18)
Methylene chloride	ug/L	170 J	ND (0.15)	0.39 J	ND (0.15)	ND (0.15)	-	ND (0.15)
Styrene	ug/L	ND	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	-	ND (0.097)
Tetrachloroethene	ug/L	ND	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	-	ND (0.15)
Toluene	ug/L	6100	1.0	1.2	0.35 J	ND (0.15)	-	ND (0.15)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	-	ND (0.17)
trans-1,3-Dichloropropene	ug/L	ND	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	-	ND (0.15)
Trichloroethene	ug/L	480	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	-	ND (0.14)
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (0.20) UJ	ND (0.20) UJ	ND (0.20)	ND (0.20)	-	ND (0.20)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	-	ND (0.32)
Vinyl chloride	ug/L	11	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	-	ND (0.23)
Xylene (total)	ug/L	36 J	0.87 J	ND (0.49)	ND (0.49)	ND (0.49)	-	ND (0.49)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-16-14*	*MW-16-53*	*MW-17-66*	*MW-18-15*	*MW-18-15*	*MW-18-39*
Sample ID:			*GW-15620-072109-RW-44*	*GW-15620-072109-RW-42*	*GW-15620-072309-RW-80*	*GW-15620-070809-DS-030*	*GW-15620-070909-DS-030*	*GW-15620-070809-DS-032*
Sample Date:			*7/21/2009*	*7/21/2009*	*7/23/2009*	*7/8/2009*	*7/9/2009*	*7/8/2009*
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	-	ND (0.34)
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.14)	-	ND (0.15)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.087)	ND (0.085)	ND (0.085)	ND (0.085)	-	ND (0.088)
2,4-Dichlorophenol	ug/L	7.7	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	-	ND (0.13)
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.077)	ND (0.076)	ND (0.076)	ND (0.076)	-	ND (0.078)
2,4-Dinitrophenol	ug/L	680	ND (5.9)	ND (5.8)	ND (5.8)	ND (5.8)	-	ND (6.0)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	-	ND (0.16)
2,6-Dinitrotoluene	ug/L	ND	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	-	ND (0.19)
2-Chloronaphthalene	ug/L	20	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.14)	-	ND (0.15)
2-Chlorophenol	ug/L	27 J	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	-	ND (0.20)
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	-	ND (0.15)
2-Methylphenol	ug/L	15 J	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	-	ND (0.14)
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	-	ND (0.16)
2-Nitrophenol	ug/L	2.3 J	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	-	ND (0.14)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	-	ND (0.35)
3-Nitroaniline	ug/L	0.98 J	ND (0.25)	ND (0.24)	ND (0.24)	ND (0.24)	-	ND (0.25)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.5)	ND (7.3)	ND (7.3)	ND (7.3)	-	ND (7.6)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	-	ND (0.18)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	-	ND (0.25)
4-Chloroaniline	ug/L	4.2 J	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-	ND (1.1)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.10)	ND (0.098)	ND (0.098)	ND (0.098)	-	ND (0.10)
4-Methylphenol	ug/L	16 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	-	ND (0.17)
4-Nitroaniline	ug/L	0.80 J	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.21)	-	ND (0.22)
4-Nitrophenol	ug/L	ND	ND (6.8)	ND (6.6)	ND (6.6)	ND (6.6)	-	ND (6.8)
Acenaphthene	ug/L	1.5 J	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	-	ND (0.14)
Acenaphthylene	ug/L	0.80 J	ND (0.081)	ND (0.080)	ND (0.080)	ND (0.080)	-	ND (0.082)
Acetophenone	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	-	ND (0.21)
Aniline	ug/L	2900	ND (0.39)	ND (0.38)	ND (0.38)	ND (0.38)	-	ND (0.40)
Anthracene	ug/L	ND	ND (1.0)	ND (0.98)	ND (0.98)	ND (0.98)	-	ND (1.0)
Atrazine	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	-	ND (0.20)
Benzaldehyde	ug/L	9.2 J	ND (0.48)	ND (0.47)	ND (0.47)	ND (0.47)	-	ND (0.49)
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	-	ND (0.17)
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	-	ND (0.11)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)	-	0.48 J
Benzo(g,h,i)perylene	ug/L	7	ND (0.083)	ND (0.081)	ND (0.081)	ND (0.081)	-	ND (0.084)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)	-	ND (0.16)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.14)	-	ND (0.15)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	-	ND (0.13)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	-	ND (0.26)
bis(2-Ethylhexyl)phthalate	ug/L	14	4.0 J	ND (0.43)	ND (0.43)	ND (0.43)	-	ND (0.45)
Butyl benzylphthalate	ug/L	ND	ND (2.9)	ND (2.9)	ND (2.9)	ND (2.9)	-	ND (3.0)
Caprolactam	ug/L	36 J	ND (6.9)	ND (6.8)	7.0 J	ND (6.8)	-	ND (7.0)
Carbazole	ug/L	1.0 J	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	-	ND (0.13)
Chrysene	ug/L	4.3	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	-	ND (0.10)
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	-	ND (0.12)
Dibenzofuran	ug/L	0.92 J	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)	-	ND (0.18)
Diethyl phthalate	ug/L	30	30	1.6 J	ND (0.42)	ND (0.42)	-	ND (0.44)
Dimethyl phthalate	ug/L	ND	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	-	ND (0.14)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.28)	-	ND (0.29)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-16-14*	*MW-16-53*	*MW-17-66*	*MW-18-15*	*MW-18-15*	*MW-18-39*
Sample ID:			*GW-15620-072109-RW-44*	*GW-15620-072109-RW-42*	*GW-15620-072309-RW-80*	*GW-15620-070809-DS-030*	*GW-15620-070909-DS-030*	*GW-15620-070809-DS-032*
Sample Date:			*7/21/2009*	*7/21/2009*	*7/23/2009*	*7/8/2009*	*7/9/2009*	*7/8/2009*
Parameter	***Units***	***Max***						
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	-	ND (0.15)
Fluoranthene	ug/L	1.1 J	ND (0.096)	ND (0.094)	ND (0.094)	ND (0.094)	-	0.78 J
Fluorene	ug/L	0.95 J	ND (0.095)	ND (0.093)	ND (0.093)	ND (0.093)	-	ND (0.096)
Hexachlorobenzene	ug/L	0.89 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	-	ND (0.18)
Hexachlorobutadiene	ug/L	ND	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	-	ND (0.12)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	-	ND (0.11)
Hexachloroethane	ug/L	ND	ND (0.074)	ND (0.072)	ND (0.072)	ND (0.072)	-	ND (0.074)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	-	ND (0.16)
Isophorone	ug/L	0.93 J	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.27)	-	ND (0.28)
Naphthalene	ug/L	2200	ND (0.27)	ND (0.26)	ND (0.26)	ND (0.26)	-	ND (0.27)
Nitrobenzene	ug/L	15000	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	-	ND (0.17)
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.37)	ND (0.36)	ND (0.36)	ND (0.36)	-	ND (0.37)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.47)	ND (0.46)	ND (0.46)	ND (0.46)	-	ND (0.47)
Pentachlorophenol	ug/L	ND	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.8)	-	ND (1.8)
Phenanthrene	ug/L	1.2 J	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	-	0.46 J
Phenol	ug/L	0.83 J	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.22)	-	ND (0.23)
Pyrene	ug/L	1.4 J	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.10)	-	0.63 J
Metals								
Aluminum	ug/L	3440	1790	1210	45.8 J	ND (55.5) U	-	515
Aluminum (Dissolved)	ug/L	1170	ND (25.4) U	ND (27.0) U	43.3 J	ND (18.0) U	-	ND (22.2) U
Antimony	ug/L	2.3 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	-	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	-	ND (1.3)
Arsenic	ug/L	436	3.2 J	10.7	5.1 J	ND (2.7)	-	ND (2.7)
Arsenic (Dissolved)	ug/L	448	3.5 J	9.1 J	6.8 J	ND (2.7)	-	ND (2.7)
Barium	ug/L	626	85.5 J	59.1 J	21.9 J	9.8 J	-	19.6 J
Barium (Dissolved)	ug/L	679	76.5 J	47.9 J	21.8 J	8.9 J	-	13.5 J
Beryllium	ug/L	ND	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	-	ND (0.23)
Beryllium (Dissolved)	ug/L	ND	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	-	ND (0.23)
Cadmium	ug/L	8.3	ND (0.17) U	ND (0.13)	ND (0.13)	0.19 J	-	1.2 J
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	-	0.36 J
Calcium	ug/L	219000	40700	51700	166000	9480	-	21000 J
Calcium (Dissolved)	ug/L	226000	38200	53700	167000	9150	-	28300 J
Chromium	ug/L	90.6	ND (4.0) U	ND (2.3) U	ND (0.57)	ND (0.57) J	-	ND (0.57) J
Chromium Total (Dissolved)	ug/L	17.4	2.5 J	ND (0.57)	1.2 J	ND (0.57) J	-	ND (0.57) J
Cobalt	ug/L	113	ND (1.4) U	ND (1.9) U	ND (0.40)	ND (0.40)	-	4.4 J
Cobalt (Dissolved)	ug/L	108	ND (1.1) U	ND (0.40)	ND (0.40)	ND (0.40)	-	3.0 J
Copper	ug/L	294	ND (2.7)	3.3 J	ND (2.7)	ND (2.7)	-	3.3 J
Copper (Dissolved)	ug/L	54.6	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	-	ND (2.7)
Iron	ug/L	94400	31900	1230	229	26.9 J	-	619
Iron (Dissolved)	ug/L	97700	28500	50.4 J	91.1 J	ND (11.9)	-	ND (11.9)
Lead	ug/L	70.9	8.2	ND (3.8) U	ND (1.3)	ND (1.3)	-	5.6
Lead (Dissolved)	ug/L	41.2	1.4 J	1.5 J	ND (1.3)	ND (1.3)	-	ND (1.3)
Magnesium	ug/L	265000	13600	2380 J	31000	1110 J	-	33600
Magnesium (Dissolved)	ug/L	261000	13200	2250 J	31400	1060 J	-	45600
Manganese	ug/L	14300	1750	114	331	3.0 J	-	167
Manganese (Dissolved)	ug/L	14100	1660	41.0	321	1.0 J	-	168
Mercury	ug/L	6.9	0.041 J	0.043 J	ND (0.038)	ND (0.038)	-	ND (0.038)
Mercury (Dissolved)	ug/L	0.38	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	-	ND (0.038)
Nickel	ug/L	148	2.3 J	5.0 J	ND (1.6)	ND (1.6)	-	4.1 J

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-16-14*	*MW-16-53*	*MW-17-66*	*MW-18-15*	*MW-18-15*	*MW-18-39*
Sample ID:			*GW-15620-072109-RW-44*	*GW-15620-072109-RW-42*	*GW-15620-072309-RW-80*	*GW-15620-070809-DS-030*	*GW-15620-070909-DS-030*	*GW-15620-070809-DS-032*
Sample Date:			*7/21/2009*	*7/21/2009*	*7/23/2009*	*7/8/2009*	*7/9/2009*	*7/8/2009*
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	2.2 J	2.1 J	ND (1.6)	ND (1.6)	-	2.8 J
Potassium	ug/L	121000	8520	2700 J	3910 J	1860 J	-	14700
Potassium (Dissolved)	ug/L	118000 J	7780	2240 J	3800 J	1800 J	-	16700
Selenium	ug/L	3.6 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0) UJ	-	ND (3.0) UJ
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	ND (3.0)	4.0 J	ND (3.0) UJ	-	ND (3.0) UJ
Silver	ug/L	5.5	ND (0.68)	3.7 J	ND (0.68)	ND (0.68)	-	1.4 J
Silver (Dissolved)	ug/L	3.2 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	-	ND (0.68)
Sodium	ug/L	2300000	458000	26800	288000	5270	-	396000
Sodium (Dissolved)	ug/L	2250000	461000	27800	290000	5020	-	450000
Thallium	ug/L	6.1 J	2.6 J	ND (2.4)	ND (2.4)	ND (2.4)	-	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	2.9 J	ND (2.4)	ND (2.4)	ND (2.4)	-	ND (2.4)
Vanadium	ug/L	28.8 J	3.0 J	ND (1.9)	ND (1.9)	ND (1.9)	-	2.4 J
Vanadium (Dissolved)	ug/L	29.2 J	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	-	ND (1.9)
Zinc	ug/L	254	38.7	38.5	2.8 J	ND (4.2) U	-	71.2
Zinc (Dissolved)	ug/L	170	4.2 J	16.7 J	ND (2.5)	ND (7.9) U	-	70.5
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	-	ND (0.0024)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0023)	ND (0.0024)	ND (0.0024)	ND (0.0023)	-	ND (0.0024)
Aroclor-1232 (PCB-1232)	ug/L	0.12	0.12	ND (0.0028)	ND (0.0028)	ND (0.0028)	-	ND (0.0028)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	ND (0.0017)	ND (0.0018)	ND (0.0018)	ND (0.0017)	-	ND (0.0018)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0021)	0.018	ND (0.0022)	ND (0.0021)	-	ND (0.0022)
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	-	ND (0.0022)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	-	ND (0.0013)
Gases								
Carbon dioxide	ug/L	160000	37000	ND (210)	1700	6700	-	6400
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	226	125	151	-	13.8	-
Ammonia	mg/L	11.1	4.0	0.14	0.28	0.10	-	0.27
Chloride	mg/L	3900	639	33.4	442 J	-	12.7	-
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	10.1	0.84 J	1.6	1.4	-	1.9
Nitrate (as N)	mg/L	6.5	ND (0.0077)	0.52	ND (0.0077)	-	0.64	-
Nitrite (as N)	mg/L	1.5	0.26	ND (0.0032)	0.20	-	ND (0.0032)	-
Sulfate	mg/L	601	1.4	19.7	329	-	4.2	-

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-18-39*	*MW-20-15*	*MW-20-15*	*MW-20-40*	*MW-22-D*	*MW-22-S*
Sample ID:			*GW-15620-070909-DS-032*	*GW-15620-070809-RR-051*	*GW-15620-070909-RR-051*	*GW-15620-070909-RR-057*	*GW-15620-071009-DS-036*	*GW-15620-070909-DS-034*
Sample Date:			*7/9/2009*	*7/8/2009*	*7/9/2009*	*7/9/2009*	*7/10/2009*	*7/9/2009*
Parameter	*Units*	*Max*						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	-	ND (0.29)	-	ND (0.29)	ND (0.29)	ND (0.57)
1,1,2,2-Tetrachloroethane	ug/L	ND	-	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.40)
1,1,2-Trichloroethane	ug/L	ND	-	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.40)
1,1-Dichloroethane	ug/L	0.52 J	-	ND (0.12)	-	ND (0.12)	ND (0.12)	ND (0.23)
1,1-Dichloroethene	ug/L	ND	-	ND (0.30)	-	ND (0.30)	ND (0.30)	ND (0.59)
1,2,3-Trichlorobenzene	ug/L	1300	-	ND (0.15)	-	ND (0.15)	0.19 J	ND (0.31)
1,2,4-Trichlorobenzene	ug/L	6300	-	ND (0.27)	-	ND (0.27)	ND (0.40) U	ND (0.54)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	-	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.28)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	-	ND (0.18)	-	ND (0.18)	ND (0.18)	ND (0.36)
1,2-Dichlorobenzene	ug/L	8300	-	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.30)
1,2-Dichloroethane	ug/L	ND	-	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.42)
1,2-Dichloropropane	ug/L	ND	-	ND (0.095)	-	ND (0.095)	ND (0.095)	ND (0.19)
1,3-Dichlorobenzene	ug/L	1900	-	ND (0.11)	-	ND (0.11)	ND (0.11)	ND (0.21)
1,4-Dichlorobenzene	ug/L	3100	-	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.41)
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	-	ND (0.55)	-	ND (0.55)	ND (0.55)	ND (1.1)
2-Hexanone	ug/L	ND	-	ND (0.16)	-	ND (0.16)	ND (0.16) UJ	ND (0.32)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	-	ND (0.53)	-	ND (0.53)	ND (0.53)	ND (1.1)
Acetone	ug/L	7.4 J	-	ND (2.5)	-	ND (2.5)	ND (2.5)	ND (5.0)
Benzene	ug/L	230 J	-	0.11 J	-	ND (0.11)	ND (0.11)	ND (0.21)
Bromodichloromethane	ug/L	4.2	-	4.2	-	0.67 J	ND (0.13)	ND (0.26)
Bromoform	ug/L	ND	-	ND (0.19)	-	ND (0.19)	ND (0.19)	ND (0.38)
Bromomethane (Methyl Bromide)	ug/L	ND	-	ND (0.31)	-	ND (0.31)	ND (0.31)	ND (0.63)
Carbon disulfide	ug/L	2.8	-	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.42)
Carbon tetrachloride	ug/L	ND	-	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.27)
Chlorobenzene	ug/L	19000	-	0.17 J	-	0.17 J	ND (0.14)	ND (0.27)
Chloroethane	ug/L	ND	-	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.43)
Chloroform (Trichloromethane)	ug/L	23	-	23	-	3.9	ND (0.17)	ND (0.34)
Chloromethane (Methyl Chloride)	ug/L	ND	-	ND (0.28)	-	ND (0.28)	ND (0.28)	ND (0.57)
cis-1,2-Dichloroethene	ug/L	49	-	ND (0.24)	-	ND (0.24)	ND (0.24)	ND (0.47)
cis-1,3-Dichloropropene	ug/L	ND	-	ND (0.19)	-	ND (0.19)	ND (0.19)	ND (0.37)
Cyclohexane	ug/L	9.8	-	ND (0.25)	-	ND (0.25)	ND (0.25)	9.8
Dibromochloromethane	ug/L	0.39 J	-	0.39 J	-	ND (0.14)	ND (0.14)	ND (0.27)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	-	ND (0.19) UJ	-	ND (0.19) UJ	ND (0.19) UJ	ND (0.38) UJ
Ethylbenzene	ug/L	15 J	-	ND (0.23)	-	ND (0.23)	ND (0.23)	ND (0.45)
Isopropylbenzene	ug/L	6.2 J	-	ND (0.16)	-	ND (0.16)	ND (0.16)	0.78 J
Methyl acetate	ug/L	ND	-	ND (0.14)	-	ND (0.14)	ND (0.14) UJ	ND (0.28)
Methyl cyclohexane	ug/L	54	-	ND (0.26)	-	ND (0.26)	ND (0.26)	54
Methyl Tert Butyl Ether	ug/L	12 J	-	ND (0.18)	-	0.45 J	1.8	ND (0.37)
Methylene chloride	ug/L	170 J	-	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.30)
Styrene	ug/L	ND	-	ND (0.097)	-	ND (0.097)	ND (0.097)	ND (0.19)
Tetrachloroethene	ug/L	ND	-	ND (0.15)	-	ND (0.15)	ND (0.15) UJ	ND (0.30)
Toluene	ug/L	6100	-	0.25 J	-	ND (0.15)	ND (0.15)	ND (0.30)
trans-1,2-Dichloroethene	ug/L	0.59 J	-	ND (0.17)	-	ND (0.17)	ND (0.17)	ND (0.34)
trans-1,3-Dichloropropene	ug/L	ND	-	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.30)
Trichloroethene	ug/L	480	-	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.29)
Trichlorofluoromethane (CFC-11)	ug/L	ND	-	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.40)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	-	ND (0.32)	-	ND (0.32)	ND (0.32)	ND (0.64)
Vinyl chloride	ug/L	11	-	ND (0.23)	-	ND (0.23)	ND (0.23)	ND (0.45)
Xylene (total)	ug/L	36 J	-	ND (0.49)	-	ND (0.49)	ND (0.49)	ND (0.98)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-18-39*	*MW-20-15*	*MW-20-15*	*MW-20-40*	*MW-22-D*	*MW-22-S*
Sample ID:			*GW-15620-070909-DS-032*	*GW-15620-070809-RR-051*	*GW-15620-070909-RR-051*	*GW-15620-070909-RR-057*	*GW-15620-071009-DS-036*	*GW-15620-070909-DS-034*
Sample Date:			*7/9/2009*	*7/8/2009*	*7/9/2009*	*7/9/2009*	*7/10/2009*	*7/9/2009*
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	-	ND (0.36)	-	ND (0.40)	ND (0.33)	ND (0.33)
2,4,5-Trichlorophenol	ug/L	4.6 J	-	ND (0.16)	-	ND (0.17)	ND (0.14)	ND (0.14)
2,4,6-Trichlorophenol	ug/L	0.71 J	-	ND (0.094)	-	ND (0.10)	ND (0.085)	ND (0.086)
2,4-Dichlorophenol	ug/L	7.7	-	ND (0.14)	-	ND (0.15)	ND (0.13)	ND (0.13)
2,4-Dimethylphenol	ug/L	0.68 J	-	ND (0.083)	-	ND (0.092)	ND (0.076)	ND (0.076)
2,4-Dinitrophenol	ug/L	680	-	ND (6.3)	-	ND (7.0)	ND (5.8)	ND (5.8)
2,4-Dinitrotoluene	ug/L	0.75 J	-	ND (0.17)	-	ND (0.19)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	ug/L	ND	-	ND (0.20)	-	ND (0.22)	ND (0.18)	ND (0.18)
2-Chloronaphthalene	ug/L	20	-	ND (0.16)	-	ND (0.17)	ND (0.14)	ND (0.14)
2-Chlorophenol	ug/L	27 J	-	ND (0.22)	-	ND (0.24)	ND (0.20)	ND (0.20)
2-Methylnaphthalene	ug/L	0.71 J	-	ND (0.16)	-	ND (0.18)	ND (0.15)	ND (0.15)
2-Methylphenol	ug/L	15 J	-	ND (0.14)	-	ND (0.16)	ND (0.13)	ND (0.13)
2-Nitroaniline	ug/L	1.1 J	-	ND (0.17)	-	ND (0.19)	ND (0.16)	ND (0.16)
2-Nitrophenol	ug/L	2.3 J	-	ND (0.14)	-	ND (0.16)	ND (0.13)	ND (0.13)
3,3'-Dichlorobenzidine	ug/L	3.4 J	-	ND (0.37)	-	ND (0.41)	ND (0.34)	ND (0.34)
3-Nitroaniline	ug/L	0.98 J	-	ND (0.27)	-	ND (0.30)	ND (0.24)	ND (0.25)
4,6-Dinitro-2-methylphenol	ug/L	ND	-	ND (8.0)	-	ND (8.9)	ND (7.3)	ND (7.4)
4-Bromophenyl phenyl ether	ug/L	0.90 J	-	ND (0.19)	-	ND (0.21)	ND (0.18)	ND (0.18)
4-Chloro-3-methylphenol	ug/L	1.0 J	-	ND (0.26)	-	ND (0.29)	ND (0.24)	ND (0.24)
4-Chloroaniline	ug/L	4.2 J	-	ND (1.1)	-	ND (1.2)	ND (1.0)	ND (1.0)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	-	ND (0.11)	-	ND (0.12)	ND (0.098)	ND (0.099)
4-Methylphenol	ug/L	16 J	-	ND (0.18)	-	ND (0.20)	ND (0.17)	ND (0.17)
4-Nitroaniline	ug/L	0.80 J	-	ND (0.23)	-	ND (0.26)	ND (0.21)	ND (0.22)
4-Nitrophenol	ug/L	ND	-	ND (7.2)	-	ND (8.0)	ND (6.6)	ND (6.7)
Acenaphthene	ug/L	1.5 J	-	ND (0.15)	-	ND (0.16)	ND (0.14)	ND (0.14)
Acenaphthylene	ug/L	0.80 J	-	ND (0.087)	-	ND (0.096)	ND (0.080)	ND (0.080)
Acetophenone	ug/L	ND	-	ND (0.23)	-	ND (0.25)	ND (0.21)	ND (0.21)
Aniline	ug/L	2900	-	ND (0.42)	-	ND (0.47)	ND (0.38)	ND (0.39)
Anthracene	ug/L	ND	-	ND (1.1)	-	ND (1.2)	ND (0.98)	ND (0.99)
Atrazine	ug/L	ND	-	ND (0.21)	-	ND (0.23)	ND (0.19)	ND (0.19)
Benzaldehyde	ug/L	9.2 J	-	ND (0.52)	-	ND (0.57)	ND (0.47)	ND (0.48)
Benzo(a)anthracene	ug/L	3.3	-	ND (0.18)	-	ND (0.20)	ND (0.17)	ND (0.17)
Benzo(a)pyrene	ug/L	8.4	-	ND (0.12)	-	ND (0.13)	ND (0.11)	ND (0.11)
Benzo(b)fluoranthene	ug/L	3.9	-	ND (0.17)	-	ND (0.19)	ND (0.15)	ND (0.15)
Benzo(g,h,i)perylene	ug/L	7	-	ND (0.089)	-	ND (0.099)	ND (0.081)	ND (0.082)
Benzo(k)fluoranthene	ug/L	3.8	-	ND (0.17)	-	ND (0.19)	ND (0.15)	ND (0.16)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	-	ND (0.16)	-	ND (0.18)	ND (0.14)	ND (0.15)
bis(2-Chloroethoxy)methane	ug/L	ND	-	ND (0.14)	-	ND (0.16)	ND (0.13)	ND (0.13)
bis(2-Chloroethyl)ether	ug/L	ND	-	ND (0.27)	-	ND (0.30)	ND (0.25)	ND (0.25)
bis(2-Ethylhexyl)phthalate	ug/L	14	-	ND (0.48)	-	ND (0.53)	ND (0.43)	ND (0.44)
Butyl benzylphthalate	ug/L	ND	-	ND (3.2)	-	ND (3.5)	ND (2.9)	ND (2.9)
Caprolactam	ug/L	36 J	-	ND (7.4)	-	ND (8.2)	ND (6.8)	ND (6.9)
Carbazole	ug/L	1.0 J	-	ND (0.14)	-	ND (0.16)	ND (0.13)	ND (0.13)
Chrysene	ug/L	4.3	-	ND (0.11)	-	ND (0.12)	ND (0.10)	ND (0.10)
Dibenz(a,h)anthracene	ug/L	12	-	ND (0.13)	-	ND (0.15)	ND (0.12)	ND (0.12)
Dibenzofuran	ug/L	0.92 J	-	ND (0.19)	-	ND (0.21)	ND (0.17)	ND (0.18)
Diethyl phthalate	ug/L	30	-	ND (0.46)	-	ND (0.51)	ND (0.42)	ND (0.43)
Dimethyl phthalate	ug/L	ND	-	ND (0.14)	-	ND (0.16)	ND (0.13)	ND (0.13)
Di-n-butylphthalate	ug/L	2.0 J	-	ND (0.31)	-	ND (0.34)	ND (0.28)	ND (0.28)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-18-39*	*MW-20-15*	*MW-20-15*	*MW-20-40*	*MW-22-D*	*MW-22-S*
Sample ID:			*GW-15620-070909-DS-032*	*GW-15620-070809-RR-051*	*GW-15620-070909-RR-051*	*GW-15620-070909-RR-057*	*GW-15620-071009-DS-036*	*GW-15620-070909-DS-034*
Sample Date:			*7/9/2009*	*7/8/2009*	*7/9/2009*	*7/9/2009*	*7/10/2009*	*7/9/2009*
Parameter	***Units***	***Max***						
Di-n-octyl phthalate	ug/L	10 J	-	ND (0.16)	-	ND (0.18)	ND (0.15)	ND (0.15)
Fluoranthene	ug/L	1.1 J	-	ND (0.10)	-	ND (0.11)	ND (0.094)	ND (0.095)
Fluorene	ug/L	0.95 J	-	ND (0.10)	-	ND (0.11)	ND (0.093)	ND (0.094)
Hexachlorobenzene	ug/L	0.89 J	-	ND (0.19)	-	ND (0.21)	ND (0.17)	ND (0.17)
Hexachlorobutadiene	ug/L	ND	-	ND (0.13)	-	ND (0.14)	ND (0.11)	ND (0.12)
Hexachlorocyclopentadiene	ug/L	ND	-	ND (0.12)	-	ND (0.13)	ND (0.11)	ND (0.11)
Hexachloroethane	ug/L	ND	-	ND (0.079)	-	ND (0.087)	ND (0.072)	ND (0.073)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	-	ND (0.17)	-	ND (0.18)	ND (0.15)	ND (0.15)
Isophorone	ug/L	0.93 J	-	ND (0.30)	-	ND (0.33)	ND (0.27)	ND (0.27)
Naphthalene	ug/L	2200	-	ND (0.29)	-	ND (0.32)	ND (0.26)	ND (0.26)
Nitrobenzene	ug/L	15000	-	ND (0.19)	-	ND (0.21)	ND (0.17)	ND (0.17)
N-Nitrosodi-n-propylamine	ug/L	ND	-	ND (0.40)	-	ND (0.44)	ND (0.36)	ND (0.37)
N-Nitrosodiphenylamine	ug/L	0.93 J	-	ND (0.50)	-	ND (0.56)	ND (0.46)	ND (0.46)
Pentachlorophenol	ug/L	ND	-	ND (1.9)	-	ND (2.1)	ND (1.8)	ND (1.8)
Phenanthrene	ug/L	1.2 J	-	ND (0.29)	-	ND (0.32)	ND (0.27)	ND (0.27)
Phenol	ug/L	0.83 J	-	ND (0.24)	-	ND (0.27)	ND (0.22)	ND (0.22)
Pyrene	ug/L	1.4 J	-	ND (0.11)	-	ND (0.13)	ND (0.10)	ND (0.11)
Metals								
Aluminum	ug/L	3440	-	166 J	-	823	ND (41.0) U	ND (21.9) U
Aluminum (Dissolved)	ug/L	1170	-	ND (29.9) U	-	94.4 J	ND (17.4) U	ND (22.8) U
Antimony	ug/L	2.3 J	-	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	-	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	ug/L	436	-	ND (2.7)	-	3.1 J	4.9 J	6.2 J
Arsenic (Dissolved)	ug/L	448	-	ND (2.7)	-	ND (2.7)	4.2 J	5.2 J
Barium	ug/L	626	-	68.8 J	-	33.3 J	195 J	11.9 J
Barium (Dissolved)	ug/L	679	-	71.2 J	-	26.2 J	193 J	11.4 J
Beryllium	ug/L	ND	-	ND (0.23)	-	ND (0.23)	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	ug/L	ND	-	ND (0.23)	-	ND (0.23)	ND (0.23)	ND (0.23)
Cadmium	ug/L	8.3	-	0.19 J	-	8.3	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	ug/L	7.9	-	0.14 J	-	7.9	ND (0.13)	ND (0.13)
Calcium	ug/L	219000	-	17700	-	23000	124000	10400
Calcium (Dissolved)	ug/L	226000	-	17800	-	22700	127000	10200
Chromium	ug/L	90.6	-	ND (4.7) UJ	-	ND (0.57) J	ND (1.2) U	ND (0.57) J
Chromium Total (Dissolved)	ug/L	17.4	-	ND (4.0) UJ	-	ND (0.57) J	ND (0.57)	ND (0.57) J
Cobalt	ug/L	113	-	ND (0.40)	-	3.9 J	ND (0.40)	0.52 J
Cobalt (Dissolved)	ug/L	108	-	ND (0.40)	-	2.0 J	ND (0.40)	0.54 J
Copper	ug/L	294	-	ND (2.7)	-	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	ug/L	54.6	-	ND (2.7)	-	ND (2.7)	ND (2.7)	ND (2.7)
Iron	ug/L	94400	-	119	-	770	38.3 J	7110
Iron (Dissolved)	ug/L	97700	-	30.4 J	-	79.0 J	134	6760
Lead	ug/L	70.9	-	ND (1.3)	-	2.7 J	ND (1.3)	1.3 J
Lead (Dissolved)	ug/L	41.2	-	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)
Magnesium	ug/L	265000	-	2800 J	-	3180 J	13400	1040 J
Magnesium (Dissolved)	ug/L	261000	-	2810 J	-	3040 J	14100	1030 J
Manganese	ug/L	14300	-	15.8	-	721	217	264
Manganese (Dissolved)	ug/L	14100	-	4.7 J	-	478	219	255
Mercury	ug/L	6.9	-	0.052 J	-	ND (0.038)	ND (0.038)	ND (0.038)
Mercury (Dissolved)	ug/L	0.38	-	ND (0.038)	-	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	ug/L	148	-	4.0 J	-	9.3 J	2.0 J	ND (1.6)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-18-39*	*MW-20-15*	*MW-20-15*	*MW-20-40*	*MW-22-D*	*MW-22-S*
Sample ID:			*GW-15620-070909-DS-032*	*GW-15620-070809-RR-051*	*GW-15620-070909-RR-051*	*GW-15620-070909-RR-057*	*GW-15620-071009-DS-036*	*GW-15620-070909-DS-034*
Sample Date:			*7/9/2009*	*7/8/2009*	*7/9/2009*	*7/9/2009*	*7/10/2009*	*7/9/2009*
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	-	4.4 J	-	4.5 J	2.2 J	ND (1.6)
Potassium	ug/L	121000	-	3530 J	-	2250 J	1060 J	2390 J
Potassium (Dissolved)	ug/L	118000 J	-	3640 J	-	2240 J	1120 J	2380 J
Selenium	ug/L	3.6 J	-	ND (3.0) UJ	-	ND (3.0) UJ	ND (3.0)	ND (3.0) UJ
Selenium (Dissolved)	ug/L	4.0 J	-	ND (3.0) UJ	-	ND (3.0) UJ	ND (3.0)	ND (3.0) UJ
Silver	ug/L	5.5	-	ND (0.68)	-	5.2	0.82 J	ND (0.68)
Silver (Dissolved)	ug/L	3.2 J	-	ND (0.68)	-	0.83 J	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	-	99800	-	50800	17400	23100
Sodium (Dissolved)	ug/L	2250000	-	105000	-	51900	18900	22400
Thallium	ug/L	6.1 J	-	ND (2.4)	-	ND (2.4)	ND (2.4)	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	-	ND (5.1) U	-	ND (2.4)	ND (2.4)	ND (4.2) U
Vanadium	ug/L	28.8 J	-	ND (1.9)	-	ND (1.9)	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	ug/L	29.2 J	-	ND (1.9)	-	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	ug/L	254	-	ND (8.3) U	-	114	ND (2.5)	ND (17.5) U
Zinc (Dissolved)	ug/L	170	-	ND (6.5) U	-	117	ND (2.5)	ND (12.0) U
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	-	ND (0.0025)	-	ND (0.0025)	ND (0.0024)	ND (0.0024)
Aroclor-1221 (PCB-1221)	ug/L	ND	-	ND (0.0025)	-	ND (0.0025)	ND (0.0023)	ND (0.0024)
Aroclor-1232 (PCB-1232)	ug/L	0.12	-	ND (0.0029)	-	ND (0.0030)	ND (0.0028)	ND (0.0028)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	-	ND (0.0019)	-	ND (0.0019)	ND (0.0017)	ND (0.0018)
Aroclor-1248 (PCB-1248)	ug/L	0.069	-	ND (0.0023)	-	ND (0.0023)	ND (0.0021)	ND (0.0022)
Aroclor-1254 (PCB-1254)	ug/L	0.3	-	ND (0.0023)	-	ND (0.0023)	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	ug/L	0.08	-	ND (0.0014)	-	ND (0.0014)	ND (0.0013)	ND (0.0013)
Gases								
Carbon dioxide	ug/L	160000	-	7500	-	5700	1300	13000
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	70.6	-	102	88.9	96.3	52.2
Ammonia	mg/L	11.1	-	0.16	-	0.097 J	ND (0.0094)	0.21
Chloride	mg/L	3900	2570	-	96.2	56.6	209	19.6
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	-	1.7	-	0.97 J	1.9	3.8
Nitrate (as N)	mg/L	6.5	0.75	-	1.9	0.50	ND (0.011) U	ND (0.0077)
Nitrite (as N)	mg/L	1.5	ND (0.0032)	-	0.20	ND (0.0032)	0.14	ND (0.0032)
Sulfate	mg/L	601	333	-	16.8	24.5	40.3	ND (1.0) U

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-2-34*	*MW-23-D*	*MW-23-S*	*MW-24-D*	*MW-24-I*	*MW-24-S*
Sample ID:			*GW-15620-061809-MM-012*	*GW-15620-070909-RR-055*	*GW-15620-070909-RR-053*	*GW-15620-061109-MM-006*	*GW-15620-060909-MM-004*	*GW-15620-060909-MM-002*
Sample Date:			*6/18/2009*	*7/9/2009*	*7/9/2009*	*6/11/2009*	*6/9/2009*	*6/9/2009*
Parameter	*Units*	*Max*						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	ug/L	0.52 J	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
1,1-Dichloroethene	ug/L	ND	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	ug/L	1300	0.17 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
1,2,4-Trichlorobenzene	ug/L	6300	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	ug/L	8300	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	0.45 J
1,2-Dichloroethane	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	ug/L	ND	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	ug/L	1900	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
1,4-Dichlorobenzene	ug/L	3100	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (0.55) UJ	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)
2-Hexanone	ug/L	ND	ND (0.16) UJ	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (0.53) UJ	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Acetone	ug/L	7.4 J	ND (2.5) UJ	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)
Benzene	ug/L	230 J	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Bromodichloromethane	ug/L	4.2	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Bromoform	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)
Carbon disulfide	ug/L	2.8	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Carbon tetrachloride	ug/L	ND	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14) UJ	ND (0.14)	ND (0.14)
Chlorobenzene	ug/L	19000	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	1.1
Chloroethane	ug/L	ND	ND (0.21) UJ	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	ug/L	23	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28) UJ	ND (0.28) UJ
cis-1,2-Dichloroethene	ug/L	49	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Cyclohexane	ug/L	9.8	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Dibromochloromethane	ug/L	0.39 J	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (0.19) UJ	ND (0.19) UJ	ND (0.19) UJ	ND (0.19) UJ	ND (0.19) UJ	ND (0.19) UJ
Ethylbenzene	ug/L	15 J	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Isopropylbenzene	ug/L	6.2 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
Methyl acetate	ug/L	ND	ND (0.14) UJ	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Methyl cyclohexane	ug/L	54	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	ug/L	12 J	ND (0.18)	1.4	ND (0.18)	0.27 J	ND (0.18)	ND (0.18)
Methylene chloride	ug/L	170 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Styrene	ug/L	ND	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)
Tetrachloroethene	ug/L	ND	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Toluene	ug/L	6100	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
trans-1,3-Dichloropropene	ug/L	ND	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Trichloroethene	ug/L	480	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Vinyl chloride	ug/L	11	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	0.25 J
Xylene (total)	ug/L	36 J	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-2-34*	*MW-23-D*	*MW-23-S*	*MW-24-D*	*MW-24-I*	*MW-24-S*
Sample ID:			*GW-15620-061809-MM-012*	*GW-15620-070909-RR-055*	*GW-15620-070909-RR-053*	*GW-15620-061109-MM-006*	*GW-15620-060909-MM-004*	*GW-15620-060909-MM-002*
Sample Date:			*6/18/2009*	*7/9/2009*	*7/9/2009*	*6/11/2009*	*6/9/2009*	*6/9/2009*
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.33)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.37)	ND (0.33)
2,4,5-Trichlorophenol	ug/L	4.6 J	R	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.16)	ND (0.15)
2,4,6-Trichlorophenol	ug/L	0.71 J	R	ND (0.094)	ND (0.086)	ND (0.087)	ND (0.098)	ND (0.087)
2,4-Dichlorophenol	ug/L	7.7	R	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
2,4-Dimethylphenol	ug/L	0.68 J	R	ND (0.083)	ND (0.076)	ND (0.077)	ND (0.087)	ND (0.077)
2,4-Dinitrophenol	ug/L	680	R	ND (6.3)	ND (5.8)	ND (5.9)	ND (6.6)	ND (5.9)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)
2,6-Dinitrotoluene	ug/L	ND	ND (0.18)	ND (0.20)	ND (0.18)	ND (0.18)	ND (0.21)	ND (0.18)
2-Chloronaphthalene	ug/L	20	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.16)	ND (0.15)
2-Chlorophenol	ug/L	27 J	R	ND (0.22)	ND (0.20)	ND (0.20)	ND (0.23)	ND (0.20)
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)
2-Methylphenol	ug/L	15 J	R	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)
2-Nitrophenol	ug/L	2.3 J	R	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.35)	ND (0.37)	ND (0.34)	ND (0.35)	ND (0.39)	ND (0.35)
3-Nitroaniline	ug/L	0.98 J	ND (0.25)	ND (0.27)	ND (0.25)	ND (0.25)	ND (0.28)	ND (0.25)
4,6-Dinitro-2-methylphenol	ug/L	ND	R	ND (8.0)	ND (7.4)	ND (7.5)	ND (8.4)	ND (7.5)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.20)	ND (0.18)
4-Chloro-3-methylphenol	ug/L	1.0 J	R	ND (0.26)	ND (0.24)	ND (0.24)	ND (0.27)	ND (0.24)
4-Chloroaniline	ug/L	4.2 J	ND (1.0)	ND (1.1)	ND (1.0)	ND (1.0)	ND (1.2)	ND (1.0)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.10)	ND (0.11)	ND (0.099)	ND (0.10)	ND (0.11)	ND (0.10)
4-Methylphenol	ug/L	16 J	R	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)
4-Nitroaniline	ug/L	0.80 J	ND (0.22)	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.22)
4-Nitrophenol	ug/L	ND	R	ND (7.2)	ND (6.7)	ND (6.8)	ND (7.6)	ND (6.8)
Acenaphthene	ug/L	1.5 J	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.14)
Acenaphthylene	ug/L	0.80 J	ND (0.081)	ND (0.087)	ND (0.080)	ND (0.081)	ND (0.091)	ND (0.081)
Acetophenone	ug/L	ND	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.21)
Aniline	ug/L	2900	1.8 J	ND (0.42)	ND (0.39)	ND (0.39)	ND (0.44)	ND (0.39)
Anthracene	ug/L	ND	ND (1.0)	ND (1.1)	ND (0.99)	ND (1.0)	ND (1.1)	ND (1.0)
Atrazine	ug/L	ND	ND (0.19)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.19)
Benzaldehyde	ug/L	9.2 J	ND (0.48)	ND (0.52)	ND (0.48)	ND (0.48)	ND (0.54)	ND (0.48)
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)	2.6	ND (0.17)
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)	1.7 J	ND (0.11)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.16)	3.9	ND (0.16)
Benzo(g,h,i)perylene	ug/L	7	ND (0.083)	ND (0.089)	ND (0.082)	ND (0.083)	2.7	ND (0.083)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)	3.2	ND (0.16)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.25)	ND (0.27)	ND (0.25)	ND (0.25)	ND (0.28)	ND (0.25)
bis(2-Ethylhexyl)phthalate	ug/L	14	ND (0.44)	ND (0.48)	ND (0.44)	ND (0.44)	2.0 J	ND (0.44)
Butyl benzylphthalate	ug/L	ND	ND (2.9)	ND (3.2)	ND (2.9)	ND (2.9)	ND (3.3)	ND (2.9)
Caprolactam	ug/L	36 J	ND (6.9)	ND (7.4)	ND (6.9)	ND (6.9)	ND (7.8)	ND (6.9)
Carbazole	ug/L	1.0 J	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
Chrysene	ug/L	4.3	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.10)	3.4	ND (0.10)
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	ND (0.13)	ND (0.12)	ND (0.12)	3.1	ND (0.12)
Dibenzofuran	ug/L	0.92 J	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.20)	ND (0.18)
Diethyl phthalate	ug/L	30	ND (0.43)	ND (0.46)	ND (0.43)	ND (1.4) U	ND (0.48)	ND (0.43)
Dimethyl phthalate	ug/L	ND	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.29)	ND (0.31)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.29)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-2-34*	*MW-23-D*	*MW-23-S*	*MW-24-D*	*MW-24-I*	*MW-24-S*
Sample ID:			*GW-15620-061809-MM-012*	*GW-15620-070909-RR-055*	*GW-15620-070909-RR-053*	*GW-15620-061109-MM-006*	*GW-15620-060909-MM-004*	*GW-15620-060909-MM-002*
Sample Date:			*6/18/2009*	*7/9/2009*	*7/9/2009*	*6/11/2009*	*6/9/2009*	*6/9/2009*
Parameter	***Units***	***Max***						
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)
Fluoranthene	ug/L	1.1 J	ND (0.096)	ND (0.10)	ND (0.095)	ND (0.096)	1.1 J	ND (0.096)
Fluorene	ug/L	0.95 J	ND (0.095)	ND (0.10)	ND (0.094)	ND (0.095)	ND (0.11)	ND (0.095)
Hexachlorobenzene	ug/L	0.89 J	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.17)
Hexachlorobutadiene	ug/L	ND	ND (0.12)	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.12)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Hexachloroethane	ug/L	ND	ND (0.074)	ND (0.079)	ND (0.073)	ND (0.074)	ND (0.083)	ND (0.074)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.15)	3.1	ND (0.15)
Isophorone	ug/L	0.93 J	ND (0.28)	ND (0.30)	ND (0.27)	ND (0.28)	ND (0.31)	ND (0.28)
Naphthalene	ug/L	2200	ND (0.27)	ND (0.29)	ND (0.26)	ND (0.27)	ND (0.30)	ND (0.27)
Nitrobenzene	ug/L	15000	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.37)	ND (0.40)	ND (0.37)	ND (0.37)	ND (0.42)	ND (0.37)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.47)	ND (0.50)	ND (0.46)	ND (0.47)	ND (0.53)	ND (0.47)
Pentachlorophenol	ug/L	ND	R	ND (1.9)	ND (1.8)	ND (1.8)	ND (2.0)	ND (1.8)
Phenanthrene	ug/L	1.2 J	ND (0.27)	ND (0.29)	ND (0.27)	ND (0.27)	ND (0.31)	ND (0.27)
Phenol	ug/L	0.83 J	R	ND (0.24)	ND (0.22)	ND (0.23)	ND (0.26)	ND (0.23)
Pyrene	ug/L	1.4 J	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	1.4 J	ND (0.11)
Metals								
Aluminum	ug/L	3440	ND (29.6) U	116 J	ND (43.0) U	ND (9.7)	ND (156) U	ND (137) U
Aluminum (Dissolved)	ug/L	1170	ND (17.7) U	ND (20.0) U	ND (26.0) U	ND (9.7)	ND (58.8) U	ND (64.4) U
Antimony	ug/L	2.3 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	ND (1.3)	ND (1.3)	ND (1.3)	1.3 J	ND (1.3)	ND (1.3)
Arsenic	ug/L	436	2.8 J	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	2.9 J
Arsenic (Dissolved)	ug/L	448	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	3.1 J
Barium	ug/L	626	7.4 J	51.0 J	33.8 J	12.5 J	2.8 J	24.8 J
Barium (Dissolved)	ug/L	679	7.0 J	52.3 J	33.0 J	12.3 J	1.8 J	22.4 J
Beryllium	ug/L	ND	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.45) U	ND (0.41) U
Beryllium (Dissolved)	ug/L	ND	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.58) U	ND (0.52) U
Cadmium	ug/L	8.3	ND (0.13)	ND (0.13)	0.32 J	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	ND (0.13)	0.16 J	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	ug/L	219000	25900	54400	20200	40200	20600	50200
Calcium (Dissolved)	ug/L	226000	25600	58500	20300	41000	20200	47700
Chromium	ug/L	90.6	ND (0.57)	ND (0.57) J	ND (0.57) J	ND (0.57)	0.62 J	1.1 J
Chromium Total (Dissolved)	ug/L	17.4	ND (0.57)	ND (0.57) J	ND (0.57) J	ND (0.57)	ND (0.57)	ND (0.57)
Cobalt	ug/L	113	ND (0.40)	0.42 J	1.4 J	ND (0.40)	1.2 J	ND (0.40)
Cobalt (Dissolved)	ug/L	108	ND (0.40)	ND (0.40)	0.96 J	0.52 J	1.4 J	ND (0.40)
Copper	ug/L	294	ND (2.7)	ND (2.7)	4.1 J	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	ug/L	54.6	ND (2.7)	ND (2.7)	4.0 J	ND (2.7)	ND (2.7)	ND (2.7)
Iron	ug/L	94400	16.6 J	1620	38.6 J	24.1 J	142	1520
Iron (Dissolved)	ug/L	97700	ND (11.9)	1510	ND (11.9)	ND (11.9)	26.9 J	1050
Lead	ug/L	70.9	ND (1.3)	1.4 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Lead (Dissolved)	ug/L	41.2	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Magnesium	ug/L	265000	4070 J	6070	1920 J	6360	4630 J	1690 J
Magnesium (Dissolved)	ug/L	261000	4050 J	6590	1960 J	6460	4580 J	1800 J
Manganese	ug/L	14300	65.1	177	998	633	1620	271
Manganese (Dissolved)	ug/L	14100	32.7	182	1010	609	1550	258
Mercury	ug/L	6.9	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.053) U	ND (0.064) U
Mercury (Dissolved)	ug/L	0.38	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.047) U	ND (0.064) U
Nickel	ug/L	148	ND (1.6)	1.9 J	ND (1.6)	ND (1.6)	3.6 J	1.9 J

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-2-34*	*MW-23-D*	*MW-23-S*	*MW-24-D*	*MW-24-I*	*MW-24-S*
Sample ID:			*GW-15620-061809-MM-012*	*GW-15620-070909-RR-055*	*GW-15620-070909-RR-053*	*GW-15620-061109-MM-006*	*GW-15620-060909-MM-004*	*GW-15620-060909-MM-002*
Sample Date:			*6/18/2009*	*7/9/2009*	*7/9/2009*	*6/11/2009*	*6/9/2009*	*6/9/2009*
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	3.5 J	2.0 J
Potassium	ug/L	121000	1250 J	3550 J	5210	979 J	ND (1100) U	4990 J
Potassium (Dissolved)	ug/L	118000 J	1270 J	3730 J	5400	1230 J	ND (1070) U	4780 J
Selenium	ug/L	3.6 J	ND (3.0)	ND (3.0) UJ	ND (3.0) UJ	3.1 J	ND (3.0)	ND (3.0)
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	ND (3.0) UJ	ND (3.0) UJ	ND (3.0)	ND (3.0)	ND (3.0)
Silver	ug/L	5.5	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Silver (Dissolved)	ug/L	3.2 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	12400	116000	65000	11800	8630	33400
Sodium (Dissolved)	ug/L	2250000	12700	125000	65500	11900	8580	32500
Thallium	ug/L	6.1 J	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	ND (2.4)	ND (3.1) U	ND (2.7) U	ND (2.4)	ND (2.7) U	ND (2.4)
Vanadium	ug/L	28.8 J	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	ug/L	29.2 J	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	ug/L	254	148 J	108	28.5	ND (2.9) U	ND (5.6) U	ND (8.4) U
Zinc (Dissolved)	ug/L	170	ND (4.4) U	ND (7.1) U	ND (28.5) U	5.0 J	ND (5.5) U	ND (7.7) U
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0024)	ND (0.0024)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0025)	ND (0.0025)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0029)	ND (0.0029)	ND (0.0029)	ND (0.0029)	ND (0.0028)	ND (0.0028)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	ND (0.0018)	ND (0.0019)	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.0018)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0023)	ND (0.0023)	ND (0.0022)	ND (0.0022)	ND (0.0022)	0.069
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0023)	ND (0.0023)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0013)	ND (0.0014)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
Gases								
Carbon dioxide	ug/L	160000	1400	16000	20000	4500	8200	1400
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	58.1	80.0	51.5	99.7	76.2	149
Ammonia	mg/L	11.1	0.21	0.097 J	0.74	0.24	0.25	0.94
Chloride	mg/L	3900	9.1	207	90.0	23.7	8.1	45.8
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	0.41 J	1.0	3.9	0.86 J	1.6	6.2
Nitrate (as N)	mg/L	6.5	ND (0.0077)	0.77	6.1	0.13	ND (0.0077)	ND (0.0077)
Nitrite (as N)	mg/L	1.5	ND (0.0032)	0.47	0.20	ND (0.0032)	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	601	33.1	21.9	12.3	28.0	3.5	3.7

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-25-D*	*MW-25-D*	*MW-25-S*	*MW-26-S*	*MW-27-D*	*MW-27-S*
Sample ID:			*GW-15620-072209-RW-056*	*GW-15620-072209-RW-066*	*GW-15620-072209-RW-068*	*GW-15620-071009-RR-061*	*GW-15620-072109-RW-46*	*GW-15620-072109-RW-48*
Sample Date:			*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/10/2009*	*7/21/2009*	*7/21/2009*
				Duplicate				
Parameter	*Units*	*Max*						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (1.4)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (1.0)
1,1,2-Trichloroethane	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (1.0)
1,1-Dichloroethane	ug/L	0.52 J	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.58)
1,1-Dichloroethene	ug/L	ND	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (1.5)
1,2,3-Trichlorobenzene	ug/L	1300	ND (0.15)	ND (0.15) UJ	ND (0.15) UJ	6.8	ND (0.15)	ND (0.77)
1,2,4-Trichlorobenzene	ug/L	6300	ND (0.27)	ND (0.27)	ND (0.27)	22	ND (0.27)	1.6 J
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (0.14)	ND (0.14) UJ	ND (0.14) UJ	ND (0.14)	ND (0.14)	ND (0.70)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.90)
1,2-Dichlorobenzene	ug/L	8300	0.22 J	0.15 J	0.19 J	18	0.28 J	10
1,2-Dichloroethane	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (1.1)
1,2-Dichloropropane	ug/L	ND	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.47)
1,3-Dichlorobenzene	ug/L	1900	ND (0.11)	ND (0.11)	ND (0.11)	0.51 J	ND (0.11)	4.2 J
1,4-Dichlorobenzene	ug/L	3100	ND (0.21)	ND (0.21)	ND (0.21)	3.0	ND (0.21)	14
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (2.7)
2-Hexanone	ug/L	ND	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16) UJ	ND (0.16)	ND (0.80)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (2.6)
Acetone	ug/L	7.4 J	ND (2.5)	ND (2.5)	3.5 J	ND (2.5)	ND (2.5)	ND (12)
Benzene	ug/L	230 J	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	0.48 J	1.1 J
Bromodichloromethane	ug/L	4.2	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.65)
Bromoform	ug/L	ND	ND (0.19)	ND (0.19) UJ	ND (0.19) UJ	ND (0.19)	ND (0.19)	ND (0.96)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (0.31) UJ	ND (0.31) UJ	ND (0.31) UJ	ND (0.31)	ND (0.31) UJ	ND (1.6) UJ
Carbon disulfide	ug/L	2.8	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	1.3	ND (1.1)
Carbon tetrachloride	ug/L	ND	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.68)
Chlorobenzene	ug/L	19000	0.40 J	0.29 J	0.41 J	10	3.9	97
Chloroethane	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (1.1)
Chloroform (Trichloromethane)	ug/L	23	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.85)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (1.4)
cis-1,2-Dichloroethene	ug/L	49	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (1.2)
cis-1,3-Dichloropropene	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.93)
Cyclohexane	ug/L	9.8	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (1.3)
Dibromochloromethane	ug/L	0.39 J	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.68)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (0.19) UJ	ND (0.19)	ND (0.19)	ND (0.19) UJ	ND (0.19) UJ	ND (0.96) UJ
Ethylbenzene	ug/L	15 J	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (1.1)
Isopropylbenzene	ug/L	6.2 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.82)
Methyl acetate	ug/L	ND	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14) UJ	ND (0.14)	ND (0.69)
Methyl cyclohexane	ug/L	54	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (1.3)
Methyl Tert Butyl Ether	ug/L	12 J	ND (0.18)	ND (0.18)	ND (0.18)	3.1	0.95 J	ND (0.92)
Methylene chloride	ug/L	170 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.75)
Styrene	ug/L	ND	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.48)
Tetrachloroethene	ug/L	ND	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15) UJ	ND (0.15)	ND (0.74)
Toluene	ug/L	6100	ND (0.15)	0.15 J	0.18 J	ND (0.15)	0.29 J	ND (0.75)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.85)
trans-1,3-Dichloropropene	ug/L	ND	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.74)
Trichloroethene	ug/L	480	ND (0.14)	ND (0.14)	ND (0.23) U	ND (0.14)	ND (0.14)	ND (0.72)
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (0.20) UJ	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20) UJ	ND (0.99) UJ
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (1.6)
Vinyl chloride	ug/L	11	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (1.1)
Xylene (total)	ug/L	36 J	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (2.4)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-25-D*	*MW-25-D*	*MW-25-S*	*MW-26-S*	*MW-27-D*	*MW-27-S*
Sample ID:			*GW-15620-072209-RW-056*	*GW-15620-072209-RW-066*	*GW-15620-072209-RW-068*	*GW-15620-071009-RR-061*	*GW-15620-072109-RW-46*	*GW-15620-072109-RW-48*
Sample Date:			*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/10/2009*	*7/21/2009*	*7/21/2009*
				Duplicate				
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.34)	ND (0.33)	ND (0.33)	ND (0.35)	ND (0.33)	ND (0.33)
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.089)	ND (0.087)	ND (0.085)	ND (0.091)	ND (0.085)	ND (0.085)
2,4-Dichlorophenol	ug/L	7.7	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.079)	ND (0.077)	ND (0.076)	ND (0.080)	ND (0.076)	ND (0.076)
2,4-Dinitrophenol	ug/L	680	ND (6.0)	ND (5.9)	ND (5.8)	ND (6.1)	ND (5.8)	ND (5.8)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	ug/L	ND	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.18)
2-Chloronaphthalene	ug/L	20	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)
2-Chlorophenol	ug/L	27 J	ND (0.21)	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.20)	ND (0.20)
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)
2-Methylphenol	ug/L	15 J	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)
2-Nitrophenol	ug/L	2.3 J	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.36)	ND (0.34)	ND (0.34)
3-Nitroaniline	ug/L	0.98 J	ND (0.25)	ND (0.25)	ND (0.24)	ND (0.26)	ND (0.24)	ND (0.24)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.6)	ND (7.5)	ND (7.3)	ND (7.8)	ND (7.3)	ND (7.3)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.18)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.25)	ND (0.24)	ND (0.24)	ND (0.25)	ND (0.24)	ND (0.24)
4-Chloroaniline	ug/L	4.2 J	ND (1.1)	ND (1.0)	ND (1.0)	ND (1.1)	ND (1.0)	ND (1.0)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.10)	ND (0.10)	ND (0.098)	ND (0.10)	ND (0.098)	ND (0.098)
4-Methylphenol	ug/L	16 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)
4-Nitroaniline	ug/L	0.80 J	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.21)
4-Nitrophenol	ug/L	ND	ND (6.9)	ND (6.8)	ND (6.6)	ND (7.0)	ND (6.6)	ND (6.6)
Acenaphthene	ug/L	1.5 J	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Acenaphthylene	ug/L	0.80 J	ND (0.083)	ND (0.081)	ND (0.080)	ND (0.085)	ND (0.080)	ND (0.080)
Acetophenone	ug/L	ND	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.21)	ND (0.21)
Aniline	ug/L	2900	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.41)	ND (0.38)	ND (0.38)
Anthracene	ug/L	ND	ND (1.0)	ND (1.0)	ND (0.98)	ND (1.0)	ND (0.98)	ND (0.98)
Atrazine	ug/L	ND	ND (0.20)	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.19)
Benzaldehyde	ug/L	9.2 J	ND (0.49)	ND (0.48)	ND (0.47)	ND (0.50)	ND (0.47)	ND (0.47)
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.16)	ND (0.16)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)
Benzo(g,h,i)perylene	ug/L	7	ND (0.085)	ND (0.083)	ND (0.081)	ND (0.087)	ND (0.081)	ND (0.081)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.16)	ND (0.16)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.26)	ND (0.25)	ND (0.25)	ND (0.26)	ND (0.25)	ND (0.25)
bis(2-Ethylhexyl)phthalate	ug/L	14	ND (0.45)	4.6 J	ND (0.43)	ND (0.46)	ND (0.43)	ND (0.43)
Butyl benzylphthalate	ug/L	ND	ND (3.0)	ND (2.9)	ND (2.9)	ND (3.1)	ND (2.9)	ND (2.9)
Caprolactam	ug/L	36 J	ND (7.1)	ND (7.4) U	ND (6.8)	ND (7.2)	36 J	ND (6.8)
Carbazole	ug/L	1.0 J	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
Chrysene	ug/L	4.3	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.10)
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.12)	ND (0.12)
Dibenzofuran	ug/L	0.92 J	ND (0.18)	ND (0.18)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)
Diethyl phthalate	ug/L	30	ND (0.44)	1.3 J	0.97 J	ND (0.45)	11	ND (0.42)
Dimethyl phthalate	ug/L	ND	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.29)	ND (0.29)	ND (0.28)	ND (0.30)	ND (0.28)	ND (0.28)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-25-D*	*MW-25-D*	*MW-25-S*	*MW-26-S*	*MW-27-D*	*MW-27-S*
Sample ID:			*GW-15620-072209-RW-056*	*GW-15620-072209-RW-066*	*GW-15620-072209-RW-068*	*GW-15620-071009-RR-061*	*GW-15620-072109-RW-46*	*GW-15620-072109-RW-48*
Sample Date:			*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/10/2009*	*7/21/2009*	*7/21/2009*
				Duplicate				
Parameter	*Units*	*Max*						
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)
Fluoranthene	ug/L	1.1 J	ND (0.098)	ND (0.096)	ND (0.094)	ND (0.10)	ND (0.094)	ND (0.094)
Fluorene	ug/L	0.95 J	ND (0.097)	ND (0.095)	ND (0.093)	ND (0.099)	ND (0.093)	ND (0.093)
Hexachlorobenzene	ug/L	0.89 J	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)
Hexachlorobutadiene	ug/L	ND	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)
Hexachloroethane	ug/L	ND	ND (0.075)	ND (0.074)	ND (0.072)	ND (0.077)	ND (0.072)	ND (0.072)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)
Isophorone	ug/L	0.93 J	ND (0.28)	ND (0.28)	ND (0.27)	ND (0.29)	ND (0.27)	ND (0.27)
Naphthalene	ug/L	2200	ND (0.27)	ND (0.27)	ND (0.26)	ND (0.28)	ND (0.26)	ND (0.26)
Nitrobenzene	ug/L	15000	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.38)	ND (0.37)	ND (0.36)	ND (0.39)	ND (0.36)	ND (0.36)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.48)	ND (0.47)	ND (0.46)	ND (0.49)	ND (0.46)	ND (0.46)
Pentachlorophenol	ug/L	ND	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.9)	ND (1.8)	ND (1.8)
Phenanthrene	ug/L	1.2 J	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.28)	ND (0.27)	ND (0.27)
Phenol	ug/L	0.83 J	ND (0.23)	ND (0.23)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.22)
Pyrene	ug/L	1.4 J	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.10)
Metals								
Aluminum	ug/L	3440	ND (123) U	ND (153) U	1120	97.8 J	158 J	752
Aluminum (Dissolved)	ug/L	1170	ND (35.2) U	ND (35.8) U	ND (68.9) U	ND (29.7) U	ND (28.8) U	ND (18.0) U
Antimony	ug/L	2.3 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	1.4 J
Arsenic	ug/L	436	3.5 J	3.1 J	7.0 J	ND (2.7)	3.7 J	17.6
Arsenic (Dissolved)	ug/L	448	ND (2.7)	ND (2.7)	7.4 J	ND (2.7)	4.1 J	18.4
Barium	ug/L	626	21.9 J	22.3 J	22.2 J	8.2 J	60.4 J	10.4 J
Barium (Dissolved)	ug/L	679	14.8 J	15.2 J	14.3 J	8.4 J	52.7 J	6.6 J
Beryllium	ug/L	ND	ND (0.27) U	ND (0.26) U	ND (0.46) U	ND (0.28) U	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	ug/L	ND	ND (0.35) U	ND (0.30) U	ND (0.33) U	ND (0.23)	ND (0.23)	ND (0.23)
Cadmium	ug/L	8.3	ND (0.13)	0.17 J	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.70) U
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.79) U
Calcium	ug/L	219000	23300	23400	5650	9610	219000	10100
Calcium (Dissolved)	ug/L	226000	24400	23900	5660	10700	226000	11200
Chromium	ug/L	90.6	ND (0.57) U	ND (0.78) U	ND (4.2) U	ND (1.2) U	ND (1.1) U	ND (0.89) U
Chromium Total (Dissolved)	ug/L	17.4	ND (0.57)	ND (0.57)	ND (1.1) U	ND (0.57)	ND (0.57)	ND (0.57)
Cobalt	ug/L	113	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.81) U	ND (3.6) U
Cobalt (Dissolved)	ug/L	108	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.65) U	4.3 J
Copper	ug/L	294	ND (2.7)	2.9 J	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	ug/L	54.6	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Iron	ug/L	94400	341	376	20800	711	824	2180
Iron (Dissolved)	ug/L	97700	ND (11.9)	ND (11.9)	18700	304	515	2040
Lead	ug/L	70.9	1.4 J	3.7	5.3	ND (1.3)	ND (2.0) U	ND (2.5) U
Lead (Dissolved)	ug/L	41.2	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	1.6 J	ND (1.3)
Magnesium	ug/L	265000	4040 J	4060 J	1620 J	6840 J	41600	3100 J
Magnesium (Dissolved)	ug/L	261000	4230 J	4150 J	1530 J	7750 J	43600	3480 J
Manganese	ug/L	14300	50.4	47.8	863	115	1060	952 J
Manganese (Dissolved)	ug/L	14100	4.5 J	7.4 J	875	122	1110	1200 J
Mercury	ug/L	6.9	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	0.056 J
Mercury (Dissolved)	ug/L	0.38	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	0.050 J
Nickel	ug/L	148	3.2 J	4.1 J	4.0 J	1.9 J	2.8 J	1.9 J

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-25-D*	*MW-25-D*	*MW-25-S*	*MW-26-S*	*MW-27-D*	*MW-27-S*
Sample ID:			*GW-15620-072209-RW-056*	*GW-15620-072209-RW-066*	*GW-15620-072209-RW-068*	*GW-15620-071009-RR-061*	*GW-15620-072109-RW-46*	*GW-15620-072109-RW-48*
Sample Date:			*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/10/2009*	*7/21/2009*	*7/21/2009*
				Duplicate				
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	ND (1.6)	ND (1.6)	4.1 J	ND (1.6)	ND (1.6)	ND (1.6)
Potassium	ug/L	121000	12600	12800	1260 J	3290 J	7660	5110
Potassium (Dissolved)	ug/L	118000 J	7070	7540	ND (626) U	3750 J	4250 J	3950 J
Selenium	ug/L	3.6 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	ug/L	5.5	5.5	5.1	1.7 J	0.79 J	1.9 J	ND (0.68)
Silver (Dissolved)	ug/L	3.2 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	12000	12100	5970	21600	387000	22400
Sodium (Dissolved)	ug/L	2250000	9860	10100	6010	24200	395000	23900
Thallium	ug/L	6.1 J	ND (2.4)	ND (2.4)	2.4 J	ND (2.6) U	ND (2.4)	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	ND (2.4)	ND (2.4)	2.8 J	4.7 J	3.0 J	ND (2.4)
Vanadium	ug/L	28.8 J	ND (1.9)	ND (1.9)	5.9 J	ND (1.9)	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	ug/L	29.2 J	ND (1.9)	ND (1.9)	2.1 J	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	ug/L	254	ND (26.4) U	ND (23.2) U	ND (27.0) U	35.7	129	47.9
Zinc (Dissolved)	ug/L	170	ND (17.1) U	ND (13.1) U	ND (17.8) U	27.0	3.0 J	40.2
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0023)	ND (0.0024)	ND (0.0023)	ND (0.0024)	ND (0.0023)	ND (0.0024)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	0.021	0.026	0.026	ND (0.0018)	ND (0.0017)	ND (0.0018)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0021)	ND (0.0022)	ND (0.0021)	ND (0.0022)	ND (0.0021)	0.032
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	0.034
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
Gases								
Carbon dioxide	ug/L	160000	2200	1900	24000	38000	1400	7000
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	86.0	87.5	28.6	44.0	139	38.5
Ammonia	mg/L	11.1	ND (0.15) U	ND (0.39) U	1.5	1.2	0.45	0.98
Chloride	mg/L	3900	7.3	7.5	5.2	35.6	826	38.6
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	ND (0.88) U	ND (0.54) U	4.7	1.3	7.6	6.9
Nitrate (as N)	mg/L	6.5	0.81	0.82	0.078	0.26	ND (0.0077)	0.37
Nitrite (as N)	mg/L	1.5	ND (0.0032)	ND (0.0032)	ND (0.0032)	0.17	0.33	ND (0.0032)
Sulfate	mg/L	601	18.3	18.4	ND (0.78) U	26.2	151	3.8

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-27-S*	*MW-28-D*	*MW-28-D*	*MW-28-I*	*MW-28-S*	*MW-28-S*
Sample ID:			*GW-15620-072109-RW-50*	*GW-15620-070809-RR-049*	*GW-15620-070909-RR-049*	*GW-15620-070709-RR-047*	*GW-15620-070709-RR-045*	*GW-15620-070909-DS-045*
Sample Date:			*7/21/2009*	*7/8/2009*	*7/9/2009*	*7/7/2009*	*7/7/2009*	*7/9/2009*
			Duplicate					
Parameter	*Units*	*Max*						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (1.4)	ND (5.7)	-	ND (36)	ND (0.29)	-
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (1.0)	ND (4.0)	-	ND (25)	ND (0.20)	-
1,1,2-Trichloroethane	ug/L	ND	ND (1.0)	ND (4.0)	-	ND (25)	ND (0.20)	-
1,1-Dichloroethane	ug/L	0.52 J	ND (0.58)	ND (2.3)	-	ND (15)	ND (0.12)	-
1,1-Dichloroethene	ug/L	ND	ND (1.5)	ND (5.9)	-	ND (37)	ND (0.30)	-
1,2,3-Trichlorobenzene	ug/L	1300	ND (0.77)	ND (3.1)	-	ND (19)	0.24 J	-
1,2,4-Trichlorobenzene	ug/L	6300	1.4 J	6.6 J	-	35 J	0.69 J	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (0.70)	ND (2.8)	-	ND (18)	ND (0.14)	-
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (0.90)	ND (3.6)	-	ND (23)	ND (0.18)	-
1,2-Dichlorobenzene	ug/L	8300	10	80	-	96 J	1.1	-
1,2-Dichloroethane	ug/L	ND	ND (1.1)	ND (4.2)	-	ND (26)	ND (0.21)	-
1,2-Dichloropropane	ug/L	ND	ND (0.47)	ND (1.9)	-	ND (12)	ND (0.095)	-
1,3-Dichlorobenzene	ug/L	1900	4.8 J	13 J	-	62 J	1.6	-
1,4-Dichlorobenzene	ug/L	3100	15	37	-	190	3.0	-
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (2.7)	ND (11)	-	ND (68)	ND (0.55)	-
2-Hexanone	ug/L	ND	ND (0.80)	ND (3.2)	-	ND (20)	ND (0.16)	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (2.6)	ND (11)	-	ND (66)	ND (0.53)	-
Acetone	ug/L	7.4 J	ND (12)	ND (50)	-	ND (310)	ND (2.5)	-
Benzene	ug/L	230 J	1.0 J	7.3 J	-	ND (13)	ND (0.11)	-
Bromodichloromethane	ug/L	4.2	ND (0.65)	ND (2.6)	-	ND (16)	ND (0.13)	-
Bromoform	ug/L	ND	ND (0.96)	ND (3.8) UJ	-	ND (24)	ND (0.19)	-
Bromomethane (Methyl Bromide)	ug/L	ND	ND (1.6) UJ	ND (6.3)	-	ND (39)	ND (0.31)	-
Carbon disulfide	ug/L	2.8	ND (1.1)	ND (4.2)	-	ND (26)	ND (0.21)	-
Carbon tetrachloride	ug/L	ND	ND (0.68)	ND (2.7) UJ	-	ND (17)	ND (0.14)	-
Chlorobenzene	ug/L	19000	98	630	-	1500	14	-
Chloroethane	ug/L	ND	ND (1.1)	ND (4.3)	-	ND (27)	ND (0.21)	-
Chloroform (Trichloromethane)	ug/L	23	ND (0.85)	ND (3.4)	-	ND (21)	ND (0.17)	-
Chloromethane (Methyl Chloride)	ug/L	ND	ND (1.4)	ND (5.7)	-	ND (35)	ND (0.28)	-
cis-1,2-Dichloroethene	ug/L	49	ND (1.2)	ND (4.7)	-	ND (30)	ND (0.24)	-
cis-1,3-Dichloropropene	ug/L	ND	ND (0.93)	ND (3.7)	-	ND (23)	ND (0.19)	-
Cyclohexane	ug/L	9.8	ND (1.3)	ND (5.1)	-	ND (32)	ND (0.25)	-
Dibromochloromethane	ug/L	0.39 J	ND (0.68)	ND (2.7)	-	ND (17)	ND (0.14)	-
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (0.96) UJ	ND (3.8)	-	ND (24)	ND (0.19)	-
Ethylbenzene	ug/L	15 J	ND (1.1)	ND (4.5)	-	ND (28)	ND (0.23)	-
Isopropylbenzene	ug/L	6.2 J	ND (0.82)	ND (3.3)	-	ND (20)	ND (0.16)	-
Methyl acetate	ug/L	ND	ND (0.69)	ND (2.8)	-	ND (17)	ND (0.14)	-
Methyl cyclohexane	ug/L	54	ND (1.3)	ND (5.2)	-	ND (33)	ND (0.26)	-
Methyl Tert Butyl Ether	ug/L	12 J	ND (0.92)	ND (3.7)	-	ND (23)	ND (0.18)	-
Methylene chloride	ug/L	170 J	ND (0.75)	6.8 J	-	ND (19)	ND (0.15)	-
Styrene	ug/L	ND	ND (0.48)	ND (1.9)	-	ND (12)	ND (0.097)	-
Tetrachloroethene	ug/L	ND	ND (0.74)	ND (3.0)	-	ND (19)	ND (0.15)	-
Toluene	ug/L	6100	ND (0.75)	ND (3.0)	-	ND (19)	ND (0.15)	-
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (0.85)	ND (3.4)	-	ND (21)	ND (0.17)	-
trans-1,3-Dichloropropene	ug/L	ND	ND (0.74)	ND (3.0)	-	ND (18)	ND (0.15)	-
Trichloroethene	ug/L	480	ND (0.72)	ND (2.9)	-	ND (18)	ND (0.14)	-
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (0.99) UJ	ND (4.0)	-	ND (25)	ND (0.20)	-
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (1.6)	ND (6.4)	-	ND (40)	ND (0.32)	-
Vinyl chloride	ug/L	11	ND (1.1)	ND (4.5)	-	ND (28)	ND (0.23)	-
Xylene (total)	ug/L	36 J	ND (2.4)	ND (9.8)	-	ND (61)	ND (0.49)	-

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-27-S*	*MW-28-D*	*MW-28-D*	*MW-28-I*	*MW-28-S*	*MW-28-S*
Sample ID:			*GW-15620-072109-RW-50*	*GW-15620-070809-RR-049*	*GW-15620-070909-RR-049*	*GW-15620-070709-RR-047*	*GW-15620-070709-RR-045*	*GW-15620-070909-DS-045*
Sample Date:			*7/21/2009*	*7/8/2009*	*7/9/2009*	*7/7/2009*	*7/7/2009*	*7/9/2009*
			Duplicate					
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.33)	ND (0.40)	-	ND (0.36)	ND (0.36)	-
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.14)	ND (0.17)	-	ND (0.16)	ND (0.16)	-
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.085)	ND (0.10)	-	ND (0.094)	ND (0.094)	-
2,4-Dichlorophenol	ug/L	7.7	ND (0.13)	ND (0.15)	-	ND (0.14)	ND (0.14)	-
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.076)	ND (0.092)	-	ND (0.084)	ND (0.084)	-
2,4-Dinitrophenol	ug/L	680	ND (5.8)	ND (7.0)	-	ND (6.4)	ND (6.4)	-
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	ND (0.19)	-	ND (0.17)	ND (0.17)	-
2,6-Dinitrotoluene	ug/L	ND	ND (0.18)	ND (0.22)	-	ND (0.20)	ND (0.20)	-
2-Chloronaphthalene	ug/L	20	ND (0.14)	ND (0.17)	-	ND (0.16)	ND (0.16)	-
2-Chlorophenol	ug/L	27 J	ND (0.20)	ND (0.24)	-	ND (0.22)	ND (0.22)	-
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	ND (0.18)	-	ND (0.16)	ND (0.16)	-
2-Methylphenol	ug/L	15 J	ND (0.13)	ND (0.16)	-	ND (0.15)	ND (0.15)	-
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	ND (0.19)	-	ND (0.17)	ND (0.17)	-
2-Nitrophenol	ug/L	2.3 J	ND (0.13)	ND (0.16)	-	ND (0.15)	ND (0.15)	-
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.34)	ND (0.41)	-	ND (0.38)	ND (0.38)	-
3-Nitroaniline	ug/L	0.98 J	ND (0.24)	ND (0.30)	-	ND (0.27)	ND (0.27)	-
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.3)	ND (8.9)	-	ND (8.1)	ND (8.1)	-
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	ND (0.21)	-	ND (0.20)	ND (0.20)	-
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.24)	ND (0.29)	-	ND (0.26)	ND (0.26)	-
4-Chloroaniline	ug/L	4.2 J	ND (1.0)	ND (1.2)	-	ND (1.1)	ND (1.1)	-
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.098)	ND (0.12)	-	ND (0.11)	ND (0.11)	-
4-Methylphenol	ug/L	16 J	ND (0.17)	ND (0.20)	-	ND (0.18)	ND (0.18)	-
4-Nitroaniline	ug/L	0.80 J	ND (0.21)	ND (0.26)	-	ND (0.24)	ND (0.24)	-
4-Nitrophenol	ug/L	ND	ND (6.6)	ND (8.0)	-	ND (7.3)	ND (7.3)	-
Acenaphthene	ug/L	1.5 J	ND (0.14)	ND (0.16)	-	ND (0.15)	ND (0.15)	-
Acenaphthylene	ug/L	0.80 J	ND (0.080)	ND (0.096)	-	ND (0.088)	ND (0.088)	-
Acetophenone	ug/L	ND	ND (0.21)	ND (0.25)	-	ND (0.23)	ND (0.23)	-
Aniline	ug/L	2900	ND (0.38)	ND (0.47)	-	ND (0.42)	ND (0.42)	-
Anthracene	ug/L	ND	ND (0.98)	ND (1.2)	-	ND (1.1)	ND (1.1)	-
Atrazine	ug/L	ND	ND (0.19)	ND (0.23)	-	ND (0.21)	ND (0.21)	-
Benzaldehyde	ug/L	9.2 J	ND (0.47)	ND (0.57)	-	ND (0.52)	ND (0.52)	-
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	ND (0.20)	-	ND (0.18)	ND (0.18)	-
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	ND (0.13)	-	ND (0.12)	ND (0.12)	-
Benzo(b)fluoranthene	ug/L	3.9	ND (0.15)	ND (0.19)	-	ND (0.17)	ND (0.17)	-
Benzo(g,h,i)perylene	ug/L	7	ND (0.081)	ND (0.099)	-	ND (0.090)	ND (0.090)	-
Benzo(k)fluoranthene	ug/L	3.8	ND (0.15)	ND (0.19)	-	ND (0.17)	ND (0.17)	-
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.14)	ND (0.18)	-	ND (0.16)	ND (0.16)	-
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	ND (0.16)	-	ND (0.14)	ND (0.14)	-
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.25)	ND (0.30)	-	ND (0.27)	ND (0.27)	-
bis(2-Ethylhexyl)phthalate	ug/L	14	4.7 J	ND (0.53)	-	ND (0.48)	ND (0.48)	-
Butyl benzylphthalate	ug/L	ND	ND (2.9)	ND (3.5)	-	ND (3.2)	ND (3.2)	-
Caprolactam	ug/L	36 J	ND (6.8)	ND (8.2)	-	ND (7.5)	ND (7.5)	-
Carbazole	ug/L	1.0 J	ND (0.13)	ND (0.16)	-	ND (0.14)	ND (0.14)	-
Chrysene	ug/L	4.3	ND (0.10)	ND (0.12)	-	ND (0.11)	ND (0.11)	-
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	ND (0.15)	-	ND (0.13)	ND (0.13)	-
Dibenzofuran	ug/L	0.92 J	ND (0.17)	ND (0.21)	-	ND (0.19)	ND (0.19)	-
Diethyl phthalate	ug/L	30	ND (0.42)	ND (0.51)	-	ND (0.47)	ND (0.47)	-
Dimethyl phthalate	ug/L	ND	ND (0.13)	ND (0.16)	-	ND (0.15)	ND (0.15)	-
Di-n-butylphthalate	ug/L	2.0 J	ND (0.28)	ND (0.34)	-	ND (0.31)	ND (0.31)	-

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-27-S*	*MW-28-D*	*MW-28-D*	*MW-28-I*	*MW-28-S*	*MW-28-S*
Sample ID:			*GW-15620-072109-RW-50*	*GW-15620-070809-RR-049*	*GW-15620-070909-RR-049*	*GW-15620-070709-RR-047*	*GW-15620-070709-RR-045*	*GW-15620-070909-DS-045*
Sample Date:			*7/21/2009*	*7/8/2009*	*7/9/2009*	*7/7/2009*	*7/7/2009*	*7/9/2009*
			Duplicate					
Parameter	***Units***	***Max***						
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	ND (0.18)	-	ND (0.16)	ND (0.16)	-
Fluoranthene	ug/L	1.1 J	ND (0.094)	ND (0.11)	-	ND (0.10)	ND (0.10)	-
Fluorene	ug/L	0.95 J	ND (0.093)	ND (0.11)	-	ND (0.10)	ND (0.10)	-
Hexachlorobenzene	ug/L	0.89 J	ND (0.17)	ND (0.21)	-	ND (0.19)	ND (0.19)	-
Hexachlorobutadiene	ug/L	ND	ND (0.11)	ND (0.14)	-	ND (0.13)	ND (0.13)	-
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	ND (0.13)	-	ND (0.12)	ND (0.12)	-
Hexachloroethane	ug/L	ND	ND (0.072)	ND (0.087)	-	ND (0.080)	ND (0.080)	-
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.15)	ND (0.18)	-	ND (0.17)	ND (0.17)	-
Isophorone	ug/L	0.93 J	ND (0.27)	ND (0.33)	-	ND (0.30)	ND (0.30)	-
Naphthalene	ug/L	2200	ND (0.26)	ND (0.32)	-	0.64 J	ND (0.29)	-
Nitrobenzene	ug/L	15000	ND (0.17)	45	-	35	ND (0.19)	-
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.36)	ND (0.44)	-	ND (0.40)	ND (0.40)	-
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.46)	ND (0.56)	-	ND (0.51)	ND (0.51)	-
Pentachlorophenol	ug/L	ND	ND (1.8)	ND (2.1)	-	ND (2.0)	ND (2.0)	-
Phenanthrene	ug/L	1.2 J	ND (0.27)	ND (0.32)	-	ND (0.30)	ND (0.30)	-
Phenol	ug/L	0.83 J	ND (0.22)	ND (0.27)	-	ND (0.25)	ND (0.25)	-
Pyrene	ug/L	1.4 J	ND (0.10)	ND (0.13)	-	ND (0.12)	ND (0.12)	-
Metals								
Aluminum	ug/L	3440	678	ND (38.8) U	-	ND (9.7) U	640	-
Aluminum (Dissolved)	ug/L	1170	ND (16.9) U	ND (19.6) U	-	ND (33.9) U	579	-
Antimony	ug/L	2.3 J	ND (1.3)	ND (1.3)	-	ND (1.3)	ND (1.3)	-
Antimony (Dissolved)	ug/L	5.1 J	1.4 J	ND (1.3)	-	ND (1.3)	ND (1.3)	-
Arsenic	ug/L	436	16.4	3.0 J	-	ND (2.7)	ND (2.7)	-
Arsenic (Dissolved)	ug/L	448	19.0	2.8 J	-	ND (2.7)	ND (2.7)	-
Barium	ug/L	626	9.9 J	36.5 J	-	22.5 J	14.2 J	-
Barium (Dissolved)	ug/L	679	6.3 J	35.7 J	-	21.5 J	15.8 J	-
Beryllium	ug/L	ND	ND (0.23)	ND (0.23)	-	ND (0.37) U	ND (0.55) U	-
Beryllium (Dissolved)	ug/L	ND	ND (0.23)	ND (0.23)	-	ND (0.43) U	ND (0.46) U	-
Cadmium	ug/L	8.3	ND (0.65) U	ND (0.13)	-	ND (0.13)	ND (0.13)	-
Cadmium (Dissolved)	ug/L	7.9	ND (0.82) U	ND (0.13)	-	ND (0.13)	ND (0.13)	-
Calcium	ug/L	219000	9570	136000	-	18600	1900 J	-
Calcium (Dissolved)	ug/L	226000	10900	137000	-	18200	2480 J	-
Chromium	ug/L	90.6	ND (0.57)	ND (0.57) J	-	ND (1.7) U	ND (0.81) U	-
Chromium Total (Dissolved)	ug/L	17.4	ND (0.57)	ND (0.57) J	-	ND (0.76) U	ND (0.73) U	-
Cobalt	ug/L	113	ND (3.4) U	1.1 J	-	10.1 J	12.3 J	-
Cobalt (Dissolved)	ug/L	108	ND (3.9) U	1.5 J	-	9.5 J	11.0 J	-
Copper	ug/L	294	ND (2.7)	15.2 J	-	ND (2.7)	ND (2.7)	-
Copper (Dissolved)	ug/L	54.6	ND (2.7)	ND (2.7)	-	ND (2.7)	ND (2.7)	-
Iron	ug/L	94400	1980	255	-	199	80.4 J	-
Iron (Dissolved)	ug/L	97700	1950	61.2 J	-	66.0 J	70.2 J	-
Lead	ug/L	70.9	ND (3.6) U	1.6 J	-	1.6 J	ND (1.3)	-
Lead (Dissolved)	ug/L	41.2	ND (1.3)	ND (1.3)	-	ND (1.3)	ND (1.3)	-
Magnesium	ug/L	265000	2890 J	26000	-	4580 J	1100 J	-
Magnesium (Dissolved)	ug/L	261000	3330 J	26400	-	4530 J	1200 J	-
Manganese	ug/L	14300	900	1070	-	3670	2250	-
Manganese (Dissolved)	ug/L	14100	1150	1070	-	3560	2140	-
Mercury	ug/L	6.9	0.061 J	ND (0.038)	-	ND (0.038)	ND (0.038)	-
Mercury (Dissolved)	ug/L	0.38	0.043 J	ND (0.038)	-	ND (0.038)	ND (0.038)	-
Nickel	ug/L	148	1.9 J	ND (1.6)	-	ND (8.5) U	ND (4.6) U	-

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-27-S*	*MW-28-D*	*MW-28-D*	*MW-28-I*	*MW-28-S*	*MW-28-S*
Sample ID:			*GW-15620-072109-RW-50*	*GW-15620-070809-RR-049*	*GW-15620-070909-RR-049*	*GW-15620-070709-RR-047*	*GW-15620-070709-RR-045*	*GW-15620-070909-DS-045*
Sample Date:			*7/21/2009*	*7/8/2009*	*7/9/2009*	*7/7/2009*	*7/7/2009*	*7/9/2009*
			Duplicate					
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	ND (1.6)	ND (1.6)	-	ND (7.8) U	ND (4.1) U	-
Potassium	ug/L	121000	4770 J	2990 J	-	3090 J	ND (950) U	-
Potassium (Dissolved)	ug/L	118000 J	3860 J	3020 J	-	3040 J	ND (955) U	-
Selenium	ug/L	3.6 J	ND (3.0)	ND (3.0) UJ	-	ND (3.0)	ND (3.0)	-
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	ND (3.0) UJ	-	ND (3.0)	ND (3.0)	-
Silver	ug/L	5.5	ND (0.68)	ND (0.68)	-	0.94 J	ND (0.68)	-
Silver (Dissolved)	ug/L	3.2 J	ND (0.68)	ND (0.68)	-	0.78 J	ND (0.68)	-
Sodium	ug/L	2300000	21100	412000	-	68700	7760 J	-
Sodium (Dissolved)	ug/L	2250000	23200	417000	-	67400	10700 J	-
Thallium	ug/L	6.1 J	ND (2.4)	ND (2.4)	-	ND (2.4)	ND (2.4)	-
Thallium (Dissolved)	ug/L	6.1 J	ND (2.4)	ND (2.4)	-	ND (2.4)	ND (2.4)	-
Vanadium	ug/L	28.8 J	ND (1.9)	ND (1.9)	-	ND (1.9)	ND (1.9)	-
Vanadium (Dissolved)	ug/L	29.2 J	ND (1.9)	ND (1.9)	-	ND (1.9)	ND (1.9)	-
Zinc	ug/L	254	45.1	ND (14.7) U	-	10.1 J	50.3	-
Zinc (Dissolved)	ug/L	170	38.7	ND (5.4) U	-	13.2 J	49.1	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0024)	ND (0.0025)	-	ND (0.0025)	ND (0.0024)	-
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0024)	ND (0.0024)	-	ND (0.0025)	ND (0.0024)	-
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0028)	ND (0.0029)	-	ND (0.0029)	ND (0.0028)	-
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	ND (0.0018)	ND (0.0018)	-	ND (0.0019)	ND (0.0018)	-
Aroclor-1248 (PCB-1248)	ug/L	0.069	0.024	ND (0.0022)	-	ND (0.0023)	ND (0.0022)	-
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0022)	ND (0.0022)	-	ND (0.0023)	ND (0.0022)	-
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0013)	ND (0.0013)	-	ND (0.0014)	ND (0.0013)	-
Gases								
Carbon dioxide	ug/L	160000	7600	1400	-	26000	20000	-
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	37.6	-	126	50.0	ND (2.4) U	-
Ammonia	mg/L	11.1	0.97	0.50	-	0.63	0.28	-
Chloride	mg/L	3900	38.8	-	638	101	9.4	-
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	6.2	0.91 J	-	1.7	-	5.6
Nitrate (as N)	mg/L	6.5	0.38	-	ND (0.0077)	1.9	0.055	-
Nitrite (as N)	mg/L	1.5	ND (0.0032)	-	0.31	0.20	ND (0.0032)	-
Sulfate	mg/L	601	4.0	-	147	26.3	13.8	-

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-29-D*	*MW-29-D*	*MW-29-I*	*MW-29-I*	*MW-29-S*	*MW-30-D*
Sample ID:			*GW-15620-072109-RR-069*	*GW-15620-072109-RW-69*	*GW-15620-072109-RR-067*	*GW-15620-072109-RW-67*	*GW-15620-072009-RR-065*	*GW-15620-072209-RW-070*
Sample Date:			*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/20/2009*	*7/22/2009*
Parameter	***Units***	***Max***						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (0.29)	-	ND (0.29)	-	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (0.20)	-	ND (0.20)	-	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	ug/L	ND	ND (0.20)	-	ND (0.20)	-	ND (0.20)	ND (0.20)
1,1-Dichloroethane	ug/L	0.52 J	ND (0.12)	-	ND (0.12)	-	ND (0.12)	ND (0.12)
1,1-Dichloroethene	ug/L	ND	ND (0.30)	-	ND (0.30)	-	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	ug/L	1300	ND (0.15)	-	ND (0.15)	-	ND (0.15)	ND (0.15) UJ
1,2,4-Trichlorobenzene	ug/L	6300	ND (0.27)	-	ND (0.27)	-	ND (0.27)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (0.14)	-	ND (0.14)	-	ND (0.14)	ND (0.14) UJ
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (0.18)	-	ND (0.18)	-	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	ug/L	8300	ND (0.15)	-	ND (0.15)	-	ND (0.15)	ND (0.15)
1,2-Dichloroethane	ug/L	ND	ND (0.21)	-	ND (0.21)	-	ND (0.21)	ND (0.21)
1,2-Dichloropropane	ug/L	ND	ND (0.095)	-	ND (0.095)	-	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	ug/L	1900	ND (0.11)	-	ND (0.11)	-	ND (0.11)	ND (0.11)
1,4-Dichlorobenzene	ug/L	3100	ND (0.21)	-	ND (0.21)	-	ND (0.21)	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (0.55)	-	ND (0.55)	-	ND (0.55)	ND (0.55)
2-Hexanone	ug/L	ND	ND (0.16)	-	ND (0.16)	-	ND (0.16)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (0.53)	-	ND (0.53)	-	ND (0.53)	ND (0.53)
Acetone	ug/L	7.4 J	ND (2.5)	-	ND (2.5)	-	ND (2.5)	ND (2.5)
Benzene	ug/L	230 J	ND (0.11)	-	ND (0.11)	-	ND (0.11)	ND (0.11)
Bromodichloromethane	ug/L	4.2	ND (0.13)	-	ND (0.13)	-	ND (0.13)	ND (0.13)
Bromoform	ug/L	ND	ND (0.19)	-	ND (0.19)	-	ND (0.19)	ND (0.19) UJ
Bromomethane (Methyl Bromide)	ug/L	ND	ND (0.31) UJ	-	ND (0.31)	-	ND (0.31)	ND (0.31) UJ
Carbon disulfide	ug/L	2.8	ND (0.21)	-	ND (0.21)	-	ND (0.21)	ND (0.21)
Carbon tetrachloride	ug/L	ND	ND (0.14)	-	ND (0.14)	-	ND (0.14)	ND (0.14)
Chlorobenzene	ug/L	19000	ND (0.14)	-	ND (0.14)	-	ND (0.14)	0.16 J
Chloroethane	ug/L	ND	ND (0.21)	-	ND (0.21)	-	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	ug/L	23	ND (0.17)	-	ND (0.17)	-	ND (0.17)	ND (0.17)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (0.28)	-	ND (0.28)	-	ND (0.28)	ND (0.28)
cis-1,2-Dichloroethene	ug/L	49	ND (0.24)	-	ND (0.24)	-	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	ug/L	ND	ND (0.19)	-	ND (0.19)	-	ND (0.19)	ND (0.19)
Cyclohexane	ug/L	9.8	ND (0.25)	-	ND (0.25)	-	ND (0.25)	ND (0.25)
Dibromochloromethane	ug/L	0.39 J	ND (0.14)	-	ND (0.14)	-	ND (0.14)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (0.19) UJ	-	ND (0.19)	-	ND (0.19)	ND (0.19)
Ethylbenzene	ug/L	15 J	ND (0.23)	-	ND (0.23)	-	ND (0.23)	ND (0.23)
Isopropylbenzene	ug/L	6.2 J	ND (0.16)	-	ND (0.16)	-	ND (0.16)	ND (0.16)
Methyl acetate	ug/L	ND	ND (0.14)	-	ND (0.14)	-	ND (0.14)	ND (0.14)
Methyl cyclohexane	ug/L	54	ND (0.26)	-	ND (0.26)	-	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	ug/L	12 J	ND (0.18)	-	ND (0.18)	-	ND (0.18)	ND (0.18)
Methylene chloride	ug/L	170 J	ND (0.15)	-	ND (0.15)	-	ND (0.15)	ND (0.15)
Styrene	ug/L	ND	ND (0.097)	-	ND (0.097)	-	ND (0.097)	ND (0.097)
Tetrachloroethene	ug/L	ND	ND (0.15)	-	ND (0.15)	-	ND (0.15)	ND (0.15)
Toluene	ug/L	6100	ND (0.15)	-	0.15 J	-	ND (0.15)	ND (0.15)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (0.17)	-	ND (0.17)	-	ND (0.17)	ND (0.17)
trans-1,3-Dichloropropene	ug/L	ND	ND (0.15)	-	ND (0.15)	-	ND (0.15)	ND (0.15)
Trichloroethene	ug/L	480	ND (0.14)	-	ND (0.14)	-	ND (0.14)	ND (0.22) U
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (0.20) UJ	-	ND (0.20)	-	ND (0.20)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (0.32)	-	ND (0.32)	-	ND (0.32)	ND (0.32)
Vinyl chloride	ug/L	11	ND (0.23)	-	ND (0.23)	-	ND (0.23)	ND (0.23)
Xylene (total)	ug/L	36 J	ND (0.49)	-	ND (0.49)	-	ND (0.49)	ND (0.49)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-29-D*	*MW-29-D*	*MW-29-I*	*MW-29-I*	*MW-29-S*	*MW-30-D*
Sample ID:			*GW-15620-072109-RR-069*	*GW-15620-072109-RW-69*	*GW-15620-072109-RR-067*	*GW-15620-072109-RW-67*	*GW-15620-072009-RR-065*	*GW-15620-072209-RW-070*
Sample Date:			*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/20/2009*	*7/22/2009*
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.35)	-	ND (0.34)	-	ND (0.33)	ND (0.33)
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.15)	-	ND (0.15)	-	ND (0.14)	ND (0.14)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.092)	-	ND (0.089)	-	ND (0.086)	ND (0.086)
2,4-Dichlorophenol	ug/L	7.7	ND (0.14)	-	ND (0.13)	-	ND (0.13)	ND (0.13)
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.081)	-	ND (0.079)	-	ND (0.076)	ND (0.076)
2,4-Dinitrophenol	ug/L	680	ND (6.2)	-	ND (6.0)	-	ND (5.8)	ND (5.8)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.17)	-	ND (0.16)	-	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	ug/L	ND	ND (0.19)	-	ND (0.19)	-	ND (0.18)	ND (0.18)
2-Chloronaphthalene	ug/L	20	ND (0.15)	-	ND (0.15)	-	ND (0.14)	ND (0.14)
2-Chlorophenol	ug/L	27 J	ND (0.21)	-	ND (0.21)	-	ND (0.20)	ND (0.20)
2-Methylnaphthalene	ug/L	0.71 J	ND (0.16)	-	ND (0.15)	-	ND (0.15)	ND (0.15)
2-Methylphenol	ug/L	15 J	ND (0.14)	-	ND (0.14)	-	ND (0.13)	ND (0.13)
2-Nitroaniline	ug/L	1.1 J	ND (0.17)	-	ND (0.16)	-	ND (0.16)	ND (0.16)
2-Nitrophenol	ug/L	2.3 J	ND (0.14)	-	ND (0.14)	-	ND (0.13)	ND (0.13)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.37)	-	ND (0.35)	-	ND (0.34)	ND (0.34)
3-Nitroaniline	ug/L	0.98 J	ND (0.26)	-	ND (0.25)	-	ND (0.25)	ND (0.25)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.9)	-	ND (7.6)	-	ND (7.4)	ND (7.4)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.19)	-	ND (0.18)	-	ND (0.18)	ND (0.18)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.26)	-	ND (0.25)	-	ND (0.24)	ND (0.24)
4-Chloroaniline	ug/L	4.2 J	ND (1.1)	-	ND (1.1)	-	ND (1.0)	ND (1.0)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.11)	-	ND (0.10)	-	ND (0.099)	ND (0.099)
4-Methylphenol	ug/L	16 J	ND (0.18)	-	ND (0.17)	-	ND (0.17)	ND (0.17)
4-Nitroaniline	ug/L	0.80 J	ND (0.23)	-	ND (0.22)	-	ND (0.22)	ND (0.22)
4-Nitrophenol	ug/L	ND	ND (7.1)	-	ND (6.9)	-	ND (6.7)	ND (6.7)
Acenaphthene	ug/L	1.5 J	ND (0.15)	-	ND (0.14)	-	ND (0.14)	ND (0.14)
Acenaphthylene	ug/L	0.80 J	ND (0.085)	-	ND (0.083)	-	ND (0.080)	ND (0.080)
Acetophenone	ug/L	ND	ND (0.22)	-	ND (0.22)	-	ND (0.21)	ND (0.21)
Aniline	ug/L	2900	ND (0.41)	-	ND (0.40)	-	ND (0.39)	ND (0.39)
Anthracene	ug/L	ND	ND (1.0)	-	ND (1.0)	-	ND (0.99)	ND (0.99)
Atrazine	ug/L	ND	ND (0.20)	-	ND (0.20)	-	ND (0.19)	ND (0.19)
Benzaldehyde	ug/L	9.2 J	ND (0.51)	-	ND (0.49)	-	ND (0.48)	ND (0.48)
Benzo(a)anthracene	ug/L	3.3	ND (0.18)	-	ND (0.17)	-	ND (0.17)	ND (0.17)
Benzo(a)pyrene	ug/L	8.4	ND (0.12)	-	ND (0.11)	-	ND (0.11)	ND (0.11)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.16)	-	ND (0.16)	-	ND (0.15)	ND (0.15)
Benzo(g,h,i)perylene	ug/L	7	ND (0.087)	-	ND (0.085)	-	ND (0.082)	ND (0.082)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.17)	-	ND (0.16)	-	ND (0.16)	ND (0.16)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.16)	-	ND (0.15)	-	ND (0.15)	ND (0.15)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.14)	-	ND (0.13)	-	ND (0.13)	ND (0.13)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.27)	-	ND (0.26)	-	ND (0.25)	ND (0.25)
bis(2-Ethylhexyl)phthalate	ug/L	14	7.4 J	-	ND (0.45)	-	ND (0.44)	3.3 J
Butyl benzylphthalate	ug/L	ND	ND (3.1)	-	ND (3.0)	-	ND (2.9)	ND (2.9)
Caprolactam	ug/L	36 J	ND (7.3)	-	ND (7.1)	-	ND (6.9)	ND (9.6) U
Carbazole	ug/L	1.0 J	ND (0.14)	-	ND (0.13)	-	ND (0.13)	ND (0.13)
Chrysene	ug/L	4.3	ND (0.11)	-	ND (0.11)	-	ND (0.10)	ND (0.10)
Dibenz(a,h)anthracene	ug/L	12	ND (0.13)	-	ND (0.12)	-	ND (0.12)	ND (0.12)
Dibenzofuran	ug/L	0.92 J	ND (0.19)	-	ND (0.18)	-	ND (0.18)	ND (0.18)
Diethyl phthalate	ug/L	30	ND (0.45)	-	ND (0.44)	-	ND (0.43)	1.0 J
Dimethyl phthalate	ug/L	ND	ND (0.14)	-	ND (0.14)	-	ND (0.13)	ND (0.13)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.30)	-	ND (0.29)	-	ND (0.28)	ND (0.28)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-29-D*	*MW-29-D*	*MW-29-I*	*MW-29-I*	*MW-29-S*	*MW-30-D*
Sample ID:			*GW-15620-072109-RR-069*	*GW-15620-072109-RW-69*	*GW-15620-072109-RR-067*	*GW-15620-072109-RW-67*	*GW-15620-072009-RR-065*	*GW-15620-072209-RW-070*
Sample Date:			*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/20/2009*	*7/22/2009*
Parameter	***Units***	***Max***						
Di-n-octyl phthalate	ug/L	10 J	ND (0.16)	-	ND (0.15)	-	ND (0.15)	ND (0.15)
Fluoranthene	ug/L	1.1 J	ND (0.10)	-	ND (0.098)	-	ND (0.095)	ND (0.095)
Fluorene	ug/L	0.95 J	ND (0.10)	-	ND (0.097)	-	ND (0.094)	ND (0.094)
Hexachlorobenzene	ug/L	0.89 J	ND (0.18)	-	ND (0.18)	-	ND (0.17)	ND (0.17)
Hexachlorobutadiene	ug/L	ND	ND (0.12)	-	ND (0.12)	-	ND (0.12)	ND (0.12)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.12)	-	ND (0.11)	-	ND (0.11)	ND (0.11)
Hexachloroethane	ug/L	ND	ND (0.077)	-	ND (0.075)	-	ND (0.073)	ND (0.073)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.16)	-	ND (0.16)	-	ND (0.15)	ND (0.15)
Isophorone	ug/L	0.93 J	ND (0.29)	-	ND (0.28)	-	ND (0.27)	ND (0.27)
Naphthalene	ug/L	2200	ND (0.28)	-	ND (0.27)	-	ND (0.26)	ND (0.26)
Nitrobenzene	ug/L	15000	ND (0.18)	-	ND (0.18)	-	ND (0.17)	ND (0.17)
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.39)	-	ND (0.38)	-	ND (0.37)	ND (0.37)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.49)	-	ND (0.48)	-	ND (0.46)	ND (0.46)
Pentachlorophenol	ug/L	ND	ND (1.9)	-	ND (1.8)	-	ND (1.8)	ND (1.8)
Phenanthrene	ug/L	1.2 J	ND (0.29)	-	ND (0.28)	-	ND (0.27)	ND (0.27)
Phenol	ug/L	0.83 J	ND (0.24)	-	ND (0.23)	-	ND (0.22)	ND (0.22)
Pyrene	ug/L	1.4 J	ND (0.11)	-	ND (0.11)	-	ND (0.11)	ND (0.11)
Metals								
Aluminum	ug/L	3440	ND (9.7)	-	ND (12.5) U	-	36.1 J	ND (44.5) U
Aluminum (Dissolved)	ug/L	1170	ND (18.9) U	-	ND (13.6) U	-	ND (9.7)	ND (45.4) U
Antimony	ug/L	2.3 J	ND (1.3)	-	ND (1.3)	-	ND (1.3)	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	ND (1.3)	-	ND (1.3)	-	ND (1.3)	ND (1.3)
Arsenic	ug/L	436	ND (2.7)	-	ND (2.7)	-	ND (2.7)	ND (2.7)
Arsenic (Dissolved)	ug/L	448	ND (2.7)	-	ND (2.7)	-	ND (2.7)	ND (2.7)
Barium	ug/L	626	36.1 J	-	8.1 J	-	10.7 J	9.7 J
Barium (Dissolved)	ug/L	679	37.0 J	-	8.7 J	-	10.5 J	10.3 J
Beryllium	ug/L	ND	ND (0.23)	-	ND (0.23)	-	ND (0.23)	ND (0.24) U
Beryllium (Dissolved)	ug/L	ND	ND (0.23)	-	ND (0.23)	-	ND (0.23)	ND (0.28) U
Cadmium	ug/L	8.3	ND (0.13)	-	ND (0.13)	-	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	-	ND (0.13)	-	ND (0.13)	ND (0.13)
Calcium	ug/L	219000	56200	-	22700	-	20900	19500
Calcium (Dissolved)	ug/L	226000	57900	-	23900	-	20600	19200
Chromium	ug/L	90.6	ND (0.57)	-	ND (0.57)	-	ND (0.69) U	ND (0.57)
Chromium Total (Dissolved)	ug/L	17.4	ND (0.57)	-	ND (0.57)	-	ND (0.57)	ND (0.57)
Cobalt	ug/L	113	ND (0.40)	-	ND (0.95) U	-	0.69 J	ND (0.40)
Cobalt (Dissolved)	ug/L	108	ND (0.40)	-	ND (1.1) U	-	0.82 J	ND (0.40)
Copper	ug/L	294	ND (2.7)	-	ND (2.7)	-	ND (2.7)	ND (2.7)
Copper (Dissolved)	ug/L	54.6	ND (2.7)	-	ND (2.7)	-	ND (2.7)	ND (2.7)
Iron	ug/L	94400	ND (39.0) U	-	ND (12.6) U	-	795	43.2 J
Iron (Dissolved)	ug/L	97700	37.8 J	-	ND (11.9)	-	626	69.1 J
Lead	ug/L	70.9	ND (1.3)	-	ND (1.3)	-	ND (1.3)	ND (1.3)
Lead (Dissolved)	ug/L	41.2	1.7 J	-	1.3 J	-	ND (1.3)	ND (1.4) U
Magnesium	ug/L	265000	3230 J	-	3430 J	-	3060 J	3360 J
Magnesium (Dissolved)	ug/L	261000	3370 J	-	3630 J	-	3000 J	3360 J
Manganese	ug/L	14300	392	-	ND (0.68)	-	143	16.4
Manganese (Dissolved)	ug/L	14100	403	-	ND (0.68)	-	140	18.5
Mercury	ug/L	6.9	ND (0.038)	-	ND (0.038)	-	ND (0.038)	ND (0.038)
Mercury (Dissolved)	ug/L	0.38	ND (0.038)	-	ND (0.038)	-	ND (0.038)	ND (0.038)
Nickel	ug/L	148	ND (1.6)	-	ND (1.6)	-	ND (1.6)	ND (1.6)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-29-D*	*MW-29-D*	*MW-29-I*	*MW-29-I*	*MW-29-S*	*MW-30-D*
Sample ID:			*GW-15620-072109-RR-069*	*GW-15620-072109-RW-69*	*GW-15620-072109-RR-067*	*GW-15620-072109-RW-67*	*GW-15620-072009-RR-065*	*GW-15620-072209-RW-070*
Sample Date:			*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/20/2009*	*7/22/2009*
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	ND (1.6)	-	ND (1.6)	-	ND (1.6)	ND (1.6)
Potassium	ug/L	121000	513 J	-	754 J	-	688 J	ND (1080) U
Potassium (Dissolved)	ug/L	118000 J	431 J	-	653 J	-	ND (691) U	ND (925) U
Selenium	ug/L	3.6 J	ND (3.0)	-	ND (3.0)	-	ND (3.0)	ND (3.0)
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	-	3.1 J	-	ND (3.0)	ND (3.0)
Silver	ug/L	5.5	ND (0.68)	-	ND (0.68)	-	ND (0.68)	ND (0.68)
Silver (Dissolved)	ug/L	3.2 J	ND (0.68)	-	ND (0.68)	-	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	5530	-	6420	-	6550	7220
Sodium (Dissolved)	ug/L	2250000	5640	-	6660	-	6300	7210
Thallium	ug/L	6.1 J	ND (2.4)	-	ND (2.4)	-	2.8 J	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	2.9 J	-	ND (2.4)	-	ND (4.1) U	ND (2.4)
Vanadium	ug/L	28.8 J	ND (1.9)	-	ND (1.9)	-	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	ug/L	29.2 J	ND (1.9)	-	ND (1.9)	-	ND (1.9)	ND (1.9)
Zinc	ug/L	254	2.7 J	-	2.6 J	-	ND (9.9) U	ND (13.6) U
Zinc (Dissolved)	ug/L	170	ND (2.5)	-	6.0 J	-	ND (10.9) U	ND (9.8) U
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0025)	-	ND (0.0025)	-	ND (0.0025)	ND (0.0024)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0025)	-	ND (0.0025)	-	ND (0.0025)	ND (0.0023)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0029)	-	ND (0.0029)	-	ND (0.0029)	ND (0.0028)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	ND (0.0019)	-	ND (0.0019)	-	ND (0.0019)	ND (0.0017)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0023)	-	ND (0.0023)	-	ND (0.0023)	ND (0.0021)
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0023)	-	ND (0.0023)	-	ND (0.0023)	ND (0.0022)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0014)	-	ND (0.0014)	-	ND (0.0014)	ND (0.0013)
Gases								
Carbon dioxide	ug/L	160000	-	3600	-	13000	18000	19000
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	133	-	22.8	-	22.8	15.7
Ammonia	mg/L	11.1	0.15	-	0.20	-	0.19	ND (0.37) U
Chloride	mg/L	3900	11.4	-	20.8	-	15.8	20.5
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	1.2	-	0.73 J	-	ND (0.73) U	1.8
Nitrate (as N)	mg/L	6.5	ND (0.0077)	-	3.0	-	3.1	2.6
Nitrite (as N)	mg/L	1.5	ND (0.0032)	-	ND (0.0032)	-	ND (0.0032)	0.037 J
Sulfate	mg/L	601	17.5	-	18.7	-	18.0	19.5

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-30-S*	*MW-31-D*	*MW-31R-S*	*MW-32-I*	*MW-33-S*	*MW-34-I*
Sample ID:			*GW-15620-072209-RW-072*	*GW-15620-070109-RR-035*	*GW-15620-072009-RR-062*	*GW-15620-072309-RW-84*	*GW-15620-072709-RR-091*	*GW-15620-072309-RW-78*
Sample Date:			*7/22/2009*	*7/1/2009*	*7/20/2009*	*7/23/2009*	*7/27/2009*	*7/23/2009*
Parameter	***Units***	***Max***						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (0.29)	ND (0.29)	ND (0.29)	ND (7.2)	ND (7.2)	ND (140)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (5.0)	ND (5.0)	ND (100)
1,1,2-Trichloroethane	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (5.0)	ND (5.0)	ND (100)
1,1-Dichloroethane	ug/L	0.52 J	ND (0.12)	ND (0.12)	ND (0.12)	ND (2.9)	ND (2.9)	ND (58)
1,1-Dichloroethene	ug/L	ND	ND (0.30)	ND (0.30)	ND (0.30)	ND (7.4)	ND (7.4)	ND (150)
1,2,3-Trichlorobenzene	ug/L	1300	ND (0.15) UJ	ND (0.15)	ND (0.15)	ND (3.9)	500	ND (77)
1,2,4-Trichlorobenzene	ug/L	6300	ND (0.27)	ND (0.27)	ND (0.27)	580	1700	ND (140)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (0.14) UJ	ND (0.14)	ND (0.14)	ND (3.5)	ND (3.5)	ND (70)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (0.18)	ND (0.18)	ND (0.18)	ND (4.5)	ND (4.5)	ND (90)
1,2-Dichlorobenzene	ug/L	8300	ND (0.15)	ND (0.15)	ND (0.15)	77	2600	220 J
1,2-Dichloroethane	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (5.3)	ND (5.3)	ND (110)
1,2-Dichloropropane	ug/L	ND	ND (0.095)	ND (0.095)	ND (0.095)	ND (2.4)	ND (2.4)	ND (47)
1,3-Dichlorobenzene	ug/L	1900	ND (0.11)	ND (0.11)	ND (0.11)	540	60	340 J
1,4-Dichlorobenzene	ug/L	3100	ND (0.21)	ND (0.21)	ND (0.21)	530	580	1200
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (0.55)	ND (0.55)	ND (0.55)	ND (14)	ND (14)	ND (270)
2-Hexanone	ug/L	ND	ND (0.16)	ND (0.16)	ND (0.16)	ND (4.0)	ND (4.0)	ND (80)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (0.53)	ND (0.53)	ND (0.53)	ND (13)	ND (13)	ND (260)
Acetone	ug/L	7.4 J	2.9 J	ND (2.5)	ND (2.5)	ND (62)	ND (62)	ND (1200)
Benzene	ug/L	230 J	ND (0.11)	ND (0.11)	ND (0.11)	ND (2.6)	7.0 J	230 J
Bromodichloromethane	ug/L	4.2	ND (0.13)	ND (0.13)	ND (0.13)	ND (3.2)	ND (3.2)	ND (65)
Bromoform	ug/L	ND	ND (0.19) UJ	ND (0.19)	ND (0.19)	ND (4.8)	ND (4.8)	ND (96)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (0.31) UJ	ND (0.31)	ND (0.31)	ND (7.8)	ND (7.8)	ND (160)
Carbon disulfide	ug/L	2.8	ND (0.21)	ND (0.21)	ND (0.21)	ND (5.3)	ND (5.3)	ND (110)
Carbon tetrachloride	ug/L	ND	ND (0.14)	ND (0.14)	ND (0.14)	ND (3.4)	ND (3.4)	ND (68)
Chlorobenzene	ug/L	19000	0.16 J	ND (0.14)	ND (0.14)	640	13000	15000 J
Chloroethane	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.21)	ND (5.4)	ND (5.4)	ND (110)
Chloroform (Trichloromethane)	ug/L	23	ND (0.17)	ND (0.17)	ND (0.17)	ND (4.3)	ND (4.3)	ND (85)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (0.28)	ND (0.28)	ND (0.28)	ND (7.1)	ND (7.1)	ND (140)
cis-1,2-Dichloroethene	ug/L	49	ND (0.24)	ND (0.24)	ND (0.24)	ND (5.9)	ND (5.9)	ND (120)
cis-1,3-Dichloropropene	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.19)	ND (4.7)	ND (4.7)	ND (93)
Cyclohexane	ug/L	9.8	ND (0.25)	ND (0.25)	ND (0.25)	ND (6.4)	ND (6.4)	ND (130)
Dibromochloromethane	ug/L	0.39 J	ND (0.14)	ND (0.14)	ND (0.14)	ND (3.4)	ND (3.4)	ND (68)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (0.19)	ND (0.19) UJ	ND (0.19)	ND (4.8)	ND (4.8)	ND (96)
Ethylbenzene	ug/L	15 J	ND (0.23)	ND (0.23)	ND (0.23)	ND (5.7)	15 J	ND (110)
Isopropylbenzene	ug/L	6.2 J	ND (0.16)	ND (0.16)	ND (0.16)	ND (4.1)	ND (4.1)	ND (82)
Methyl acetate	ug/L	ND	ND (0.14)	ND (0.14)	ND (0.14)	ND (3.4)	ND (3.4)	ND (69)
Methyl cyclohexane	ug/L	54	ND (0.26)	ND (0.26)	ND (0.26)	ND (6.5)	ND (6.5)	ND (130)
Methyl Tert Butyl Ether	ug/L	12 J	ND (0.18)	ND (0.18)	ND (0.18)	ND (4.6)	ND (4.6)	ND (92)
Methylene chloride	ug/L	170 J	ND (0.15)	ND (0.15)	ND (0.15)	9.9 J	12 J	170 J
Styrene	ug/L	ND	ND (0.097)	ND (0.097)	ND (0.097)	ND (2.4)	ND (2.4)	ND (48)
Tetrachloroethene	ug/L	ND	ND (0.15)	ND (0.15)	ND (0.15)	ND (3.7)	ND (3.7)	ND (74)
Toluene	ug/L	6100	ND (0.15)	ND (0.15)	0.24 J	ND (3.8)	6100	ND (75)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (0.17)	ND (0.17)	ND (0.17)	ND (4.2)	ND (4.2)	ND (85)
trans-1,3-Dichloropropene	ug/L	ND	ND (0.15)	ND (0.15)	ND (0.15)	ND (3.7)	ND (3.7)	ND (74)
Trichloroethene	ug/L	480	ND (0.23) U	ND (0.14)	ND (0.14)	ND (3.6)	ND (3.6)	ND (72)
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (0.20)	ND (0.20)	ND (0.20)	ND (5.0)	ND (5.0)	ND (99)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (0.32)	ND (0.32)	ND (0.32)	ND (8.0)	ND (8.0)	ND (160)
Vinyl chloride	ug/L	11	ND (0.23)	ND (0.23)	ND (0.23)	ND (5.7)	ND (5.7)	ND (110)
Xylene (total)	ug/L	36 J	ND (0.49)	ND (0.49)	ND (0.49)	ND (12)	36 J	ND (240)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-30-S*	*MW-31-D*	*MW-31R-S*	*MW-32-I*	*MW-33-S*	*MW-34-I*
Sample ID:			*GW-15620-072209-RW-072*	*GW-15620-070109-RR-035*	*GW-15620-072009-RR-062*	*GW-15620-072309-RW-84*	*GW-15620-072709-RR-091*	*GW-15620-072309-RW-78*
Sample Date:			*7/22/2009*	*7/1/2009*	*7/20/2009*	*7/23/2009*	*7/27/2009*	*7/23/2009*
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.34)	ND (0.36)	ND (0.33)	ND (0.34)	ND (3.6)	ND (0.33)
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.15)	ND (0.16)	ND (0.14)	1.4 J	ND (1.6)	ND (0.14)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.088)	ND (0.094)	ND (0.085)	ND (0.088)	ND (0.94)	ND (0.086)
2,4-Dichlorophenol	ug/L	7.7	ND (0.13)	ND (0.14)	ND (0.13)	5.9	ND (1.4)	2.0
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.078)	ND (0.083)	ND (0.076)	ND (0.078)	ND (0.83)	ND (0.076)
2,4-Dinitrophenol	ug/L	680	ND (6.0)	ND (6.3)	ND (5.8)	ND (6.0)	680	ND (5.8)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)	ND (1.7)	ND (0.16)
2,6-Dinitrotoluene	ug/L	ND	ND (0.19)	ND (0.20)	ND (0.18)	ND (0.19)	ND (2.0)	ND (0.18)
2-Chloronaphthalene	ug/L	20	ND (0.15)	ND (0.16)	ND (0.14)	12	9.4 J	3.6
2-Chlorophenol	ug/L	27 J	ND (0.20)	ND (0.22)	ND (0.20)	ND (0.20)	27 J	R
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)	ND (1.6)	ND (0.15)
2-Methylphenol	ug/L	15 J	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.14)	15 J	ND (0.13)
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)	ND (1.7)	ND (0.16)
2-Nitrophenol	ug/L	2.3 J	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.14)	ND (1.4)	ND (0.13)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.35)	ND (0.37)	ND (0.34)	ND (0.35)	ND (3.7)	ND (0.34)
3-Nitroaniline	ug/L	0.98 J	ND (0.25)	ND (0.27)	ND (0.24)	ND (0.25)	ND (2.7)	ND (0.25)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.6)	ND (8.0)	ND (7.3)	ND (7.6)	ND (80)	ND (7.4)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.18)	ND (1.9)	ND (0.18)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.25)	ND (0.26)	ND (0.24)	ND (0.25)	ND (2.6)	ND (0.24)
4-Chloroaniline	ug/L	4.2 J	ND (1.1)	ND (1.1)	ND (1.0)	ND (1.1)	ND (11)	3.9 J
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.10)	ND (0.11)	ND (0.098)	ND (0.10)	ND (1.1)	ND (0.099)
4-Methylphenol	ug/L	16 J	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)	16 J	ND (0.17)
4-Nitroaniline	ug/L	0.80 J	ND (0.22)	ND (0.23)	ND (0.21)	ND (0.22)	ND (2.3)	ND (0.22)
4-Nitrophenol	ug/L	ND	ND (6.8)	ND (7.2)	ND (6.6)	ND (6.8)	ND (72)	ND (6.7)
Acenaphthene	ug/L	1.5 J	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)	ND (1.5)	ND (0.14)
Acenaphthylene	ug/L	0.80 J	ND (0.082)	ND (0.087)	ND (0.080)	ND (0.082)	ND (0.87)	ND (0.080)
Acetophenone	ug/L	ND	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.21)	ND (2.3)	ND (0.21)
Aniline	ug/L	2900	ND (0.40)	ND (0.42)	ND (0.38)	ND (0.40)	2900	210
Anthracene	ug/L	ND	ND (1.0)	ND (1.1)	ND (0.98)	ND (1.0)	ND (11)	ND (0.99)
Atrazine	ug/L	ND	ND (0.20)	ND (0.21)	ND (0.19)	ND (0.20)	ND (2.1)	ND (0.19)
Benzaldehyde	ug/L	9.2 J	ND (0.49)	ND (0.52)	ND (0.47)	ND (0.49)	ND (5.2)	ND (0.48)
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)	ND (1.8)	ND (0.17)
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)	ND (1.2)	ND (0.11)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.16)	ND (1.7)	ND (0.15)
Benzo(g,h,i)perylene	ug/L	7	ND (0.084)	ND (0.089)	ND (0.081)	ND (0.084)	ND (0.89)	ND (0.082)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.16)	ND (1.7)	ND (0.16)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.15)	ND (1.6)	0.20 J
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (1.4)	ND (0.13)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.26)	ND (0.27)	ND (0.25)	ND (0.26)	ND (2.7)	ND (0.25)
bis(2-Ethylhexyl)phthalate	ug/L	14	ND (0.45)	ND (0.48)	ND (0.43)	ND (0.45)	ND (4.8)	4.3 J
Butyl benzylphthalate	ug/L	ND	ND (3.0)	ND (3.2)	ND (2.9)	ND (3.0)	ND (32)	ND (2.9)
Caprolactam	ug/L	36 J	ND (7.0)	ND (7.4)	7.7 J	ND (7.0)	ND (74)	ND (6.9)
Carbazole	ug/L	1.0 J	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (1.4)	ND (0.13)
Chrysene	ug/L	4.3	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.10)	ND (1.1)	ND (0.10)
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	ND (0.13)	ND (0.12)	ND (0.12)	ND (1.3)	ND (0.12)
Dibenzofuran	ug/L	0.92 J	ND (0.18)	ND (0.19)	ND (0.17)	ND (0.18)	ND (1.9)	ND (0.18)
Diethyl phthalate	ug/L	30	1.2 J	ND (0.46)	24	ND (0.44)	ND (4.6)	ND (0.43)
Dimethyl phthalate	ug/L	ND	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.14)	ND (1.4)	ND (0.13)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.29)	ND (0.31)	ND (0.28)	ND (0.29)	ND (3.1)	ND (0.28)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-30-S*	*MW-31-D*	*MW-31R-S*	*MW-32-I*	*MW-33-S*	*MW-34-I*
Sample ID:			*GW-15620-072209-RW-072*	*GW-15620-070109-RR-035*	*GW-15620-072009-RR-062*	*GW-15620-072309-RW-84*	*GW-15620-072709-RR-091*	*GW-15620-072309-RW-78*
Sample Date:			*7/22/2009*	*7/1/2009*	*7/20/2009*	*7/23/2009*	*7/27/2009*	*7/23/2009*
Parameter	***Units***	***Max***						
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)	ND (1.6)	ND (0.15)
Fluoranthene	ug/L	1.1 J	ND (0.097)	ND (0.10)	ND (0.094)	ND (0.097)	ND (1.0)	ND (0.095)
Fluorene	ug/L	0.95 J	ND (0.096)	ND (0.10)	ND (0.093)	ND (0.096)	ND (1.0)	ND (0.094)
Hexachlorobenzene	ug/L	0.89 J	ND (0.18)	ND (0.19)	ND (0.17)	ND (0.18)	ND (1.9)	ND (0.17)
Hexachlorobutadiene	ug/L	ND	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.12)	ND (1.3)	ND (0.12)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)	ND (1.2)	ND (0.11)
Hexachloroethane	ug/L	ND	ND (0.074)	ND (0.079)	ND (0.072)	ND (0.074)	ND (0.79)	ND (0.073)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.16)	ND (1.7)	ND (0.15)
Isophorone	ug/L	0.93 J	ND (0.28)	ND (0.30)	ND (0.27)	ND (0.28)	ND (3.0)	ND (0.27)
Naphthalene	ug/L	2200	ND (0.27)	ND (0.29)	ND (0.26)	ND (0.27)	2200	12
Nitrobenzene	ug/L	15000	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	15000	430
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.37)	ND (0.40)	ND (0.36)	ND (0.37)	ND (4.0)	ND (0.37)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.47)	ND (0.50)	ND (0.46)	ND (0.47)	ND (5.0)	ND (0.46)
Pentachlorophenol	ug/L	ND	ND (1.8)	ND (1.9)	ND (1.8)	ND (1.8)	ND (19)	ND (1.8)
Phenanthrene	ug/L	1.2 J	ND (0.28)	ND (0.29)	ND (0.27)	ND (0.28)	ND (2.9)	ND (0.27)
Phenol	ug/L	0.83 J	ND (0.23)	ND (0.24)	ND (0.22)	ND (0.23)	ND (2.4)	ND (0.22) UJ
Pyrene	ug/L	1.4 J	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (1.1)	ND (0.11)
Metals								
Aluminum	ug/L	3440	164 J	ND (37.5) U	776	10.4 J	2750	ND (293) U
Aluminum (Dissolved)	ug/L	1170	ND (40.9) U	ND (27.7) U	ND (9.7)	ND (9.7)	1000	17.4 J
Antimony	ug/L	2.3 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	1.6 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	ug/L	436	9.1 J	11.5	17.9	128	436	26.8
Arsenic (Dissolved)	ug/L	448	8.0 J	11.7	13.5	97.3	448	28.2
Barium	ug/L	626	13.4 J	16.5 J	24.0 J	17.3 J	36.6 J	70.3 J
Barium (Dissolved)	ug/L	679	12.5 J	17.0 J	17.6 J	16.8 J	38.4 J	73.0 J
Beryllium	ug/L	ND	ND (0.34) U	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.73) U	ND (0.23)
Beryllium (Dissolved)	ug/L	ND	ND (0.41) U	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.57) U	ND (0.23)
Cadmium	ug/L	8.3	ND (0.13)	ND (0.13)	ND (0.15) U	ND (0.13)	ND (0.74) U	ND (0.41) U
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.67) U	0.18 J
Calcium	ug/L	219000	12900	32300	30200	23000	6800	27300
Calcium (Dissolved)	ug/L	226000	13800	33100	30000	23200	6900	28300
Chromium	ug/L	90.6	ND (0.65) U	ND (0.57)	ND (1.6) U	ND (0.57)	20.7	ND (0.57)
Chromium Total (Dissolved)	ug/L	17.4	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	17.4	ND (0.57)
Cobalt	ug/L	113	2.1 J	ND (0.40)	1.2 J	ND (0.40)	17.4 J	12.4 J
Cobalt (Dissolved)	ug/L	108	2.1 J	ND (0.40)	0.97 J	ND (0.40)	18.6 J	13.1 J
Copper	ug/L	294	ND (2.7)	ND (2.7)	5.7 J	ND (2.7)	173	28.3
Copper (Dissolved)	ug/L	54.6	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	9.7 J	ND (2.7)
Iron	ug/L	94400	15000	2440	1200	9820	94400	47400
Iron (Dissolved)	ug/L	97700	12800	2460	90.6 J	9020	97700	48600
Lead	ug/L	70.9	2.2 J	ND (1.3)	ND (1.3)	ND (1.3)	37.8	ND (1.3)
Lead (Dissolved)	ug/L	41.2	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	2.2 J	ND (1.3)
Magnesium	ug/L	265000	1070 J	3950 J	5640	5140	2660 J	8370
Magnesium (Dissolved)	ug/L	261000	1100 J	4060 J	5460	5180	2800 J	8710
Manganese	ug/L	14300	515	1160	1240	1210	1120	2950
Manganese (Dissolved)	ug/L	14100	469	1190	1210	1200	1180	3040
Mercury	ug/L	6.9	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	0.22	0.22
Mercury (Dissolved)	ug/L	0.38	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	0.16 J	0.11 J
Nickel	ug/L	148	1.6 J	1.8 J	2.1 J	ND (1.6)	12.4 J	2.9 J

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-30-S*	*MW-31-D*	*MW-31R-S*	*MW-32-I*	*MW-33-S*	*MW-34-I*
Sample ID:			*GW-15620-072209-RW-072*	*GW-15620-070109-RR-035*	*GW-15620-072009-RR-062*	*GW-15620-072309-RW-84*	*GW-15620-072709-RR-091*	*GW-15620-072309-RW-78*
Sample Date:			*7/22/2009*	*7/1/2009*	*7/20/2009*	*7/23/2009*	*7/27/2009*	*7/23/2009*
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	13.4 J	2.4 J
Potassium	ug/L	121000	2540 J	903 J	1490 J	1640 J	3290 J	3900 J
Potassium (Dissolved)	ug/L	118000 J	2450 J	940 J	1270 J	1600 J	3240 J	3980 J
Selenium	ug/L	3.6 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	ug/L	5.5	0.79 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Silver (Dissolved)	ug/L	3.2 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	2900 J	10200	14400	13000	25400	60200
Sodium (Dissolved)	ug/L	2250000	2990 J	10400	14100	12600	26500	63100
Thallium	ug/L	6.1 J	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	2.7 J	6.1 J
Thallium (Dissolved)	ug/L	6.1 J	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	4.8 J	5.2 J
Vanadium	ug/L	28.8 J	ND (1.9)	ND (1.9)	2.9 J	ND (1.9)	3.0 J	ND (1.9)
Vanadium (Dissolved)	ug/L	29.2 J	2.1 J	ND (1.9)	ND (1.9)	ND (1.9)	2.6 J	ND (1.9)
Zinc	ug/L	254	ND (18.3) U	42.4	ND (16.4) U	ND (2.5)	ND (150) U	5.9 J
Zinc (Dissolved)	ug/L	170	ND (14.0) U	4.7 J	ND (12.0) U	ND (2.5)	141	ND (2.5)
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.0018)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0022)	ND (0.0022)	ND (0.0022)	0.046	ND (0.0022)	ND (0.0022)
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0022)	ND (0.0022)	ND (0.0022)	0.056	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
Gases								
Carbon dioxide	ug/L	160000	26000	6500	3400	9200	77000	39000
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	41.1	91.5	78.1	79.3	26.3	125
Ammonia	mg/L	11.1	ND (0.39) U	0.068 J	0.14	0.44	11.1	4.0
Chloride	mg/L	3900	1.2	21.0	21.7	13.0 J	34.5	91.8 J
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	3.0	2.3	ND (1.2) U	ND (1.9) U	29.0	5.5
Nitrate (as N)	mg/L	6.5	ND (0.0077)	ND (0.0077)	ND (0.0077)	ND (0.0077)	ND (0.0077)	ND (0.0077)
Nitrite (as N)	mg/L	1.5	ND (0.0032)	ND (0.0032)	ND (0.0032)	ND (0.0032)	0.038 J	0.10
Sulfate	mg/L	601	4.5	4.0	30.0	12.3	153	18.2

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-35-S*	*MW-36-S*	*MW-37-I*	*MW-37-I*	*MW-37-S*	*MW-37-S*
Sample ID:			*GW-15620-071009-RR-059*	*GW-15620-072309-RW-82*	*GW-15620-062409-RR-027*	*GW-15620-100609-SD-002*	*GW-15620-072309-RW-86*	*GW-15620-100609-SD-001*
Sample Date:			*7/10/2009*	*7/23/2009*	*6/24/2009*	*10/6/2009*	*7/23/2009*	*10/6/2009*
Parameter	*Units*	*Max*						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (7.2)	ND (0.29)	ND (14)	ND (14)	ND (14)	ND (29)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (5.0)	ND (0.20)	ND (10)	ND (10)	ND (10)	ND (20)
1,1,2-Trichloroethane	ug/L	ND	ND (5.0)	ND (0.20)	ND (10)	ND (10)	ND (10)	ND (20)
1,1-Dichloroethane	ug/L	0.52 J	ND (2.9)	ND (0.12)	ND (5.8)	ND (5.8)	ND (5.8)	ND (12)
1,1-Dichloroethene	ug/L	ND	ND (7.4)	ND (0.30)	ND (15)	ND (15)	ND (15)	ND (30)
1,2,3-Trichlorobenzene	ug/L	1300	130	ND (0.15)	ND (7.7)	ND (7.7)	ND (7.7)	ND (15)
1,2,4-Trichlorobenzene	ug/L	6300	370	ND (0.27)	57	61	40 J	36 J
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (3.5)	ND (0.14)	ND (7.0)	ND (7.0)	ND (7.0)	ND (14)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (4.5)	ND (0.18)	ND (9.0)	ND (9.0)	ND (9.0)	ND (18)
1,2-Dichlorobenzene	ug/L	8300	170	ND (0.15)	240	320	68	130
1,2-Dichloroethane	ug/L	ND	ND (5.3)	ND (0.21)	ND (11)	ND (11)	ND (11)	ND (21)
1,2-Dichloropropane	ug/L	ND	ND (2.4)	ND (0.095)	ND (4.7)	ND (4.7)	ND (4.7)	ND (9.5)
1,3-Dichlorobenzene	ug/L	1900	19 J	0.14 J	330	460	9.1 J	ND (11)
1,4-Dichlorobenzene	ug/L	3100	71	0.46 J	1000	1400	31 J	44 J
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (14)	ND (0.55)	ND (27) UJ	ND (27)	ND (27)	ND (55)
2-Hexanone	ug/L	ND	ND (4.0)	ND (0.16)	ND (8.0) UJ	ND (8.0)	ND (8.0)	ND (16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (13)	ND (0.53)	ND (26) UJ	ND (26)	ND (26)	ND (53)
Acetone	ug/L	7.4 J	ND (62)	ND (2.5)	ND (120)	ND (120)	ND (120)	ND (250)
Benzene	ug/L	230 J	ND (2.6)	ND (0.11)	ND (5.3)	ND (5.3)	11 J	26 J
Bromodichloromethane	ug/L	4.2	ND (3.2)	ND (0.13)	ND (6.5)	ND (6.5)	ND (6.5)	ND (13)
Bromoform	ug/L	ND	ND (4.8) UJ	ND (0.19)	ND (9.6)	ND (9.6)	ND (9.6)	ND (19)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (7.8)	ND (0.31)	ND (16)	ND (16)	ND (16)	ND (31)
Carbon disulfide	ug/L	2.8	ND (5.3)	ND (0.21)	ND (11)	ND (11)	ND (11)	ND (21)
Carbon tetrachloride	ug/L	ND	ND (3.4)	ND (0.14)	ND (6.8)	ND (6.8)	ND (6.8)	ND (14)
Chlorobenzene	ug/L	19000	430	3.3	260	390	1100	1800
Chloroethane	ug/L	ND	ND (5.4)	ND (0.21)	ND (11)	ND (11)	ND (11)	ND (21)
Chloroform (Trichloromethane)	ug/L	23	ND (4.3)	ND (0.17)	ND (8.5)	ND (8.5)	ND (8.5)	ND (17)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (7.1)	ND (0.28)	ND (14)	ND (14)	ND (14)	ND (28)
cis-1,2-Dichloroethene	ug/L	49	ND (5.9)	ND (0.24)	ND (12)	ND (12)	ND (12)	ND (24)
cis-1,3-Dichloropropene	ug/L	ND	ND (4.7)	ND (0.19)	ND (9.3)	ND (9.3)	ND (9.3)	ND (19)
Cyclohexane	ug/L	9.8	ND (6.4)	ND (0.25)	ND (13) UJ	ND (13)	ND (13)	ND (25)
Dibromochloromethane	ug/L	0.39 J	ND (3.4)	ND (0.14)	ND (6.8)	ND (6.8)	ND (6.8)	ND (14)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (4.8) UJ	ND (0.19)	ND (9.6)	ND (9.6)	ND (9.6)	ND (19)
Ethylbenzene	ug/L	15 J	ND (5.7)	ND (0.23)	ND (11)	ND (11)	ND (11)	ND (23)
Isopropylbenzene	ug/L	6.2 J	ND (4.1)	ND (0.16)	ND (8.2)	ND (8.2)	ND (8.2)	ND (16)
Methyl acetate	ug/L	ND	ND (3.4)	ND (0.14)	ND (6.9)	ND (6.9)	ND (6.9)	ND (14)
Methyl cyclohexane	ug/L	54	ND (6.5)	ND (0.26)	ND (13)	ND (13)	ND (13)	ND (26)
Methyl Tert Butyl Ether	ug/L	12 J	ND (4.6)	0.49 J	ND (9.2)	ND (9.2)	ND (9.2)	ND (18)
Methylene chloride	ug/L	170 J	ND (3.7)	ND (0.15)	11 J	ND (7.5)	ND (7.5)	ND (15)
Styrene	ug/L	ND	ND (2.4)	ND (0.097)	ND (4.8)	ND (4.8)	ND (4.8)	ND (9.7)
Tetrachloroethene	ug/L	ND	ND (3.7) UJ	ND (0.15)	ND (7.4)	ND (7.4)	ND (7.4)	ND (15)
Toluene	ug/L	6100	390	0.22 J	ND (7.5)	ND (7.5)	40 J	53 J
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (4.2)	ND (0.17)	ND (8.5)	ND (8.5)	ND (8.5)	ND (17)
trans-1,3-Dichloropropene	ug/L	ND	ND (3.7)	ND (0.15)	ND (7.4)	ND (7.4)	ND (7.4)	ND (15)
Trichloroethene	ug/L	480	ND (3.6)	ND (0.14)	ND (7.2)	ND (7.2)	ND (7.2)	ND (14)
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (5.0)	ND (0.20)	ND (9.9)	ND (9.9)	ND (9.9)	ND (20)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (8.0)	ND (0.32)	ND (16)	ND (16)	ND (16)	ND (32)
Vinyl chloride	ug/L	11	ND (5.7)	ND (0.23)	ND (11)	ND (11)	ND (11)	ND (23)
Xylene (total)	ug/L	36 J	ND (12)	ND (0.49)	ND (24)	ND (24)	ND (24)	ND (49)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-35-S*	*MW-36-S*	*MW-37-I*	*MW-37-I*	*MW-37-S*	*MW-37-S*
Sample ID:			*GW-15620-071009-RR-059*	*GW-15620-072309-RW-82*	*GW-15620-062409-RR-027*	*GW-15620-100609-SD-002*	*GW-15620-072309-RW-86*	*GW-15620-100609-SD-001*
Sample Date:			*7/10/2009*	*7/23/2009*	*6/24/2009*	*10/6/2009*	*7/23/2009*	*10/6/2009*
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.33)	ND (0.33)	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.33)
2,4,5-Trichlorophenol	ug/L	4.6 J	2.1 J	ND (0.14)	ND (0.16)	ND (0.14)	ND (0.14)	ND (0.14)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.085)	ND (0.085)	ND (0.094)	ND (0.085)	ND (0.085)	ND (0.086)
2,4-Dichlorophenol	ug/L	7.7	1.8 J	ND (0.13)	ND (0.14)	0.49	ND (0.13)	ND (0.13)
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.076)	ND (0.076)	ND (0.083)	ND (0.076)	ND (0.076)	ND (0.076)
2,4-Dinitrophenol	ug/L	680	ND (5.8)	ND (5.8)	ND (6.3)	ND (5.8)	ND (5.8)	ND (5.8)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	ug/L	ND	ND (0.18)	ND (0.18)	ND (0.20)	ND (0.18)	ND (0.18)	ND (0.18)
2-Chloronaphthalene	ug/L	20	2.6	ND (0.14)	ND (0.16)	ND (0.14)	ND (0.14)	ND (0.14)
2-Chlorophenol	ug/L	27 J	1.2 J	ND (0.20)	ND (0.22)	ND (0.20)	22	4.9 J
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)
2-Methylphenol	ug/L	15 J	2.7 J	ND (0.13)	ND (0.14)	ND (0.13)	0.84 J	ND (0.13)
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.16)
2-Nitrophenol	ug/L	2.3 J	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	2.3 J	1.0 J
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.34)	ND (0.34)	ND (0.37)	ND (0.34)	ND (0.34)	ND (0.34)
3-Nitroaniline	ug/L	0.98 J	ND (0.24)	ND (0.24)	ND (0.27)	ND (0.24)	ND (0.24)	ND (0.25)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.3)	ND (7.3)	ND (8.0)	ND (7.3)	ND (7.3)	ND (7.4)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.18)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.24)	ND (0.24)	ND (0.26)	ND (0.24)	ND (0.24)	ND (0.24)
4-Chloroaniline	ug/L	4.2 J	ND (1.0)	ND (1.0)	ND (1.1)	ND (1.0)	ND (1.0)	ND (1.0)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.098)	ND (0.098)	ND (0.11)	ND (0.098)	ND (0.098)	ND (0.099)
4-Methylphenol	ug/L	16 J	4.6 J	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)
4-Nitroaniline	ug/L	0.80 J	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.21)	ND (0.22)
4-Nitrophenol	ug/L	ND	ND (6.6)	ND (6.6)	ND (7.2)	ND (6.6)	ND (6.6)	ND (6.7)
Acenaphthene	ug/L	1.5 J	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.14)
Acenaphthylene	ug/L	0.80 J	ND (0.080)	ND (0.080)	ND (0.087)	ND (0.080)	ND (0.080)	ND (0.080)
Acetophenone	ug/L	ND	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.21)	ND (0.21)
Aniline	ug/L	2900	140	ND (0.38)	ND (0.42)	ND (0.38)	160	1000
Anthracene	ug/L	ND	ND (0.98)	ND (0.98)	ND (1.1)	ND (0.98)	ND (0.98)	ND (0.99)
Atrazine	ug/L	ND	ND (0.19)	ND (0.19)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.19)
Benzaldehyde	ug/L	9.2 J	9.2 J	ND (0.47)	ND (0.52)	ND (0.47)	ND (0.47)	ND (0.48)
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.15)	ND (0.15)
Benzo(g,h,i)perylene	ug/L	7	ND (0.081)	ND (0.081)	ND (0.089)	ND (0.081)	ND (0.081)	ND (0.082)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.15)	ND (0.16)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.14)	ND (0.14)	ND (0.15)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.25)	ND (0.25)	ND (0.27)	ND (0.25)	ND (0.25)	ND (0.25)
bis(2-Ethylhexyl)phthalate	ug/L	14	ND (0.43)	3.6 J	ND (0.48)	ND (0.43)	ND (0.43)	ND (0.44)
Butyl benzylphthalate	ug/L	ND	ND (2.9)	ND (2.9)	ND (3.2)	ND (2.9)	ND (2.9)	ND (2.9)
Caprolactam	ug/L	36 J	ND (6.8)	9.9 J	ND (7.4)	ND (6.8)	ND (6.8)	ND (6.9)
Carbazole	ug/L	1.0 J	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)
Chrysene	ug/L	4.3	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.10)
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.12)
Dibenzofuran	ug/L	0.92 J	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.18)
Diethyl phthalate	ug/L	30	ND (0.42)	1.1 J	ND (0.46)	ND (0.42)	ND (0.42)	ND (0.43)
Dimethyl phthalate	ug/L	ND	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.28)	2.0 J	ND (0.31)	ND (0.28)	ND (0.28)	ND (0.28)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-35-S*	*MW-36-S*	*MW-37-I*	*MW-37-I*	*MW-37-S*	*MW-37-S*
Sample ID:			*GW-15620-071009-RR-059*	*GW-15620-072309-RW-82*	*GW-15620-062409-RR-027*	*GW-15620-100609-SD-002*	*GW-15620-072309-RW-86*	*GW-15620-100609-SD-001*
Sample Date:			*7/10/2009*	*7/23/2009*	*6/24/2009*	*10/6/2009*	*7/23/2009*	*10/6/2009*
Parameter	***Units***	***Max***						
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)
Fluoranthene	ug/L	1.1 J	ND (0.094)	ND (0.094)	ND (0.10)	ND (0.094)	ND (0.094)	ND (0.095)
Fluorene	ug/L	0.95 J	ND (0.093)	ND (0.093)	ND (0.10)	ND (0.093)	ND (0.093)	ND (0.094)
Hexachlorobenzene	ug/L	0.89 J	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)
Hexachlorobutadiene	ug/L	ND	ND (0.11)	ND (0.11)	ND (0.13)	ND (0.11)	ND (0.11)	ND (0.12)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)
Hexachloroethane	ug/L	ND	ND (0.072)	ND (0.072)	ND (0.079)	ND (0.072)	ND (0.072)	ND (0.073)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.15)	ND (0.15)
Isophorone	ug/L	0.93 J	ND (0.27)	ND (0.27)	ND (0.30)	ND (0.27)	ND (0.27)	ND (0.27)
Naphthalene	ug/L	2200	99	ND (0.26)	3.3	3.6	0.35 J	ND (0.26)
Nitrobenzene	ug/L	15000	ND (0.17)	ND (0.17)	76	14	6100	8000
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.36)	ND (0.36)	ND (0.40)	ND (0.36)	ND (0.36)	ND (0.37)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.46)	ND (0.46)	ND (0.50)	ND (0.46)	ND (0.46)	ND (0.46)
Pentachlorophenol	ug/L	ND	ND (1.8)	ND (1.8)	ND (1.9)	ND (1.8)	ND (1.8)	ND (1.8)
Phenanthrene	ug/L	1.2 J	ND (0.27)	ND (0.27)	ND (0.29)	ND (0.27)	ND (0.27)	ND (0.27)
Phenol	ug/L	0.83 J	ND (0.22)	ND (0.22)	ND (0.24)	ND (0.22)	ND (0.22)	ND (0.22)
Pyrene	ug/L	1.4 J	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.11)
Metals								
Aluminum	ug/L	3440	2680	ND (9.7)	ND (9.7)	41.2	51.5 J	88.1
Aluminum (Dissolved)	ug/L	1170	570	ND (9.7)	ND (9.7)	ND (9.7)	ND (9.7)	13.7
Antimony	ug/L	2.3 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	ug/L	436	7.7 J	ND (2.7)	8.2 J	11.2	4.7 J	ND (2.7)
Arsenic (Dissolved)	ug/L	448	5.4 J	ND (2.7)	9.0 J	13.1	ND (2.7)	ND (2.7)
Barium	ug/L	626	41.3 J	2.1 J	6.5 J	6.8	49.7 J	32.0
Barium (Dissolved)	ug/L	679	41.0 J	1.6 J	6.6 J	7.0	45.3 J	31.9
Beryllium	ug/L	ND	ND (2.8) U	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	ug/L	ND	ND (1.9) U	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Cadmium	ug/L	8.3	0.50 J	0.20 J	ND (0.13)	ND (0.13)	0.15 J	ND (0.13)
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	ND (0.16) U	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	ug/L	219000	7270	8890	13000	13800	34100	27800
Calcium (Dissolved)	ug/L	226000	8250	7980	13500	14700	33200	30200
Chromium	ug/L	90.6	4.2 J	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)
Chromium Total (Dissolved)	ug/L	17.4	2.7 J	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)
Cobalt	ug/L	113	113	ND (0.40)	11.9 J	10.6	19.6 J	17.0
Cobalt (Dissolved)	ug/L	108	108	ND (0.40)	12.6 J	11.0	18.9 J	19.6
Copper	ug/L	294	294	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	3.0
Copper (Dissolved)	ug/L	54.6	17.8 J	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Iron	ug/L	94400	21600	45200	4040	4420	617	1030
Iron (Dissolved)	ug/L	97700	21700	34600	4190	3970	280	324
Lead	ug/L	70.9	5.0	ND (1.3)	ND (1.3)	ND (1.3)	1.9 J	ND (1.3)
Lead (Dissolved)	ug/L	41.2	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	1.4 J	ND (1.3)
Magnesium	ug/L	265000	2130 J	2430 J	2410 J	2460	13800	10700
Magnesium (Dissolved)	ug/L	261000	2510 J	2130 J	2540 J	2600	13100	11400
Manganese	ug/L	14300	2400	580	4030	4020	2210	1170
Manganese (Dissolved)	ug/L	14100	2820	476	4190	4210	2160	1290
Mercury	ug/L	6.9	6.9	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Mercury (Dissolved)	ug/L	0.38	0.38	0.042 J	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	ug/L	148	41.0	2.1 J	1.6 J	ND (1.6)	9.5 J	6.1

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-35-S*	*MW-36-S*	*MW-37-I*	*MW-37-I*	*MW-37-S*	*MW-37-S*
Sample ID:			*GW-15620-071009-RR-059*	*GW-15620-072309-RW-82*	*GW-15620-062409-RR-027*	*GW-15620-100609-SD-002*	*GW-15620-072309-RW-86*	*GW-15620-100609-SD-001*
Sample Date:			*7/10/2009*	*7/23/2009*	*6/24/2009*	*10/6/2009*	*7/23/2009*	*10/6/2009*
Parameter	***Units***	***Max***						
Nickel (Dissolved)	ug/L	88.5	38.8 J	1.7 J	1.6 J	ND (1.6)	8.2 J	6.6
Potassium	ug/L	121000	3280 J	3300 J	1230 J	1490	2710 J	1990
Potassium (Dissolved)	ug/L	118000 J	3730 J	3060 J	1370 J	1720	1960 J	2150
Selenium	ug/L	3.6 J	ND (3.0)	ND (3.0)	ND (3.0) UJ	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	ND (3.0)	ND (3.0) UJ	ND (3.0)	ND (3.0)	ND (3.0)
Silver	ug/L	5.5	ND (0.68)	ND (0.68)	ND (0.68)	0.71	ND (0.68)	ND (0.68)
Silver (Dissolved)	ug/L	3.2 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	7290	8120	7940	8530	64000	46900
Sodium (Dissolved)	ug/L	2250000	8410	7030	8210	9080	63300	51900
Thallium	ug/L	6.1 J	ND (5.0) U	ND (2.4)	4.7 J	ND (2.4)	2.7 J	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	4.8 J	ND (2.4)	5.6 J	ND (2.4)	2.9 J	ND (2.4)
Vanadium	ug/L	28.8 J	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	ug/L	29.2 J	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	ug/L	254	254	11.4 J	5.3 J	ND (2.5)	6.9 J	7.0
Zinc (Dissolved)	ug/L	170	170	ND (2.5)	10.9 J	3.5	15.5 J	10.3
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0025)	ND (0.0024)	ND (0.0025)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0025)	ND (0.0024)	ND (0.0025)	ND (0.0023)	ND (0.0024)	ND (0.0024)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0028)	ND (0.0028)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	ND (0.0019)	ND (0.0018)	ND (0.0019)	ND (0.0017)	ND (0.0018)	ND (0.0018)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0023)	0.012	ND (0.0023)	ND (0.0021)	ND (0.0022)	ND (0.0022)
Aroclor-1254 (PCB-1254)	ug/L	0.3	0.30	ND (0.0022)	ND (0.0023)	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0014)	ND (0.0013)	ND (0.0014)	ND (0.0013)	ND (0.0013)	0.080
Gases								
Carbon dioxide	ug/L	160000	41000	32000	11000	12000	52000	43000
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	6.9	42.2	42.6	49.1 J	89.8	ND (0.41)
Ammonia	mg/L	11.1	3.1	2.1	0.71	0.76	0.68	0.71
Chloride	mg/L	3900	9.9	5.1 J	8.7	9.4	130 J	91.3
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	7.7	3.6	1.7	2.3	9.1	10.6
Nitrate (as N)	mg/L	6.5	0.14	0.71	ND (0.0077)	ND (0.0077)	ND (0.0077)	ND (0.0077)
Nitrite (as N)	mg/L	1.5	0.17	ND (0.0032)	ND (0.0032)	ND (0.0032)	0.13	ND (0.0032)
Sulfate	mg/L	601	70.2	8.8	17.8	19.3	26.7	99.3

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-38-I*	*MW-38-I*	*MW-38-I*	*MW-38-S*	*MW-39-I*	*MW-39-S*
Sample ID:			*GW-15620-070709-DS-024*	*GW-15620-070709-DS-026*	*GW-15620-072009-RW-26*	*GW-15620-070709-DS-028*	*GW-15620-070709-RR-041*	*GW-15620-070709-RR-043*
Sample Date:			*7/7/2009*	*7/7/2009*	*7/20/2009*	*7/7/2009*	*7/7/2009*	*7/7/2009*
				Duplicate	*Field Replicate*			
Parameter	*Units*	*Max*						
Volatiles								
1,1,1-Trichloroethane	ug/L	ND	ND (0.29)	ND (0.29)	-	ND (0.29)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (0.20)	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	ug/L	ND	ND (0.20)	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	ug/L	0.52 J	ND (0.12)	ND (0.12)	-	ND (0.12)	ND (0.12)	ND (0.12)
1,1-Dichloroethene	ug/L	ND	ND (0.30)	ND (0.30)	-	ND (0.30)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	ug/L	1300	0.23 J	0.21 J	-	0.33 J	ND (0.15)	ND (0.15)
1,2,4-Trichlorobenzene	ug/L	6300	0.62 J	0.73 J	-	1.0	0.33 J	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (0.14)	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (0.18)	ND (0.18)	-	ND (0.18)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	ug/L	8300	0.34 J	0.40 J	-	1.8	1.2	ND (0.15)
1,2-Dichloroethane	ug/L	ND	ND (0.21)	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	ug/L	ND	ND (0.095)	ND (0.095)	-	ND (0.095)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	ug/L	1900	0.44 J	0.40 J	-	0.58 J	0.46 J	ND (0.11)
1,4-Dichlorobenzene	ug/L	3100	1.4	1.6	-	1.7	1.4	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (0.55)	ND (0.55)	-	ND (0.55)	ND (0.55)	ND (0.55)
2-Hexanone	ug/L	ND	ND (0.16)	ND (0.16)	-	ND (0.16)	ND (0.16)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (0.53)	ND (0.53)	-	ND (0.53)	ND (0.53)	ND (0.53)
Acetone	ug/L	7.4 J	ND (2.5)	ND (2.5)	-	ND (2.5)	ND (2.5)	ND (2.5)
Benzene	ug/L	230 J	ND (0.11)	ND (0.11)	-	0.31 J	ND (0.11)	ND (0.11)
Bromodichloromethane	ug/L	4.2	0.19 J	0.18 J	-	ND (0.13)	1.9	ND (0.13)
Bromoform	ug/L	ND	ND (0.19)	ND (0.19)	-	ND (0.19)	ND (0.19) UJ	ND (0.19)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (0.31)	ND (0.31)	-	ND (0.31)	ND (0.31)	ND (0.31)
Carbon disulfide	ug/L	2.8	ND (0.21)	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)
Carbon tetrachloride	ug/L	ND	ND (0.14)	ND (0.14)	-	ND (0.14)	ND (0.14) UJ	ND (0.14)
Chlorobenzene	ug/L	19000	0.25 J	0.27 J	-	6.5	8.7	0.54 J
Chloroethane	ug/L	ND	ND (0.21)	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	ug/L	23	1.5	1.5	-	ND (0.17)	12	ND (0.17)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (0.28)	ND (0.28)	-	ND (0.28)	ND (0.28)	ND (0.28)
cis-1,2-Dichloroethene	ug/L	49	ND (0.24)	ND (0.24)	-	ND (0.24)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	ug/L	ND	ND (0.19)	ND (0.19)	-	ND (0.19)	ND (0.19)	ND (0.19)
Cyclohexane	ug/L	9.8	ND (0.25)	ND (0.25)	-	ND (0.25)	ND (0.25)	ND (0.25)
Dibromochloromethane	ug/L	0.39 J	ND (0.14)	ND (0.14)	-	ND (0.14)	0.26 J	ND (0.14)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (0.19)	ND (0.19)	-	ND (0.19)	ND (0.19)	ND (0.19)
Ethylbenzene	ug/L	15 J	ND (0.23)	ND (0.23)	-	ND (0.23)	ND (0.23)	ND (0.23)
Isopropylbenzene	ug/L	6.2 J	ND (0.16)	ND (0.16)	-	ND (0.16)	ND (0.16)	ND (0.16)
Methyl acetate	ug/L	ND	ND (0.14)	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.14)
Methyl cyclohexane	ug/L	54	ND (0.26)	ND (0.26)	-	ND (0.26)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	ug/L	12 J	0.28 J	0.29 J	-	ND (0.18)	0.42 J	ND (0.18)
Methylene chloride	ug/L	170 J	ND (0.15)	ND (0.15)	-	ND (0.15)	1.1	ND (0.15)
Styrene	ug/L	ND	ND (0.097)	ND (0.097)	-	ND (0.097)	ND (0.097)	ND (0.097)
Tetrachloroethene	ug/L	ND	ND (0.15)	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)
Toluene	ug/L	6100	ND (0.15)	ND (0.15)	-	ND (0.15)	0.19 J	ND (0.15)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (0.17)	ND (0.17)	-	ND (0.17)	ND (0.17)	ND (0.17)
trans-1,3-Dichloropropene	ug/L	ND	ND (0.15)	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)
Trichloroethene	ug/L	480	ND (0.14)	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (0.20)	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (0.32)	ND (0.32)	-	ND (0.32)	ND (0.32)	ND (0.32)
Vinyl chloride	ug/L	11	ND (0.23)	ND (0.23)	-	ND (0.23)	ND (0.23)	ND (0.23)
Xylene (total)	ug/L	36 J	ND (0.49)	ND (0.49)	-	ND (0.49)	ND (0.49)	ND (0.49)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-38-I*	*MW-38-I*	*MW-38-I*	*MW-38-S*	*MW-39-I*	*MW-39-S*
Sample ID:			*GW-15620-070709-DS-024*	*GW-15620-070709-DS-026*	*GW-15620-072009-RW-26*	*GW-15620-070709-DS-028*	*GW-15620-070709-RR-041*	*GW-15620-070709-RR-043*
Sample Date:			*7/7/2009*	*7/7/2009*	*7/20/2009*	*7/7/2009*	*7/7/2009*	*7/7/2009*
				Duplicate	*Field Replicate*			
Parameter	*Units*	*Max*						
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.33)	-	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.37)
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.16)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.085)	-	ND (0.086)	ND (0.085)	ND (0.086)	ND (0.098)
2,4-Dichlorophenol	ug/L	7.7	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.076)	-	ND (0.076)	ND (0.076)	ND (0.076)	ND (0.087)
2,4-Dinitrophenol	ug/L	680	ND (5.8)	-	ND (5.8)	ND (5.8)	ND (5.8)	ND (6.6)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	-	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.18)
2,6-Dinitrotoluene	ug/L	ND	ND (0.18)	-	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.21)
2-Chloronaphthalene	ug/L	20	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.16)
2-Chlorophenol	ug/L	27 J	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.23)
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)
2-Methylphenol	ug/L	15 J	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	-	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.18)
2-Nitrophenol	ug/L	2.3 J	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.34)	-	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.39)
3-Nitroaniline	ug/L	0.98 J	ND (0.24)	-	ND (0.25)	ND (0.24)	ND (0.25)	ND (0.28)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.3)	-	ND (7.4)	ND (7.3)	ND (7.4)	ND (8.4)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	-	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.20)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.24)	-	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.27)
4-Chloroaniline	ug/L	4.2 J	ND (1.0)	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.2)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.098)	-	ND (0.099)	ND (0.098)	ND (0.099)	ND (0.11)
4-Methylphenol	ug/L	16 J	ND (0.17)	-	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)
4-Nitroaniline	ug/L	0.80 J	ND (0.21)	-	ND (0.22)	ND (0.21)	ND (0.22)	ND (0.25)
4-Nitrophenol	ug/L	ND	ND (6.6)	-	ND (6.7)	ND (6.6)	ND (6.7)	ND (7.6)
Acenaphthene	ug/L	1.5 J	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.16)
Acenaphthylene	ug/L	0.80 J	ND (0.080)	-	ND (0.080)	ND (0.080)	ND (0.080)	ND (0.091)
Acetophenone	ug/L	ND	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.24)
Aniline	ug/L	2900	ND (0.38)	-	ND (0.39)	ND (0.38)	ND (0.39)	ND (0.44)
Anthracene	ug/L	ND	ND (0.98)	-	ND (0.99)	ND (0.98)	ND (0.99)	ND (1.1)
Atrazine	ug/L	ND	ND (0.19)	-	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.22)
Benzaldehyde	ug/L	9.2 J	ND (0.47)	-	ND (0.48)	ND (0.47)	ND (0.48)	ND (0.54)
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	-	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	-	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.13)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.18)
Benzo(g,h,i)perylene	ug/L	7	ND (0.081)	-	ND (0.082)	ND (0.081)	ND (0.082)	ND (0.094)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.15)	-	ND (0.16)	ND (0.15)	ND (0.16)	ND (0.18)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.14)	-	ND (0.15)	ND (0.14)	ND (0.15)	ND (0.17)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.25)	-	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.28)
bis(2-Ethylhexyl)phthalate	ug/L	14	14	-	ND (0.44)	ND (0.43)	ND (0.44)	ND (0.50)
Butyl benzylphthalate	ug/L	ND	ND (2.9)	-	ND (2.9)	ND (2.9)	ND (2.9)	ND (3.3)
Caprolactam	ug/L	36 J	ND (6.8)	-	ND (6.9)	ND (6.8)	ND (6.9)	ND (7.8)
Carbazole	ug/L	1.0 J	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)
Chrysene	ug/L	4.3	ND (0.10)	-	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.12)
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	-	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.14)
Dibenzofuran	ug/L	0.92 J	ND (0.17)	-	ND (0.18)	ND (0.17)	ND (0.18)	ND (0.20)
Diethyl phthalate	ug/L	30	ND (0.42)	-	ND (0.43)	ND (0.42)	1.0 J	ND (0.48)
Dimethyl phthalate	ug/L	ND	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.28)	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.32)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-38-I*	*MW-38-I*	*MW-38-I*	*MW-38-S*	*MW-39-I*	*MW-39-S*
Sample ID:			*GW-15620-070709-DS-024*	*GW-15620-070709-DS-026*	*GW-15620-072009-RW-26*	*GW-15620-070709-DS-028*	*GW-15620-070709-RR-041*	*GW-15620-070709-RR-043*
Sample Date:			*7/7/2009*	*7/7/2009*	*7/20/2009*	*7/7/2009*	*7/7/2009*	*7/7/2009*
				Duplicate	*Field Replicate*			
Parameter	*Units*	*Max*						
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)
Fluoranthene	ug/L	1.1 J	ND (0.094)	-	ND (0.095)	ND (0.094)	ND (0.095)	ND (0.11)
Fluorene	ug/L	0.95 J	ND (0.093)	-	ND (0.094)	ND (0.093)	ND (0.094)	ND (0.11)
Hexachlorobenzene	ug/L	0.89 J	ND (0.17)	-	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)
Hexachlorobutadiene	ug/L	ND	ND (0.11)	-	ND (0.12)	ND (0.11)	ND (0.12)	ND (0.13)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	-	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)
Hexachloroethane	ug/L	ND	ND (0.072)	-	ND (0.073)	ND (0.072)	ND (0.073)	ND (0.083)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)
Isophorone	ug/L	0.93 J	ND (0.27)	-	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.31)
Naphthalene	ug/L	2200	ND (0.26)	-	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.30)
Nitrobenzene	ug/L	15000	ND (0.17)	-	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.36)	-	ND (0.37)	ND (0.36)	ND (0.37)	ND (0.42)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.46)	-	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.53)
Pentachlorophenol	ug/L	ND	ND (1.8)	-	ND (1.8)	ND (1.8)	ND (1.8)	ND (2.0)
Phenanthrene	ug/L	1.2 J	ND (0.27)	-	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.31)
Phenol	ug/L	0.83 J	ND (0.22)	-	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.26)
Pyrene	ug/L	1.4 J	ND (0.10)	-	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.12)
Metals								
Aluminum	ug/L	3440	ND (9.7) U	ND (9.7) U	-	ND (9.7) U	ND (9.7) U	212
Aluminum (Dissolved)	ug/L	1170	ND (34.5) U	ND (33.7) U	-	ND (44.6) U	ND (32.5) U	ND (88.4) U
Antimony	ug/L	2.3 J	ND (1.3)	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	ND (1.3)	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	ug/L	436	ND (2.7)	ND (2.7)	-	ND (2.7)	ND (2.7)	ND (2.7)
Arsenic (Dissolved)	ug/L	448	ND (2.7)	ND (2.7)	-	ND (2.7)	ND (2.7)	ND (2.7)
Barium	ug/L	626	19.4 J	19.5 J	-	25.6 J	8.0 J	26.8 J
Barium (Dissolved)	ug/L	679	19.4 J	19.1 J	-	23.8 J	8.2 J	25.3 J
Beryllium	ug/L	ND	ND (0.48) U	ND (0.39) U	-	ND (0.37) U	ND (0.41) U	ND (0.44) U
Beryllium (Dissolved)	ug/L	ND	ND (0.45) U	ND (0.50) U	-	ND (0.42) U	ND (0.45) U	ND (0.42) U
Cadmium	ug/L	8.3	0.16 J	0.16 J	-	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	ug/L	219000	11600	11600	-	24400	10400	2970 J
Calcium (Dissolved)	ug/L	226000	11600	11400	-	23200	10900	2920 J
Chromium	ug/L	90.6	ND (0.66) U	ND (0.57)	-	ND (0.80) U	ND (0.57)	ND (0.57)
Chromium Total (Dissolved)	ug/L	17.4	ND (0.57)	ND (0.57)	-	ND (0.57)	ND (0.57)	ND (0.57)
Cobalt	ug/L	113	1.8 J	1.5 J	-	0.98 J	0.56 J	6.0 J
Cobalt (Dissolved)	ug/L	108	1.7 J	1.8 J	-	1.3 J	0.71 J	6.0 J
Copper	ug/L	294	ND (2.7)	ND (2.7)	-	3.2 J	ND (2.7)	ND (2.7)
Copper (Dissolved)	ug/L	54.6	ND (2.7)	ND (2.7)	-	ND (2.7)	ND (2.7)	ND (2.7)
Iron	ug/L	94400	19.8 J	25.5 J	-	ND (96.1) U	ND (11.9)	108
Iron (Dissolved)	ug/L	97700	ND (11.9)	ND (11.9)	-	ND (11.9)	ND (11.9)	ND (11.9)
Lead	ug/L	70.9	ND (1.3)	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)
Lead (Dissolved)	ug/L	41.2	ND (1.3)	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)
Magnesium	ug/L	265000	2740 J	2730 J	-	4450 J	3440 J	3780 J
Magnesium (Dissolved)	ug/L	261000	2760 J	2730 J	-	4240 J	3600 J	3790 J
Manganese	ug/L	14300	685	684	-	630	345	591
Manganese (Dissolved)	ug/L	14100	684	672	-	575	350	580
Mercury	ug/L	6.9	ND (0.038)	ND (0.038)	-	ND (0.038)	ND (0.038)	ND (0.038)
Mercury (Dissolved)	ug/L	0.38	ND (0.038)	ND (0.038)	-	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	ug/L	148	ND (3.2) U	ND (3.5) U	-	ND (6.1) U	ND (3.0) U	ND (3.0) U

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-38-I*	*MW-38-I*	*MW-38-I*	*MW-38-S*	*MW-39-I*	*MW-39-S*
Sample ID:			*GW-15620-070709-DS-024*	*GW-15620-070709-DS-026*	*GW-15620-072009-RW-26*	*GW-15620-070709-DS-028*	*GW-15620-070709-RR-041*	*GW-15620-070709-RR-043*
Sample Date:			*7/7/2009*	*7/7/2009*	*7/20/2009*	*7/7/2009*	*7/7/2009*	*7/7/2009*
				Duplicate	*Field Replicate*			
Parameter	*Units*	*Max*						
Nickel (Dissolved)	ug/L	88.5	ND (2.8) U	ND (3.4) U	-	ND (5.5) U	ND (3.0) U	ND (3.0) U
Potassium	ug/L	121000	3460 J	3490 J	-	3800 J	3470 J	4290 J
Potassium (Dissolved)	ug/L	118000 J	3540 J	3500 J	-	3740 J	3640 J	4280 J
Selenium	ug/L	3.6 J	ND (3.0)	ND (3.0)	-	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	ND (3.0)	-	ND (3.0)	ND (3.0)	ND (3.0)
Silver	ug/L	5.5	ND (0.68)	ND (0.68)	-	ND (0.68)	ND (0.68)	ND (0.68)
Silver (Dissolved)	ug/L	3.2 J	ND (0.68)	ND (0.68)	-	ND (0.68)	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	29800	29900	-	31900	42200	25500
Sodium (Dissolved)	ug/L	2250000	30400	29900	-	30900	44000	25200
Thallium	ug/L	6.1 J	ND (2.4)	ND (2.4)	-	ND (3.4) U	ND (4.0) U	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	ND (2.4)	ND (2.4)	-	ND (4.1) U	ND (3.2) U	ND (2.4)
Vanadium	ug/L	28.8 J	ND (1.9)	ND (1.9)	-	ND (1.9)	ND (1.9)	2.2 J
Vanadium (Dissolved)	ug/L	29.2 J	ND (1.9)	ND (1.9)	-	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	ug/L	254	4.4 J	5.4 J	-	28.9	ND (2.5)	42.2
Zinc (Dissolved)	ug/L	170	7.2 J	7.6 J	-	31.2	6.5 J	40.9
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0024)	ND (0.0024)	-	ND (0.0024)	ND (0.0025)	ND (0.0024)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0024)	ND (0.0024)	-	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0028)	ND (0.0028)	-	ND (0.0028)	ND (0.0029)	ND (0.0028)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	ND (0.0018)	ND (0.0018)	-	ND (0.0018)	ND (0.0018)	ND (0.0018)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0022)	ND (0.0022)	-	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0022)	ND (0.0022)	-	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0013)	ND (0.0013)	-	ND (0.0013)	ND (0.0013)	ND (0.0013)
Gases								
Carbon dioxide	ug/L	160000	15000	16000	-	22000	16000	16000
General Chemistry								
Alkalinity, Total (as CaCO3)	mg/L	512	22.2	22.7	-	21.6	27.2	9.7
Ammonia	mg/L	11.1	0.38	0.39	-	0.47	0.28	0.55
Chloride	mg/L	3900	34.3	34.3	-	61.0	52.6	30.1
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	1.9	1.8	-	2.8	1.2	2.7
Nitrate (as N)	mg/L	6.5	6.2	5.7	-	6.5	4.9	1.7
Nitrite (as N)	mg/L	1.5	ND (0.0032)	ND (0.0032)	-	0.067	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	601	18.1	17.9	-	21.3	18.2	23.3

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-40-I*	*MW-41-I*	*TW-1*	*TW-3*	*TW-4*
Sample ID:			*GW-15620-071009-DS-040*	*GW-15620-072009-RR-063*	*GW-15620-081209-RR-097*	*GW-15620-080409-RR-095*	*GW-15620-081309-RR-099*
Sample Date:			*7/10/2009*	*7/20/2009*	*8/12/2009*	*8/4/2009*	*8/13/2009*
Parameter	***Units***	***Max***					
Volatiles							
1,1,1-Trichloroethane	ug/L	ND	ND (7.2)	ND (0.29)	ND (2.9)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	ug/L	ND	ND (5.0)	ND (0.20)	ND (2.0)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	ug/L	ND	ND (5.0)	ND (0.20)	ND (2.0)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	ug/L	0.52 J	ND (2.9)	ND (0.12)	ND (1.2)	ND (0.12)	ND (0.12)
1,1-Dichloroethene	ug/L	ND	ND (7.4)	ND (0.30)	ND (3.0)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	ug/L	1300	ND (3.9)	0.51 J	1.6 J	ND (0.15)	ND (0.15)
1,2,4-Trichlorobenzene	ug/L	6300	ND (6.8)	0.41 J	17	ND (0.27)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND	ND (3.5)	ND (0.14)	ND (1.4)	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND	ND (4.5)	ND (0.18)	ND (1.8)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	ug/L	8300	9.3 J	ND (0.15)	49	ND (0.15)	0.18 J
1,2-Dichloroethane	ug/L	ND	ND (5.3)	ND (0.21)	ND (2.1)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	ug/L	ND	ND (2.4)	ND (0.095)	ND (0.95)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	ug/L	1900	9.4 J	0.28 J	17	ND (0.11)	ND (0.11)
1,4-Dichlorobenzene	ug/L	3100	31	0.33 J	39	ND (0.21)	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	ug/L	72	ND (14)	ND (0.55)	ND (5.5) UJ	72	ND (0.55) UJ
2-Hexanone	ug/L	ND	ND (4.0)	ND (0.16)	ND (1.6) UJ	ND (0.16)	ND (0.16) UJ
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND	ND (13)	ND (0.53)	ND (5.3)	ND (0.53)	ND (0.53)
Acetone	ug/L	7.4 J	ND (62)	ND (2.5)	ND (25) UJ	7.4 J	ND (2.5) UJ
Benzene	ug/L	230 J	8.4 J	ND (0.11)	2.2 J	ND (0.11)	0.12 J
Bromodichloromethane	ug/L	4.2	ND (3.2)	ND (0.13)	ND (1.3)	ND (0.13)	ND (0.13)
Bromoform	ug/L	ND	ND (4.8) UJ	ND (0.19)	ND (1.9)	ND (0.19)	ND (0.19)
Bromomethane (Methyl Bromide)	ug/L	ND	ND (7.8)	ND (0.31)	ND (3.1) UJ	ND (0.31)	ND (0.31) UJ
Carbon disulfide	ug/L	2.8	ND (5.3)	ND (0.21)	ND (2.1)	2.8	0.23 J
Carbon tetrachloride	ug/L	ND	ND (3.4)	ND (0.14)	ND (1.4)	ND (0.14)	ND (0.14)
Chlorobenzene	ug/L	19000	380	0.46 J	360	ND (0.14)	1.5
Chloroethane	ug/L	ND	ND (5.4)	ND (0.21)	ND (2.1)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	ug/L	23	ND (4.3)	ND (0.17)	ND (1.7)	ND (0.17)	ND (0.17)
Chloromethane (Methyl Chloride)	ug/L	ND	ND (7.1)	ND (0.28)	ND (2.8)	ND (0.28)	ND (0.28)
cis-1,2-Dichloroethene	ug/L	49	ND (5.9)	ND (0.24)	ND (2.4)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	ug/L	ND	ND (4.7)	ND (0.19)	ND (1.9)	ND (0.19)	ND (0.19)
Cyclohexane	ug/L	9.8	ND (6.4)	ND (0.25)	ND (2.5)	ND (0.25)	ND (0.25)
Dibromochloromethane	ug/L	0.39 J	ND (3.4)	ND (0.14)	ND (1.4)	ND (0.14)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	ug/L	ND	ND (4.8) UJ	ND (0.19)	ND (1.9)	ND (0.19)	ND (0.19)
Ethylbenzene	ug/L	15 J	ND (5.7)	ND (0.23)	ND (2.3)	ND (0.23)	ND (0.23)
Isopropylbenzene	ug/L	6.2 J	ND (4.1)	ND (0.16)	ND (1.6)	ND (0.16)	ND (0.16)
Methyl acetate	ug/L	ND	ND (3.4)	ND (0.14)	ND (1.4)	ND (0.14)	ND (0.14)
Methyl cyclohexane	ug/L	54	ND (6.5)	ND (0.26)	ND (2.6)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	ug/L	12 J	12 J	0.25 J	ND (1.8)	ND (0.18)	ND (0.18)
Methylene chloride	ug/L	170 J	ND (3.7)	ND (0.15)	ND (1.5) U	ND (0.15)	ND (0.15)
Styrene	ug/L	ND	ND (2.4)	ND (0.097)	ND (0.97)	ND (0.097)	ND (0.097)
Tetrachloroethene	ug/L	ND	ND (3.7) UJ	ND (0.15)	ND (1.5)	ND (0.15)	ND (0.15)
Toluene	ug/L	6100	ND (3.8)	ND (0.15)	ND (1.5)	1.5	ND (0.15)
trans-1,2-Dichloroethene	ug/L	0.59 J	ND (4.2)	ND (0.17)	ND (1.7)	ND (0.17)	ND (0.17)
trans-1,3-Dichloropropene	ug/L	ND	ND (3.7)	ND (0.15)	ND (1.5)	ND (0.15)	ND (0.15)
Trichloroethene	ug/L	480	ND (3.6)	ND (0.14)	ND (1.4)	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	ug/L	ND	ND (5.0)	ND (0.20)	ND (2.0)	ND (0.20)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	ug/L	ND	ND (8.0)	ND (0.32)	ND (3.2)	ND (0.32)	ND (0.32)
Vinyl chloride	ug/L	11	ND (5.7)	ND (0.23)	ND (2.3)	ND (0.23)	ND (0.23)
Xylene (total)	ug/L	36 J	ND (12)	ND (0.49)	ND (4.9)	ND (0.49)	ND (0.49)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-40-I*	*MW-41-I*	*TW-1*	*TW-3*	*TW-4*
Sample ID:			*GW-15620-071009-DS-040*	*GW-15620-072009-RR-063*	*GW-15620-081209-RR-097*	*GW-15620-080409-RR-095*	*GW-15620-081309-RR-099*
Sample Date:			*7/10/2009*	*7/20/2009*	*8/12/2009*	*8/4/2009*	*8/13/2009*
Parameter	*Units*	*Max*					
Semi-Volatiles							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	ND	ND (0.33)	ND (0.35)	ND (0.38)	ND (0.37)	ND (0.38)
2,4,5-Trichlorophenol	ug/L	4.6 J	ND (0.14)	ND (0.15)	ND (0.17)	ND (0.16)	ND (0.17)
2,4,6-Trichlorophenol	ug/L	0.71 J	ND (0.086)	ND (0.092)	ND (0.10)	ND (0.098)	ND (0.10)
2,4-Dichlorophenol	ug/L	7.7	ND (0.13)	ND (0.14)	0.38 J	ND (0.15)	ND (0.15)
2,4-Dimethylphenol	ug/L	0.68 J	ND (0.076)	ND (0.081)	ND (0.088)	ND (0.087)	ND (0.089)
2,4-Dinitrophenol	ug/L	680	ND (5.8)	ND (6.2)	ND (6.8)	ND (6.6)	ND (6.8)
2,4-Dinitrotoluene	ug/L	0.75 J	ND (0.16)	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.18)
2,6-Dinitrotoluene	ug/L	ND	ND (0.18)	ND (0.19)	ND (0.21)	ND (0.21)	ND (0.21)
2-Chloronaphthalene	ug/L	20	ND (0.14)	ND (0.15)	ND (0.17)	ND (0.16)	ND (0.17)
2-Chlorophenol	ug/L	27 J	ND (0.20)	ND (0.21)	3.3 J	ND (0.23)	ND (0.23)
2-Methylnaphthalene	ug/L	0.71 J	ND (0.15)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.17)
2-Methylphenol	ug/L	15 J	ND (0.13)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.16)
2-Nitroaniline	ug/L	1.1 J	ND (0.16)	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.18)
2-Nitrophenol	ug/L	2.3 J	ND (0.13)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)
3,3'-Dichlorobenzidine	ug/L	3.4 J	ND (0.34)	ND (0.37)	ND (0.40)	ND (0.39)	ND (0.40)
3-Nitroaniline	ug/L	0.98 J	ND (0.25)	ND (0.26)	ND (0.29)	ND (0.28)	ND (0.29)
4,6-Dinitro-2-methylphenol	ug/L	ND	ND (7.4)	ND (7.9)	ND (8.6)	ND (8.4)	ND (8.7)
4-Bromophenyl phenyl ether	ug/L	0.90 J	ND (0.18)	ND (0.19)	ND (0.21)	ND (0.20)	ND (0.21)
4-Chloro-3-methylphenol	ug/L	1.0 J	ND (0.24)	ND (0.26)	ND (0.28)	ND (0.27)	ND (0.28)
4-Chloroaniline	ug/L	4.2 J	ND (1.0)	ND (1.1)	ND (1.2)	ND (1.2)	ND (1.2)
4-Chlorophenyl phenyl ether	ug/L	0.85 J	ND (0.099)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)
4-Methylphenol	ug/L	16 J	ND (0.17)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.20)
4-Nitroaniline	ug/L	0.80 J	ND (0.22)	ND (0.23)	ND (0.25)	ND (0.25)	ND (0.25)
4-Nitrophenol	ug/L	ND	ND (6.7)	ND (7.1)	ND (7.7)	ND (7.6) UJ	ND (7.8)
Acenaphthene	ug/L	1.5 J	ND (0.14)	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.16)
Acenaphthylene	ug/L	0.80 J	ND (0.080)	ND (0.085)	ND (0.093)	ND (0.091)	ND (0.094)
Acetophenone	ug/L	ND	ND (0.21)	ND (0.22)	ND (0.24)	ND (0.24)	ND (0.24)
Aniline	ug/L	2900	ND (0.39)	ND (0.41)	ND (0.45)	ND (0.44)	ND (0.45)
Anthracene	ug/L	ND	ND (0.99)	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.2)
Atrazine	ug/L	ND	ND (0.19)	ND (0.20)	ND (0.22)	ND (0.22)	ND (0.22)
Benzaldehyde	ug/L	9.2 J	ND (0.48)	ND (0.51)	ND (0.55)	ND (0.54)	ND (0.56)
Benzo(a)anthracene	ug/L	3.3	ND (0.17)	ND (0.18)	0.49 J	ND (0.19)	ND (0.19)
Benzo(a)pyrene	ug/L	8.4	ND (0.11)	ND (0.12)	0.29 J	ND (0.13)	ND (0.13)
Benzo(b)fluoranthene	ug/L	3.9	ND (0.15)	ND (0.16)	0.44 J	ND (0.18)	ND (0.18)
Benzo(g,h,i)perylene	ug/L	7	ND (0.082)	ND (0.087)	0.51 J	ND (0.094)	ND (0.096)
Benzo(k)fluoranthene	ug/L	3.8	ND (0.16)	ND (0.17)	0.37 J	ND (0.18)	ND (0.18)
Biphenyl (1,1-Biphenyl)	ug/L	0.20 J	ND (0.15)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.17)
bis(2-Chloroethoxy)methane	ug/L	ND	ND (0.13)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)
bis(2-Chloroethyl)ether	ug/L	ND	ND (0.25)	ND (0.27)	ND (0.29)	ND (0.28)	ND (0.29)
bis(2-Ethylhexyl)phthalate	ug/L	14	ND (0.44)	ND (0.47)	3.1 J	ND (0.50)	6.3 J
Butyl benzylphthalate	ug/L	ND	ND (2.9)	ND (3.1)	ND (3.4)	ND (3.3)	ND (3.4)
Caprolactam	ug/L	36 J	ND (6.9)	ND (7.3)	ND (8.0)	ND (7.8)	ND (8.0)
Carbazole	ug/L	1.0 J	ND (0.13)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)
Chrysene	ug/L	4.3	ND (0.10)	ND (0.11)	0.52 J	ND (0.12)	ND (0.12)
Dibenz(a,h)anthracene	ug/L	12	ND (0.12)	ND (0.13)	1.7 J	ND (0.14)	ND (0.14)
Dibenzofuran	ug/L	0.92 J	ND (0.18)	ND (0.19)	ND (0.20)	ND (0.20)	ND (0.21)
Diethyl phthalate	ug/L	30	ND (0.43)	ND (0.45)	ND (0.49)	ND (0.48)	ND (0.50)
Dimethyl phthalate	ug/L	ND	ND (0.13)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)
Di-n-butylphthalate	ug/L	2.0 J	ND (0.28)	ND (0.30)	ND (0.33)	ND (0.32)	ND (0.33)

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-40-I*	*MW-41-I*	*TW-1*	*TW-3*	*TW-4*
Sample ID:			*GW-15620-071009-DS-040*	*GW-15620-072009-RR-063*	*GW-15620-081209-RR-097*	*GW-15620-080409-RR-095*	*GW-15620-081309-RR-099*
Sample Date:			*7/10/2009*	*7/20/2009*	*8/12/2009*	*8/4/2009*	*8/13/2009*
Parameter	***Units***	***Max***					
Di-n-octyl phthalate	ug/L	10 J	ND (0.15)	ND (0.16)	10 J	ND (0.17)	ND (0.17)
Fluoranthene	ug/L	1.1 J	ND (0.095)	ND (0.10)	0.21 J	ND (0.11)	ND (0.11)
Fluorene	ug/L	0.95 J	ND (0.094)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)
Hexachlorobenzene	ug/L	0.89 J	ND (0.17)	ND (0.18)	ND (0.20)	ND (0.20)	ND (0.20)
Hexachlorobutadiene	ug/L	ND	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.13)	ND (0.13)
Hexachlorocyclopentadiene	ug/L	ND	ND (0.11)	ND (0.12)	ND (0.13) UJ	ND (0.12)	ND (0.13)
Hexachloroethane	ug/L	ND	ND (0.073)	ND (0.077)	ND (0.084)	ND (0.083)	ND (0.085)
Indeno(1,2,3-cd)pyrene	ug/L	9.7	ND (0.15)	ND (0.16)	1.9 J	ND (0.17)	ND (0.18)
Isophorone	ug/L	0.93 J	ND (0.27)	ND (0.29)	ND (0.32)	ND (0.31)	ND (0.32)
Naphthalene	ug/L	2200	ND (0.26)	ND (0.28)	ND (0.31)	ND (0.30)	ND (0.31)
Nitrobenzene	ug/L	15000	ND (0.17)	ND (0.18)	ND (0.20)	ND (0.19)	ND (0.20)
N-Nitrosodi-n-propylamine	ug/L	ND	ND (0.37)	ND (0.39)	ND (0.42)	ND (0.42)	ND (0.43)
N-Nitrosodiphenylamine	ug/L	0.93 J	ND (0.46)	ND (0.49)	ND (0.54)	ND (0.53)	ND (0.54)
Pentachlorophenol	ug/L	ND	ND (1.8)	ND (1.9)	ND (2.1)	ND (2.0)	ND (2.1)
Phenanthrene	ug/L	1.2 J	ND (0.27)	ND (0.29)	ND (0.31)	ND (0.31)	ND (0.32)
Phenol	ug/L	0.83 J	ND (0.22)	ND (0.24)	ND (0.26)	ND (0.26)	ND (0.26)
Pyrene	ug/L	1.4 J	ND (0.11)	ND (0.11)	0.19 J	ND (0.12)	ND (0.12)
Metals							
Aluminum	ug/L	3440	66.3 J	110 J	485 J	ND (218) U	424
Aluminum (Dissolved)	ug/L	1170	ND (22.1) U	ND (9.7)	157 J	122 J	327
Antimony	ug/L	2.3 J	ND (1.3)	ND (1.3)	2.3 J	ND (1.3)	ND (1.3)
Antimony (Dissolved)	ug/L	5.1 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	ug/L	436	20.9	ND (2.7)	ND (2.7)	6.4 J	ND (2.7)
Arsenic (Dissolved)	ug/L	448	21.1	ND (2.7)	ND (2.7)	5.7 J	ND (2.7)
Barium	ug/L	626	39.7 J	8.7 J	9.1 J	ND (9.8) U	28.2 J
Barium (Dissolved)	ug/L	679	41.2 J	8.4 J	8.4 J	10.3 J	26.8 J
Beryllium	ug/L	ND	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	ug/L	ND	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.42) U	ND (0.23)
Cadmium	ug/L	8.3	ND (0.13)	ND (0.15) U	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	ug/L	7.9	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	ug/L	219000	21500	8310	41900	54100	87200
Calcium (Dissolved)	ug/L	226000	23100	8530	41700	53000	84400
Chromium	ug/L	90.6	ND (1.8) U	ND (0.57)	90.6	10.9	30.8
Chromium Total (Dissolved)	ug/L	17.4	1.4 J	ND (0.57)	6.4	6.2	8.8
Cobalt	ug/L	113	8.2 J	0.72 J	3.5 J	ND (1.5) U	0.61 J
Cobalt (Dissolved)	ug/L	108	9.2 J	0.99 J	ND (0.66) U	ND (2.0) U	ND (0.43) U
Copper	ug/L	294	ND (2.7)	ND (2.7)	ND (2.7)	3.7 J	7.1 J
Copper (Dissolved)	ug/L	54.6	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Iron	ug/L	94400	25500	121	8790	6120	6250
Iron (Dissolved)	ug/L	97700	26800	ND (12.3) U	1030 J	5050	6340
Lead	ug/L	70.9	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Lead (Dissolved)	ug/L	41.2	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Magnesium	ug/L	265000	5460	1390 J	141000	168000	265000
Magnesium (Dissolved)	ug/L	261000	5940	1410 J	142000	166000	261000
Manganese	ug/L	14300	3390	236	267	268	414
Manganese (Dissolved)	ug/L	14100	3640	240	217	244	385
Mercury	ug/L	6.9	ND (0.038)	ND (0.038)	ND (0.059) U	ND (0.069) U	1.8
Mercury (Dissolved)	ug/L	0.38	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	ug/L	148	3.2 J	2.4 J	148	95.5	6.9 J

TABLE 3.4

GROUNDWATER ANALYTICAL RESULTS SUMMARY
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:			*MW-40-I*	*MW-41-I*	*TW-1*	*TW-3*	*TW-4*
Sample ID:			*GW-15620-071009-DS-040*	*GW-15620-072009-RR-063*	*GW-15620-081209-RR-097*	*GW-15620-080409-RR-095*	*GW-15620-081309-RR-099*
Sample Date:			*7/10/2009*	*7/20/2009*	*8/12/2009*	*8/4/2009*	*8/13/2009*
Parameter	***Units***	***Max***					
Nickel (Dissolved)	ug/L	88.5	3.1 J	2.7 J	20.2 J	88.5	ND (1.6)
Potassium	ug/L	121000	3550 J	1550 J	65000 J	63600	121000
Potassium (Dissolved)	ug/L	118000 J	3910 J	1590 J	65000 J	64100	118000 J
Selenium	ug/L	3.6 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	ug/L	4.0 J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	ug/L	5.5	1.1 J	ND (0.68)	ND (0.68)	ND (0.68)	0.86 J
Silver (Dissolved)	ug/L	3.2 J	1.0 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Sodium	ug/L	2300000	56200	5590	1140000	1910000	2300000
Sodium (Dissolved)	ug/L	2250000	61300	5670	1150000	1860000	2250000
Thallium	ug/L	6.1 J	ND (2.4)	ND (2.4)	ND (3.1) U	ND (2.4)	ND (2.4)
Thallium (Dissolved)	ug/L	6.1 J	ND (2.4)	ND (2.4)	ND (2.8) U	ND (2.4)	ND (4.2) U
Vanadium	ug/L	28.8 J	2.3 J	ND (1.9)	8.6 J	9.4 J	11.1 J
Vanadium (Dissolved)	ug/L	29.2 J	ND (1.9)	ND (1.9)	8.0 J	9.2 J	10.6 J
Zinc	ug/L	254	3.0 J	ND (7.0) U	ND (9.0) U	3.9 J	ND (10.5) U
Zinc (Dissolved)	ug/L	170	ND (2.5)	ND (7.3) U	ND (4.4) U	3.3 J	ND (5.0) U
PCBs							
Aroclor-1016 (PCB-1016)	ug/L	ND	ND (0.0024)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)
Aroclor-1221 (PCB-1221)	ug/L	ND	ND (0.0024)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)
Aroclor-1232 (PCB-1232)	ug/L	0.12	ND (0.0028)	ND (0.0029)	ND (0.0030)	ND (0.0029)	ND (0.0029)
Aroclor-1242 (PCB-1242)	ug/L	1.3 J	ND (0.0018)	ND (0.0019)	ND (0.0019)	ND (0.0019)	ND (0.0019)
Aroclor-1248 (PCB-1248)	ug/L	0.069	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	0.021
Aroclor-1254 (PCB-1254)	ug/L	0.3	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.0023)
Aroclor-1260 (PCB-1260)	ug/L	0.08	ND (0.0013)	ND (0.0014)	ND (0.0014)	ND (0.0014)	ND (0.0014)
Gases							
Carbon dioxide	ug/L	160000	27000	13000	35000	13000	43000
General Chemistry							
Alkalinity, Total (as CaCO3)	mg/L	512	113	12.3	119	512	93.8
Ammonia	mg/L	11.1	1.4	0.10	1.0 J	ND (0.36) U	0.13
Chloride	mg/L	3900	85.8	5.5	1980	3530	3900
Dissolved Organic Carbon (DOC), Dissolved	mg/L	39.4	11.7	ND (0.75) U	8.7	25.2	9.7
Nitrate (as N)	mg/L	6.5	ND (0.0080) U	1.1	1.4	ND (0.038)	ND (0.038)
Nitrite (as N)	mg/L	1.5	0.20	ND (0.0032)	0.42	1.1	1.5
Sulfate	mg/L	601	10.0	11.9	127	19.6	476

Notes:

B - Estimated.
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
- - Not applicable.

TABLE 3.5

SURFACE WATER ANALYTICAL RESULTS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

AOC:				*AOC1*	*AOC1*	*AOC1*	*AOC1*	*AOC1*
Sample Location:				*SW-L1*	*SW-L2*	*SW-L3*	*SW-L4*	*DW-1*
Sample ID:				*SW-15620-080409-RR-002*	*SW-15620-080409-RR-001*	*SW-15620-080409-RR-003*	*SW-15620-080409-RR-004*	*SW-15620-121208-RR-001*
Sample Date:				*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*	*12/12/2008*
Parameter	*Units*	*ESV Criteria a*	*USEPA Human Health Organism Only Criteria b*					
Volatiles								
1,1,1-Trichloroethane	ug/L	N/A	N/A	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.22)
1,1,2,2-Tetrachloroethane	ug/L	N/A	4.0	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.18)
1,1,2-Trichloroethane	ug/L	N/A	16	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.27)
1,1-Dichloroethane	ug/L	N/A	N/A	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.15)
1,1-Dichloroethene	ug/L	N/A	7100	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.19)
1,2,3-Trichlorobenzene	ug/L	N/A	N/A	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	NA
1,2,4-Trichlorobenzene	ug/L	44.9	70	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.15) UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	N/A	N/A	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.67) UJ
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	N/A	N/A	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.24)
1,2-Dichlorobenzene	ug/L	14	1300	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.13)
1,2-Dichloroethane	ug/L	N/A	37	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.22)
1,2-Dichloropropane	ug/L	N/A	15	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.18)
1,3-Dichlorobenzene	ug/L	38	960	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.14)
1,4-Dichlorobenzene	ug/L	9.4	190	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.13)
2-Butanone (Methyl Ethyl Ketone)	ug/L	N/A	N/A	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.57)
2-Hexanone	ug/L	N/A	N/A	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.41)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	N/A	N/A	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.32)
Acetone	ug/L	1700	N/A	ND (2.5) UJ	4.1	3.2	2.6 J	ND (1.1)
Benzene	ug/L	114	51	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.13)
Bromodichloromethane	ug/L	N/A	17	0.23 J	ND (0.13)	0.43	ND (0.13)	ND (0.15)
Bromoform	ug/L	N/A	140	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.64) UJ
Bromomethane (Methyl Bromide)	ug/L	N/A	1500	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.41)
Carbon disulfide	ug/L	N/A	N/A	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.13)
Carbon tetrachloride	ug/L	N/A	1.6	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.13) UJ
Chlorobenzene	ug/L	47	1600	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.15)
Chloroethane	ug/L	N/A	N/A	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.29)
Chloroform (Trichloromethane)	ug/L	N/A	470	1.1	ND (0.17)	1.6	0.54 J	ND (0.16)
Chloromethane (Methyl Chloride)	ug/L	N/A	N/A	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.30) UJ
cis-1,2-Dichloroethene	ug/L	970	N/A	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.17)
cis-1,3-Dichloropropene	ug/L	N/A	N/A	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.14) UJ
Cyclohexane	ug/L	N/A	N/A	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.12)
Dibromochloromethane	ug/L	N/A	13	ND (0.14)	ND (0.14)	0.24	ND (0.14)	ND (0.18) UJ
Dichlorodifluoromethane (CFC-12)	ug/L	N/A	N/A	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.31)
Ethylbenzene	ug/L	N/A	2100	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.17)
Isopropylbenzene	ug/L	N/A	N/A	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.13)
Methyl acetate	ug/L	N/A	N/A	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.38)
Methyl cyclohexane	ug/L	N/A	N/A	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.13) UJ
Methyl Tert Butyl Ether	ug/L	N/A	N/A	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.17)
Methylene chloride	ug/L	N/A	590	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.33)
Styrene	ug/L	N/A	N/A	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.11)
Tetrachloroethene	ug/L	N/A	3.3	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.29) UJ
Toluene	ug/L	253	15000	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.13)
trans-1,2-Dichloroethene	ug/L	N/A	10000	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)
trans-1,3-Dichloropropene	ug/L	N/A	N/A	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.19) UJ
Trichloroethene	ug/L	47	30	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.17)
Trichlorofluoromethane (CFC-11)	ug/L	N/A	N/A	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.21)
Trifluorotrichloroethane (Freon 113)	ug/L	N/A	N/A	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.28)
Vinyl chloride	ug/L	930	2.4	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.22)
Xylene (total)	ug/L	N/A	N/A	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.28)

TABLE 3.5

SURFACE WATER ANALYTICAL RESULTS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

AOC:				*AOC1*	*AOC1*	*AOC1*	*AOC1*	*AOC1*
Sample Location:				*SW-L1*	*SW-L2*	*SW-L3*	*SW-L4*	*DW-1*
Sample ID:				*SW-15620-080409-RR-002*	*SW-15620-080409-RR-001*	*SW-15620-080409-RR-003*	*SW-15620-080409-RR-004*	*SW-15620-121208-RR-001*
Sample Date:				*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*	*12/12/2008*
Parameter	*Units*	*ESV Criteria a*	*USEPA Human Health Organism Only Criteria b*					
Semi-Volatiles								
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	N/A	65000	ND (0.035)	ND (0.037)	ND (0.033)	ND (0.034)	ND (0.40)
2,4,5-Trichlorophenol	ug/L	N/A	3600	ND (0.015)	ND (0.016)	ND (0.015)	ND (0.015)	ND (0.30)
2,4,6-Trichlorophenol	ug/L	N/A	2.4	ND (0.0092)	ND (0.0098)	ND (0.0087)	ND (0.0090)	ND (0.80)
2,4-Dichlorophenol	ug/L	11	290	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.013)	ND (0.80)
2,4-Dimethylphenol	ug/L	N/A	850	ND (0.0081)	ND (0.0086)	ND (0.0077)	ND (0.0079)	ND (0.80)
2,4-Dinitrophenol	ug/L	N/A	5300	ND (0.62)	ND (0.66)	ND (0.59)	ND (0.61)	ND (2.4)
2,4-Dinitrotoluene	ug/L	N/A	3.4	ND (0.017)	ND (0.018)	ND (0.016)	ND (0.016)	ND (0.27)
2,6-Dinitrotoluene	ug/L	N/A	N/A	ND (0.019)	ND (0.021)	ND (0.018)	ND (0.019)	ND (0.80)
2-Chloronaphthalene	ug/L	N/A	1600	ND (0.015)	ND (0.016)	ND (0.014)	ND (0.015)	ND (0.10)
2-Chlorophenol	ug/L	N/A	150	ND (0.021)	ND (0.023)	ND (0.020)	ND (0.021)	ND (0.29)
2-Methylnaphthalene	ug/L	N/A	N/A	ND (0.016)	ND (0.017)	ND (0.015)	ND (0.016)	ND (0.10)
2-Methylphenol	ug/L	N/A	N/A	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.014)	ND (0.80)
2-Nitroaniline	ug/L	N/A	N/A	ND (0.017)	ND (0.018)	ND (0.016)	ND (0.016)	ND (0.80)
2-Nitrophenol	ug/L	N/A	N/A	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.014)	ND (0.28)
3,3'-Dichlorobenzidine	ug/L	N/A	0.028	ND (0.036)	ND (0.039)	ND (0.035)	ND (0.036)	ND (0.37)
3-Nitroaniline	ug/L	N/A	N/A	ND (0.026)	ND (0.028)	ND (0.025)	ND (0.026)	ND (0.28)
4,6-Dinitro-2-methylphenol	ug/L	N/A	N/A	ND (0.79)	ND (0.84)	ND (0.75)	ND (0.77)	ND (2.4)
4-Bromophenyl phenyl ether	ug/L	N/A	N/A	ND (0.019)	ND (0.020)	ND (0.018)	ND (0.019)	ND (0.80)
4-Chloro-3-methylphenol	ug/L	N/A	N/A	ND (0.026)	ND (0.027)	ND (0.024)	ND (0.025)	ND (0.80)
4-Chloroaniline	ug/L	N/A	N/A	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.11)	ND (0.80)
4-Chlorophenyl phenyl ether	ug/L	N/A	N/A	ND (0.011)	ND (0.011)	ND (0.010)	ND (0.010)	ND (0.30)
4-Methylphenol	ug/L	N/A	N/A	ND (0.018)	ND (0.019)	ND (0.017)	ND (0.018)	ND (0.80)
4-Nitroaniline	ug/L	N/A	N/A	ND (0.023)	ND (0.025)	ND (0.022)	ND (0.023)	ND (0.80)
4-Nitrophenol	ug/L	N/A	N/A	ND (0.71)	ND (0.76)	ND (0.68)	ND (0.70)	ND (2.4)
Acenaphthene	ug/L	N/A	990	ND (0.015)	ND (0.016)	ND (0.014)	ND (0.014)	ND (0.10)
Acenaphthylene	ug/L	N/A	N/A	ND (0.0086)	ND (0.0092)	ND (0.0082)	ND (0.0084)	ND (0.10)
Acetophenone	ug/L	N/A	N/A	ND (0.022)	ND (0.024)	ND (0.021)	ND (0.022)	ND (0.34)
Aniline	ug/L	N/A	N/A	ND (0.041)	ND (0.044)	ND (0.039)	ND (0.040)	NA
Anthracene	ug/L	N/A	40000	ND (0.0087)	ND (0.0093)	ND (0.0083)	ND (0.0085)	ND (0.10)
Atrazine	ug/L	N/A	N/A	ND (0.020)	ND (0.022)	ND (0.019)	ND (0.020)	ND (0.34)
Benzaldehyde	ug/L	N/A	N/A	0.95 J	1.0 J	1.0	0.96 J	ND (0.39)
Benzo(a)anthracene	ug/L	N/A	0.018	ND (0.018)	ND (0.019)	ND (0.017)	ND (0.017)	ND (0.10)
Benzo(a)pyrene	ug/L	N/A	0.018	ND (0.012)	ND (0.013)	ND (0.011)	ND (0.012)	ND (0.10)
Benzo(b)fluoranthene	ug/L	N/A	0.018	ND (0.016)	ND (0.018)	ND (0.016)	ND (0.016)	ND (0.10)
Benzo(g,h,i)perylene	ug/L	N/A	N/A	ND (0.0087)	ND (0.0094)	ND (0.0083)	ND (0.0086)	ND (0.10)
Benzo(k)fluoranthene	ug/L	N/A	0.018	ND (0.017)	ND (0.018)	ND (0.016)	ND (0.016)	ND (0.10)
Biphenyl (1,1-Biphenyl)	ug/L	N/A	N/A	ND (0.016)	ND (0.017)	ND (0.015)	ND (0.015)	ND (0.80)
bis(2-Chloroethoxy)methane	ug/L	N/A	N/A	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.014)	ND (0.32)
bis(2-Chloroethyl)ether	ug/L	N/A	0.53	ND (0.027)	ND (0.029)	ND (0.025)	ND (0.026)	ND (0.10)
bis(2-Ethylhexyl)phthalate	ug/L	N/A	2.2	3.2[b]	2.0	2.6[b]	2.8[b]	ND (0.80)
Butyl benzylphthalate	ug/L	N/A	1900	ND (0.31)	0.51 J	0.54 J	ND (0.30)	ND (0.80)
Caprolactam	ug/L	N/A	N/A	3.0 J	3.6 J	5.3	3.2 J	ND (0.80)
Carbazole	ug/L	N/A	N/A	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.014)	ND (0.28)
Chrysene	ug/L	N/A	0.018	ND (0.011)	ND (0.012)	ND (0.010)	ND (0.011)	ND (0.10)
Dibenz(a,h)anthracene	ug/L	N/A	0.018	ND (0.013)	ND (0.014)	ND (0.012)	ND (0.013)	ND (0.10)
Dibenzofuran	ug/L	N/A	N/A	0.026 J	ND (0.020)	0.032 J	ND (0.018)	ND (0.10)
Diethyl phthalate	ug/L	N/A	44000	0.10 J	0.16 J	0.27 J	0.15 J	ND (0.60)
Dimethyl phthalate	ug/L	N/A	1100000	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.014)	ND (0.29)

TABLE 3.5

SURFACE WATER ANALYTICAL RESULTS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

AOC:				*AOC1*	*AOC1*	*AOC1*	*AOC1*	*AOC1*
Sample Location:				*SW-L1*	*SW-L2*	*SW-L3*	*SW-L4*	*DW-1*
Sample ID:				*SW-15620-080409-RR-002*	*SW-15620-080409-RR-001*	*SW-15620-080409-RR-003*	*SW-15620-080409-RR-004*	*SW-15620-121208-RR-001*
Sample Date:				*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*	*12/12/2008*
Parameter	*Units*	*ESV Criteria*	*USEPA Human Health Organism Only Criteria*					
		a	*b*					
Di-n-butylphthalate	ug/L	N/A	4500	0.076 J	0.087 J	0.13 J	0.19 J	ND (0.67)
Di-n-octyl phthalate	ug/L	N/A	N/A	ND (0.016)	ND (0.017)	ND (0.015)	ND (0.015)	ND (0.80)
Fluoranthene	ug/L	N/A	140	ND (0.010)	ND (0.011)	ND (0.0096)	ND (0.0099)	ND (0.10)
Fluorene	ug/L	N/A	5300	ND (0.010)	ND (0.011)	ND (0.0095)	ND (0.0098)	ND (0.10)
Hexachlorobenzene	ug/L	N/A	0.00029	ND (0.018)	ND (0.020)	ND (0.017)	ND (0.018)	ND (0.10)
Hexachlorobutadiene	ug/L	N/A	18	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.012)	ND (0.27)
Hexachlorocyclopentadiene	ug/L	N/A	1100	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.80)
Hexachloroethane	ug/L	N/A	3.3	ND (0.0078)	ND (0.0083)	ND (0.0074)	ND (0.0076)	ND (0.80)
Indeno(1,2,3-cd)pyrene	ug/L	N/A	0.018	ND (0.016)	ND (0.017)	ND (0.015)	ND (0.016)	ND (0.10)
Isophorone	ug/L	N/A	960	ND (0.029)	ND (0.031)	ND (0.028)	ND (0.029)	ND (0.27)
Naphthalene	ug/L	N/A	N/A	ND (0.028)	ND (0.030)	ND (0.027)	ND (0.028)	ND (0.10)
Nitrobenzene	ug/L	220	690	ND (0.018)	ND (0.019)	ND (0.017)	ND (0.018)	ND (0.040)
N-Nitrosodi-n-propylamine	ug/L	N/A	0.51	ND (0.039)	ND (0.042)	ND (0.037)	ND (0.038)	ND (0.80)
N-Nitrosodiphenylamine	ug/L	N/A	6.0	ND (0.049)	ND (0.053)	ND (0.047)	ND (0.048)	ND (0.31)
Pentachlorophenol	ug/L	N/A	3	ND (0.19)	ND (0.20)	ND (0.18)	ND (0.19)	ND (2.4)
Phenanthrene	ug/L	N/A	N/A	0.11 J	0.10 J	0.15 J	0.078 J	ND (0.10)
Phenol	ug/L	N/A	1700000	ND (0.024)	ND (0.026)	ND (0.023)	ND (0.023)	ND (0.60)
Pyrene	ug/L	N/A	4000	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)	ND (0.10)
Metals								
Aluminum (Dissolved)	ug/L	87	N/A	ND (2.6) U	ND (2.6) U	ND (2.6) U	ND (2.6) U	ND (97.0) UJ
Antimony (Dissolved)	ug/L	80	640	ND (0.38) U	ND (0.22) U	ND (0.26) U	ND (0.18) U	ND (1.8) UJ
Arsenic (Dissolved)	ug/L	150	0.14	0.97 J[b]	0.64 J[b]	0.79 J[b]	0.73 J[b]	ND (3.2) UJ
Barium (Dissolved)	ug/L	220	N/A	7.6 J	4.7 J	4.0 J	4.8 J	ND (0.67) UJ
Beryllium (Dissolved)	ug/L	3.6	N/A	ND (0.037) U	ND (0.037) U	ND (0.037) U	ND (0.037) U	ND (0.46) UJ
Cadmium (Dissolved)	ug/L	N/A	N/A	ND (0.11) U	ND (0.11) U	ND (0.11) U	ND (0.11) U	ND (0.66) UJ
Calcium (Dissolved)	ug/L	N/A	N/A	17000	15200	13500	13900	9320 J
Chromium Total (Dissolved)	ug/L	48.6	N/A	4.5	4.3	5.0	4.9	ND (2.2) UJ
Cobalt (Dissolved)	ug/L	24	N/A	0.52	0.44 J	0.60	0.30 J	ND (1.7) UJ
Copper (Dissolved)	ug/L	5.16	N/A	0.72 J	1.1 J	0.96 J	0.48 J	ND (4.5) UJ
Iron (Dissolved)	ug/L	1000	N/A	174	426	283	160	207 J
Lead (Dissolved)	ug/L	1.32	N/A	ND (0.019) U	ND (0.019) U	ND (0.019) U	ND (0.019) U	ND (1.9) UJ
Magnesium (Dissolved)	ug/L	N/A	N/A	1320	1240	1170	1200	1140 J
Manganese (Dissolved)	ug/L	80	100	87.6[a]	193[ab]	116[ab]	94.2[a]	13.7 J
Mercury (Dissolved)	ug/L	0.77	N/A	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.12) UJ
Nickel (Dissolved)	ug/L	29	4600	0.67 J	0.55 J	0.64 J	0.52 J	ND (3.2) UJ
Potassium (Dissolved)	ug/L	N/A	N/A	2170 J	1960 J	1560 J	1200 J	2940 J
Selenium (Dissolved)	ug/L	5	4200	0.76 J	0.53 J	0.57 J	0.46 J	ND (4.1) UJ
Silver (Dissolved)	ug/L	0.12	N/A	ND (0.036) U	ND (0.036) U	ND (0.036) U	ND (0.036) U	ND (2.2) UJ
Sodium (Dissolved)	ug/L	N/A	N/A	11600	11300	10300	10600	9150 J
Thallium (Dissolved)	ug/L	10	0.47	0.12 J	0.10 J	0.055 J	0.040 J	ND (4.7) UJ
Vanadium (Dissolved)	ug/L	12	N/A	0.21 J	ND (0.082) U	ND (0.082) U	0.98 J	ND (0.64) UJ
Zinc (Dissolved)	ug/L	66.1	26000	23.6J	2.3 J	3.1 J	2.4 J	ND (5.0) UJ
Aluminum	ug/L	87	N/A	17.0 J	9.4 J	15.1 J	125	NA
Antimony	ug/L	80	640	ND (1.0) U	ND (0.26) U	ND (0.36) U	ND (0.26) U	NA
Arsenic	ug/L	150	0.14	2.3[b]	1.3[b]	2.1[b]	2.4[b]	NA
Barium	ug/L	220	N/A	11.8	7.4 J	6.7 J	37.6	NA
Beryllium	ug/L	3.6	N/A	ND (0.037) U	ND (0.037) U	ND (0.037) U	0.037 J	NA
Cadmium	ug/L	N/A	N/A	ND (0.11) U	ND (0.11) U	ND (0.11) U	ND (0.11) U	NA

TABLE 3.5

SURFACE WATER ANALYTICAL RESULTS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

AOC:				*AOC1*	*AOC1*	*AOC1*	*AOC1*	*AOC1*
Sample Location:				*SW-L1*	*SW-L2*	*SW-L3*	*SW-L4*	*DW-1*
Sample ID:				*SW-15620-080409-RR-002*	*SW-15620-080409-RR-001*	*SW-15620-080409-RR-003*	*SW-15620-080409-RR-004*	*SW-15620-121208-RR-001*
Sample Date:				*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*	*12/12/2008*
Parameter	*Units*	*ESV Criteria a*	*USEPA Human Health Organism Only Criteria b*					
Calcium	ug/L	N/A	N/A	16400	15100	13000	15800	NA
Chromium	ug/L	48.6	N/A	3.6	3.6	3.1	3.2	NA
Cobalt	ug/L	24	N/A	1.4	0.85	0.97	4.0	NA
Copper	ug/L	5.16	N/A	1.1 J	1.1 J	1.0 J	2.4	NA
Iron	ug/L	1000	N/A	2500[a]	2940[a]	3170[a]	6810[a]	NA
Lead	ug/L	1.32	N/A	2.6[a]	0.26 J	0.17 J	3.5[a]	NA
Magnesium	ug/L	N/A	N/A	1250	1190	1080	1280	NA
Manganese	ug/L	80	100	341[ab]	353[ab]	218[ab]	1510[ab]	NA
Mercury	ug/L	0.77	N/A	ND (0.049) U	ND (0.057) U	ND (0.041) U	ND (0.064) U	NA
Nickel	ug/L	29	4600	0.58 J	0.61 J	0.66 J	1.0	NA
Potassium	ug/L	N/A	N/A	2260	2130	1580	1760	NA
Selenium	ug/L	5	4200	0.72 J	0.64 J	ND (0.42) U	0.60 J	NA
Silver	ug/L	0.12	N/A	ND (0.036) U	ND (0.036) U	ND (0.036) U	0.098 J	NA
Sodium	ug/L	N/A	N/A	10600	10200	8900	9920	NA
Thallium	ug/L	10	0.47	0.073 J	0.092 J	0.041 J	0.029 J	NA
Vanadium	ug/L	12	N/A	1.1	2.4	1.8	2.6	NA
Zinc	ug/L	66.1	26000	5.9 J	3.4 J	5.1	19.6	NA
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	N/A	N/A	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.17)
Aroclor-1221 (PCB-1221)	ug/L	N/A	N/A	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.13)
Aroclor-1232 (PCB-1232)	ug/L	N/A	N/A	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.16)
Aroclor-1242 (PCB-1242)	ug/L	N/A	N/A	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.22)
Aroclor-1248 (PCB-1248)	ug/L	N/A	N/A	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	N/A	N/A	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.16)
Aroclor-1260 (PCB-1260)	ug/L	N/A	N/A	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.17)
General Chemistry								
Hardness	mg/L	N/A	N/A	54.0	52.0	44.0	50.0	31
Total Organic Carbon (TOC)	mg/L	N/A	N/A	10.6	9.8	10.8	9.3	NA

Notes:

J - Estimated.
ND - Non-detect at associated value.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
NV - No Value.
N/A - Not Available.
NA - Not Analyzed.
[ ] - Parameter exceeded associated screening level.

TABLE 3.6A

SURFACE SOIL ANALYTICAL RESULTS - FORMER SERVICE STATION - INSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:						*SS-SS1*
Sample ID:						*SS-15620-080409-RR-001*
Sample Date:						*8/4/2009*
Sample Depth:						*0-1 ft BGS*
		S-2/GW-1	*S-2/GW-2*	*S-2/GW-3*	*Industrial PRGs*	
		a	b	c	d	
Parameter	*Units*					
Volatiles						
1,1,1-Trichloroethane	mg/kg	30	600	1,000	38,000	ND (0.00048)
1,1,2,2-Tetrachloroethane	mg/kg	0.005	0.02	10	2.8	ND (0.0007)
1,1,2-Trichloroethane	mg/kg	0.1	2	60	5.3	ND (0.00082)
1,1-Dichloroethane	mg/kg	0.4	5	1,000	17	ND (0.00056)
1,1-Dichloroethene	mg/kg	3	40	1,000	1,100	ND (0.00083)
1,2,3-Trichlorobenzene	mg/kg	NV	NV	NV	490	ND (0.00083)
1,2,4-Trichlorobenzene	mg/kg	2	70	900	99	ND (0.00086)
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NV	NV	NV	0.069	ND (0.00073)
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.1	0.1	4	0.17	ND (0.00085)
1,2-Dichlorobenzene	mg/kg	9	30	300	9,800	ND (0.00078)
1,2-Dichloroethane	mg/kg	0.1	0.1	90	2.2	ND (0.0006)
1,2-Dichloropropane	mg/kg	0.1	0.1	100	4.5	ND (0.00053)
1,3-Dichlorobenzene	mg/kg	1	40	500	NV	ND (0.00064)
1,4-Dichlorobenzene	mg/kg	0.7	4	300	12	ND (0.00062)
2-Butanone (Methyl Ethyl Ketone)	mg/kg	4	50	400	200,000	ND (0.00086)
2-Hexanone	mg/kg	NV	NV	NV	1,400	ND (0.00068)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	0.4	50	400	53,000	ND (0.00064)
Acetone	mg/kg	6	50	400	630,000	ND (0.0049) UJ
Benzene	mg/kg	2	200	200	5.4	ND (0.00066)
Bromodichloromethane	mg/kg	0.1	0.1	100	1.4	ND (0.00055)
Bromoform	mg/kg	0.1	1	800	220	ND (0.00043)
Bromomethane (Methyl Bromide)	mg/kg	0.5	0.5	30	32	ND (0.00072) UJ
Carbon disulfide	mg/kg	NV	NV	NV	3,700	ND (0.0005)
Carbon tetrachloride	mg/kg	10	5	60	3	ND (0.00044)
Chlorobenzene	mg/kg	1	3	100	1,400	ND (0.00074)
Chloroethane	mg/kg	NV	NV	NV	61,000	ND (0.0015)
Chloroform (Trichloromethane)	mg/kg	0.4	0.3	800	1.5	ND (0.00057)
Chloromethane (Methyl Chloride)	mg/kg	NV	NV	NV	500	ND (0.00084) UJ
cis-1,2-Dichloroethene	mg/kg	0.3	0.4	500	10,000	ND (0.00069)
cis-1,3-Dichloropropene	mg/kg	NV	NV	NV	NV	ND (0.00066)
Cyclohexane	mg/kg	NV	NV	NV	29,000	ND (0.00036)
Dibromochloromethane	mg/kg	0.005	0.03	100	3.3	ND (0.0007)
Dichlorodifluoromethane (CFC-12)	mg/kg	NV	NV	NV	780	ND (0.00065)
Ethylbenzene	mg/kg	40	1,000	1,000	27	ND (0.00063)
Isopropylbenzene	mg/kg	NV	NV	NV	11,000	ND (0.00067)
Methyl acetate	mg/kg	NV	NV	NV	1,000,000	ND (0.00088)
Methyl cyclohexane	mg/kg	NV	NV	NV	NV	ND (0.00071)
Methyl Tert Butyl Ether	mg/kg	0.1	100	500	220	ND (0.00073)
Methylene chloride	mg/kg	0.1	20	900	53	ND (0.00066)
Styrene	mg/kg	3	4	200	36,000	ND (0.00069)
Tetrachloroethene	mg/kg	1	10	200	2.6	ND (0.00067)

TABLE 3.6A

SURFACE SOIL ANALYTICAL RESULTS - FORMER SERVICE STATION - INSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:						*SS-SS1*
Sample ID:						*SS-15620-080409-RR-001*
Sample Date:						*8/4/2009*
Sample Depth:						*0-1 ft BGS*
		S-2/GW-1	*S-2/GW-2*	*S-2/GW-3*	*Industrial PRGs*	
		a	b	c	d	
Parameter	***Units***					
Toluene	mg/kg	30	1,000	1,000	45,000	ND (0.00072)
trans-1,2-Dichloroethene	mg/kg	1	1	1,000	690	ND (0.00058)
trans-1,3-Dichloropropene	mg/kg	NV	NV	NV	NV	ND (0.00059)
Trichloroethene	mg/kg	0.3	2	700	14	ND (0.00065)
Trichlorofluoromethane (CFC-11)	mg/kg	NV	NV	NV	3,400	ND (0.0009)
Trifluorotrichloroethane (Freon 113)	mg/kg	NV	NV	NV	180,000	ND (0.001)
Vinyl chloride	mg/kg	0.9	0.7	4	1.7	ND (0.00046)
Xylene (total)	mg/kg	400	300	1,000	2,700	ND (0.0022)
Semi-Volatiles						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	NV	NV	NV	22	ND (0.0081)
2,4,5-Trichlorophenol	mg/kg	4	1,000	600	62,000	ND (0.0046)
2,4,6-Trichlorophenol	mg/kg	0.7	20	20	160	ND (0.0093)
2,4-Dichlorophenol	mg/kg	0.7	60	40	1,800	ND (0.0075)
2,4-Dimethylphenol	mg/kg	0.7	100	1,000	12,000	ND (0.0078)
2,4-Dinitrophenol	mg/kg	3	50	90	1,200	ND (0.06) UJ
2,4-Dinitrotoluene	mg/kg	0.7	10	10	5.5	ND (0.0087)
2,6-Dinitrotoluene	mg/kg	NV	NV	NV	620	ND (0.0095)
2-Chloronaphthalene	mg/kg	NV	NV	NV	82,000	ND (0.005)
2-Chlorophenol	mg/kg	0.7	100	300	5,100	ND (0.0057)
2-Methylnaphthalene	mg/kg	0.7	80	500	4,100	ND (0.0073)
2-Methylphenol	mg/kg	NV	NV	NV	31,000	ND (0.0069)
2-Nitroaniline	mg/kg	NV	NV	NV	6,000	ND (0.011)
2-Nitrophenol	mg/kg	NV	NV	NV	NV	ND (0.0071)
3,3'-Dichlorobenzidine	mg/kg	10	10	10	3.8	ND (0.035)
3-Nitroaniline	mg/kg	NV	NV	NV	NV	ND (0.0061)
4,6-Dinitro-2-methylphenol	mg/kg	NV	NV	NV	49	ND (0.18) UJ
4-Bromophenyl phenyl ether	mg/kg	NV	NV	NV	NV	ND (0.0079)
4-Chloro-3-methylphenol	mg/kg	NV	NV	NV	62,000	ND (0.0055)
4-Chloroaniline	mg/kg	1	100	3	8.6	ND (0.0057)
4-Chlorophenyl phenyl ether	mg/kg	NV	NV	NV	NV	ND (0.0082)
4-Methylphenol	mg/kg	NV	NV	NV	3,100	ND (0.0082)
4-Nitroaniline	mg/kg	NV	NV	NV	86	ND (0.0091)
4-Nitrophenol	mg/kg	NV	NV	NV	NV	ND (0.11)
Acenaphthene	mg/kg	4	3,000	3,000	33,000	ND (0.006)
Acenaphthylene	mg/kg	1	600	10	NV	0.0082J
Acetophenone	mg/kg	NV	NV	NV	100,000	ND (0.0086)
Aniline	mg/kg	NV	NV	NV	300	ND (0.0081)
Anthracene	mg/kg	3,000	3,000	3,000	170,000	0.0089J
Atrazine	mg/kg	NV	NV	NV	7.5	ND (0.0088)
Benzaldehyde	mg/kg	NV	NV	NV	100,000	ND (0.0049)
Benzo(a)anthracene	mg/kg	40	40	40	2.1	0.024J

TABLE 3.6A

SURFACE SOIL ANALYTICAL RESULTS - FORMER SERVICE STATION - INSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:						*SS-SS1*
Sample ID:						*SS-15620-080409-RR-001*
Sample Date:						*8/4/2009*
Sample Depth:						*0-1 ft BGS*
		S-2/GW-1	*S-2/GW-2*	*S-2/GW-3*	*Industrial PRGs*	
		a	b	c	d	
Parameter	***Units***					
Benzo(a)pyrene	mg/kg	4	4	4	0.21	0.021J
Benzo(b)fluoranthene	mg/kg	40	40	40	2.1	0.031J
Benzo(g,h,i)perylene	mg/kg	3,000	3,000	3,000	NV	0.02J
Benzo(k)fluoranthene	mg/kg	400	400	400	21	0.013J
Biphenyl (1,1-Biphenyl)	mg/kg	0.05	6	3,000	51,000	ND (0.0085)
bis(2-Chloroethoxy)methane	mg/kg	NV	NV	NV	1,800	ND (0.0075)
bis(2-Chloroethyl)ether	mg/kg	0.7	0.7	3	1.0	ND (0.0033)
bis(2-Ethylhexyl)phthalate	mg/kg	700	700	700	120	0.13J
Butyl benzylphthalate	mg/kg	NV	NV	NV	910	ND (0.013)
Caprolactam	mg/kg	NV	NV	NV	310,000	ND (0.024)
Carbazole	mg/kg	NV	NV	NV	NV	ND (0.0049)
Chrysene	mg/kg	400	400	400	210	0.03J
Dibenz(a,h)anthracene	mg/kg	4	4	4	0.21	ND (0.0082)
Dibenzofuran	mg/kg	NV	NV	NV	1,000	ND (0.0063)
Diethyl phthalate	mg/kg	10	200	300	490,000	ND (0.011)
Dimethyl phthalate	mg/kg	30	50	600	NV	ND (0.0063)
Di-n-butylphthalate	mg/kg	NV	NV	NV	62,000	ND (0.01)
Di-n-octyl phthalate	mg/kg	NV	NV	NV	NV	ND (0.0048)
Fluoranthene	mg/kg	3,000	3,000	3,000	22,000	0.026J
Fluorene	mg/kg	3,000	3,000	3,000	22,000	ND (0.0056)
Hexachlorobenzene	mg/kg	5	5	5	1.1	ND (0.007)
Hexachlorobutadiene	mg/kg	90	90	90	22	ND (0.0079)
Hexachlorocyclopentadiene	mg/kg	NV	NV	NV	3,700	ND (0.0071) UJ
Hexachloroethane	mg/kg	0.7	3	100	120	ND (0.0063)
Indeno(1,2,3-cd)pyrene	mg/kg	40	40	40	2.1	0.019J
Isophorone	mg/kg	NV	NV	NV	1,800	ND (0.0072)
Naphthalene	mg/kg	4	40	1,000	18	ND (0.0054)
Nitrobenzene	mg/kg	NV	NV	NV	24	ND (0.0094)
N-Nitrosodi-n-propylamine	mg/kg	NV	NV	NV	0.25	ND (0.01)
N-Nitrosodiphenylamine	mg/kg	NV	NV	NV	350	ND (0.0076)
Pentachlorophenol	mg/kg	3	70	10	9.0	ND (0.032)
Phenanthrene	mg/kg	10	1,000	1,000	NV	0.017J
Phenol	mg/kg	1	50	20	180,000	ND (0.0074)
Pyrene	mg/kg	3,000	3,000	3,000	17,000	0.03J
Metals						
Aluminum	mg/kg	NV	NV	NV	990,000	5830
Antimony	mg/kg	30	30	30	410	ND (0.18)
Arsenic	mg/kg	20	20	20	1.6	3.2 [d]
Barium	mg/kg	3,000	3,000	3,000	190,000	18.5 J
Beryllium	mg/kg	200	200	200	2,000	ND (0.089) U
Cadmium	mg/kg	30	30	30	800	0.15 J

TABLE 3.6A

SURFACE SOIL ANALYTICAL RESULTS - FORMER SERVICE STATION - INSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:						*SS-SS1*
Sample ID:						*SS-15620-080409-RR-001*
Sample Date:						*8/4/2009*
Sample Depth:						*0-1 ft BGS*
		S-2/GW-1	*S-2/GW-2*	*S-2/GW-3*	*Industrial PRGs*	
		a	b	c	d	
Parameter	***Units***					
Calcium	mg/kg	NV	NV	NV	NV	669
Chromium	mg/kg	200	200	200	NV	7.2
Cobalt	mg/kg	NV	NV	NV	300	5.8
Copper	mg/kg	NV	NV	NV	41,000	6.2
Iron	mg/kg	NV	NV	NV	720,000	9860
Lead	mg/kg	300	300	300	800	10.0
Magnesium	mg/kg	NV	NV	NV	NV	1680
Manganese	mg/kg	NV	NV	NV	23,000	150
Mercury	mg/kg	30	30	30	34	0.080
Nickel	mg/kg	700	700	700	20,000	8.7
Potassium	mg/kg	NV	NV	NV	NV	387 J
Selenium	mg/kg	800	800	800	5,100	ND (0.33) U
Silver	mg/kg	200	200	200	5,100	ND (0.065)
Sodium	mg/kg	NV	NV	NV	NV	30.6 J
Thallium	mg/kg	60	60	60	NV	0.23 J
Vanadium	mg/kg	1,000	1,000	1,000	72	11.3
Zinc	mg/kg	3,000	3,000	3,000	310,000	30.3
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	NV	NV	NV	21	ND (0.0028)
Aroclor-1221 (PCB-1221)	mg/kg	NV	NV	NV	0.54	ND (0.0035)
Aroclor-1232 (PCB-1232)	mg/kg	NV	NV	NV	0.54	ND (0.0032)
Aroclor-1242 (PCB-1242)	mg/kg	NV	NV	NV	0.74	ND (0.003)
Aroclor-1248 (PCB-1248)	mg/kg	NV	NV	NV	0.74	ND (0.0018)
Aroclor-1254 (PCB-1254)	mg/kg	NV	NV	NV	0.74	ND (0.0026)
Aroclor-1260 (PCB-1260)	mg/kg	NV	NV	NV	0.74	ND (0.0026)
Total PCBs	mg/kg	3	3	3	0.74	ND (0.0035)
General Chemistry						
Total Solids	%					89.7

Notes:

J - Estimated.
ND - Non-detect at associated value.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
NV - No value.

TABLE 3.6B

SURFACE SOIL ANALYTICAL RESULTS - FORMER SERVICE STATION - OUTSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:					*SS-SS2*	*SS-SS3*	*SS-SS4*
Sample ID:					*SS-15620-080409-RR-002*	*SS-15620-080409-RR-003*	*SS-15620-080409-RR-004*
Sample Date:					*8/4/2009*	*8/4/2009*	*8/4/2009*
Sample Depth:					*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*
		S-2/GW-2	*S-2/GW-3*	*Industrial PRGs*			
Parameter		a	b	c			
	Units						
Volatiles							
1,1,1-Trichloroethane	mg/kg	600	1,000	38,000	ND (0.00058)	ND (0.00058)	ND (0.00047)
1,1,2,2-Tetrachloroethane	mg/kg	0.02	10	2.8	ND (0.00086)	ND (0.00085)	ND (0.0007)
1,1,2-Trichloroethane	mg/kg	2	60	5.3	ND (0.00099)	ND (0.00099)	ND (0.00081)
1,1-Dichloroethane	mg/kg	5	1,000	17	ND (0.00069)	ND (0.00068)	ND (0.00056)
1,1-Dichloroethene	mg/kg	40	1,000	1,100	ND (0.001)	ND (0.001)	ND (0.00083)
1,2,3-Trichlorobenzene	mg/kg	NV	NV	490	ND (0.001)	ND (0.001)	ND (0.00082)
1,2,4-Trichlorobenzene	mg/kg	70	900	99	ND (0.0011)	ND (0.001)	ND (0.00086)
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NV	NV	0.069	ND (0.00089)	ND (0.00089)	ND (0.00073)
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.1	4	0.17	ND (0.001)	ND (0.001)	ND (0.00084)
1,2-Dichlorobenzene	mg/kg	30	300	9,800	ND (0.00095)	ND (0.00095)	ND (0.00078)
1,2-Dichloroethane	mg/kg	0.1	90	2.2	ND (0.00073)	ND (0.00073)	ND (0.0006)
1,2-Dichloropropane	mg/kg	0.1	100	4.5	ND (0.00065)	ND (0.00064)	ND (0.00053)
1,3-Dichlorobenzene	mg/kg	40	500	NV	ND (0.00078)	ND (0.00078)	ND (0.00064)
1,4-Dichlorobenzene	mg/kg	4	300	12	ND (0.00076)	ND (0.00075)	ND (0.00062)
2-Butanone (Methyl Ethyl Ketone)	mg/kg	50	400	200,000	ND (0.0011)	ND (0.001)	ND (0.00086)
2-Hexanone	mg/kg	NV	NV	1,400	ND (0.00082)	ND (0.00082)	ND (0.00067)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	50	400	53,000	ND (0.00078)	ND (0.00077)	ND (0.00064)
Acetone	mg/kg	50	400	630,000	0.0097J	ND (0.0059) UJ	ND (0.0049) UJ
Benzene	mg/kg	200	200	5.4	ND (0.00081)	ND (0.0008)	ND (0.00066)
Bromodichloromethane	mg/kg	0.1	100	1.4	ND (0.00067)	ND (0.00067)	ND (0.00055)
Bromoform	mg/kg	1	800	220	ND (0.00053)	ND (0.00052)	ND (0.00043)
Bromomethane (Methyl Bromide)	mg/kg	0.5	30	32	ND (0.00088) UJ	ND (0.00088) UJ	ND (0.00072) UJ
Carbon disulfide	mg/kg	NV	NV	3,700	ND (0.00061)	ND (0.00061)	ND (0.0005)
Carbon tetrachloride	mg/kg	5	60	3	ND (0.00053)	ND (0.00053)	ND (0.00044)
Chlorobenzene	mg/kg	3	100	1,400	ND (0.0009)	ND (0.0009)	ND (0.00074)
Chloroethane	mg/kg	NV	NV	61,000	ND (0.0018)	ND (0.0018)	ND (0.0015)
Chloroform (Trichloromethane)	mg/kg	0.3	800	1.5	ND (0.0007)	ND (0.00069)	ND (0.00057)
Chloromethane (Methyl Chloride)	mg/kg	NV	NV	500	ND (0.001) UJ	ND (0.001) UJ	ND (0.00083) UJ
cis-1,2-Dichloroethene	mg/kg	0.4	500	10,000	ND (0.00084)	ND (0.00083)	ND (0.00069)
cis-1,3-Dichloropropene	mg/kg	NV	NV	NV	ND (0.00081)	ND (0.0008)	ND (0.00066)
Cyclohexane	mg/kg	NV	NV	29,000	ND (0.00044)	ND (0.00044)	ND (0.00036)
Dibromochloromethane	mg/kg	0.03	100	3.3	ND (0.00085)	ND (0.00084)	ND (0.00069)
Dichlorodifluoromethane (CFC-12)	mg/kg	NV	NV	780	ND (0.00079)	ND (0.00079)	ND (0.00065)
Ethylbenzene	mg/kg	1,000	1,000	27	ND (0.00077)	ND (0.00076)	ND (0.00063)
Isopropylbenzene	mg/kg	NV	NV	11,000	ND (0.00081)	ND (0.0008)	ND (0.00066)
Methyl acetate	mg/kg	NV	NV	1,000,000	ND (0.0011)	ND (0.0011)	ND (0.00088)
Methyl cyclohexane	mg/kg	NV	NV	NV	ND (0.00087)	ND (0.00086)	ND (0.00071)
Methyl Tert Butyl Ether	mg/kg	100	500	220	ND (0.00089)	ND (0.00089)	ND (0.00073)
Methylene chloride	mg/kg	20	900	53	ND (0.0008)	ND (0.0008)	ND (0.00066)
Styrene	mg/kg	4	200	36,000	ND (0.00084)	ND (0.00084)	ND (0.00069)
Tetrachloroethene	mg/kg	10	200	2.6	ND (0.00081)	ND (0.00081)	ND (0.00066)
Toluene	mg/kg	1,000	1,000	45,000	ND (0.00087)	ND (0.00086)	ND (0.00071)

TABLE 3.6B

SURFACE SOIL ANALYTICAL RESULTS - FORMER SERVICE STATION - OUTSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:					*SS-SS2*	*SS-SS3*	*SS-SS4*
Sample ID:					*SS-15620-080409-RR-002*	*SS-15620-080409-RR-003*	*SS-15620-080409-RR-004*
Sample Date:					*8/4/2009*	*8/4/2009*	*8/4/2009*
Sample Depth:					*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*
		S-2/GW-2	*S-2/GW-3*	*Industrial PRGs*			
Parameter		a	b	c			
	Units						
trans-1,2-Dichloroethene	mg/kg	1	1,000	690	ND (0.00071)	ND (0.00071)	ND (0.00058)
trans-1,3-Dichloropropene	mg/kg	NV	NV	NV	ND (0.00071)	ND (0.00071)	ND (0.00058)
Trichloroethene	mg/kg	2	700	14	ND (0.00079)	ND (0.00078)	ND (0.00064)
Trichlorofluoromethane (CFC-11)	mg/kg	NV	NV	3,400	ND (0.0011)	ND (0.0011)	ND (0.0009)
Trifluorotrichloroethane (Freon 113)	mg/kg	NV	NV	180,000	ND (0.0013)	ND (0.0013)	ND (0.001)
Vinyl chloride	mg/kg	0.7	4	1.7	ND (0.00056)	ND (0.00056)	ND (0.00046)
Xylene (total)	mg/kg	300	1,000	2,700	ND (0.0027)	ND (0.0027)	ND (0.0022)
Semi-Volatiles							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	NV	NV	22	ND (0.0086)	ND (0.0082)	ND (0.0083)
2,4,5-Trichlorophenol	mg/kg	1,000	600	62,000	ND (0.0049)	ND (0.0046)	ND (0.0047)
2,4,6-Trichlorophenol	mg/kg	20	20	160	ND (0.0098)	ND (0.0094)	ND (0.0094)
2,4-Dichlorophenol	mg/kg	60	40	1,800	ND (0.008)	ND (0.0076)	ND (0.0077)
2,4-Dimethylphenol	mg/kg	100	1,000	12,000	ND (0.0083)	ND (0.0079)	ND (0.0079)
2,4-Dinitrophenol	mg/kg	50	90	1,200	ND (0.063) UJ	ND (0.061) UJ	ND (0.061) UJ
2,4-Dinitrotoluene	mg/kg	10	10	5.5	ND (0.0092)	ND (0.0088)	0.011J
2,6-Dinitrotoluene	mg/kg	NV	NV	620	ND (0.01)	ND (0.0096)	ND (0.0097)
2-Chloronaphthalene	mg/kg	NV	NV	82,000	ND (0.0053)	ND (0.0051)	ND (0.0051)
2-Chlorophenol	mg/kg	100	300	5,100	ND (0.0061)	ND (0.0058)	ND (0.0058)
2-Methylnaphthalene	mg/kg	80	500	4,100	0.013J	ND (0.0074)	0.027J
2-Methylphenol	mg/kg	NV	NV	31,000	ND (0.0073)	ND (0.007)	ND (0.007)
2-Nitroaniline	mg/kg	NV	NV	6,000	ND (0.012)	ND (0.012)	ND (0.012)
2-Nitrophenol	mg/kg	NV	NV	NV	ND (0.0075)	ND (0.0072)	ND (0.0072)
3,3'-Dichlorobenzidine	mg/kg	10	10	3.8	ND (0.037)	ND (0.036)	ND (0.036)
3-Nitroaniline	mg/kg	NV	NV	NV	ND (0.0064)	ND (0.0062)	ND (0.0062)
4,6-Dinitro-2-methylphenol	mg/kg	NV	NV	49	ND (0.19) UJ	ND (0.18) UJ	ND (0.18) UJ
4-Bromophenyl phenyl ether	mg/kg	NV	NV	NV	ND (0.0084)	ND (0.008)	ND (0.0081)
4-Chloro-3-methylphenol	mg/kg	NV	NV	62,000	ND (0.0059)	ND (0.0056)	ND (0.0056)
4-Chloroaniline	mg/kg	100	3	8.6	ND (0.0061)	ND (0.0058)	ND (0.0059)
4-Chlorophenyl phenyl ether	mg/kg	NV	NV	NV	ND (0.0087)	ND (0.0083)	ND (0.0084)
4-Methylphenol	mg/kg	NV	NV	3,100	ND (0.0087)	ND (0.0083)	0.025J
4-Nitroaniline	mg/kg	NV	NV	86	ND (0.0096)	ND (0.0092)	ND (0.0093)
4-Nitrophenol	mg/kg	NV	NV	NV	ND (0.12)	ND (0.11)	ND (0.11)
Acenaphthene	mg/kg	3,000	3,000	33,000	0.0077J	ND (0.006)	ND (0.0061)
Acenaphthylene	mg/kg	600	10	NV	0.043	0.012J	0.051
Acetophenone	mg/kg	NV	NV	100,000	ND (0.0091)	ND (0.0087)	0.021J
Aniline	mg/kg	NV	NV	300	ND (0.0086)	ND (0.0082)	ND (0.0083)
Anthracene	mg/kg	3,000	3,000	170,000	0.046	0.036J	0.032J
Atrazine	mg/kg	NV	NV	7.5	ND (0.0093)	ND (0.0089)	ND (0.009)
Benzaldehyde	mg/kg	NV	NV	100,000	0.13J	0.12J	0.13J
Benzo(a)anthracene	mg/kg	40	40	2.1	0.24	0.04	0.049
Benzo(a)pyrene	mg/kg	4	4	0.21	0.24[c]	0.044	0.056
Benzo(b)fluoranthene	mg/kg	40	40	2.1	0.41	0.068	0.14

TABLE 3.6B

SURFACE SOIL ANALYTICAL RESULTS - FORMER SERVICE STATION - OUTSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:					*SS-SS2*	*SS-SS3*	*SS-SS4*
Sample ID:					*SS-15620-080409-RR-002*	*SS-15620-080409-RR-003*	*SS-15620-080409-RR-004*
Sample Date:					*8/4/2009*	*8/4/2009*	*8/4/2009*
Sample Depth:					*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*
		S-2/GW-2	*S-2/GW-3*	*Industrial PRGs*			
Parameter		a	b	c			
	Units						
Benzo(g,h,i)perylene	mg/kg	3,000	3,000	NV	0.21	0.046	0.14
Benzo(k)fluoranthene	mg/kg	400	400	21	ND (0.0082)	ND (0.0078)	ND (0.0079)
Biphenyl (1,1-Biphenyl)	mg/kg	6	3,000	51,000	ND (0.009)	ND (0.0086)	ND (0.0086)
bis(2-Chloroethoxy)methane	mg/kg	NV	NV	1,800	ND (0.0079)	ND (0.0076)	ND (0.0076)
bis(2-Chloroethyl)ether	mg/kg	0.7	3	1.0	ND (0.0035)	ND (0.0033)	ND (0.0033)
bis(2-Ethylhexyl)phthalate	mg/kg	700	700	120	0.14J	0.034J	0.062J
Butyl benzylphthalate	mg/kg	NV	NV	910	0.061J	0.048J	0.12J
Caprolactam	mg/kg	NV	NV	310,000	ND (0.026)	ND (0.025)	0.13J
Carbazole	mg/kg	NV	NV	NV	0.028J	ND (0.0049)	0.014J
Chrysene	mg/kg	400	400	210	0.32	0.051	0.13
Dibenz(a,h)anthracene	mg/kg	4	4	0.21	0.041	ND (0.0083)	0.022J
Dibenzofuran	mg/kg	NV	NV	1,000	0.01J	ND (0.0064)	ND (0.0064)
Diethyl phthalate	mg/kg	200	300	490,000	ND (0.011)	ND (0.011)	ND (0.011)
Dimethyl phthalate	mg/kg	50	600	NV	ND (0.0066)	ND (0.0063)	ND (0.0064)
Di-n-butylphthalate	mg/kg	NV	NV	62,000	ND (0.011)	0.011J	0.023J
Di-n-octyl phthalate	mg/kg	NV	NV	NV	ND (0.0051)	ND (0.0048)	ND (0.0049)
Fluoranthene	mg/kg	3,000	3,000	22,000	0.52	0.057	0.079
Fluorene	mg/kg	3,000	3,000	22,000	ND (0.0059)	ND (0.0057)	ND (0.0057)
Hexachlorobenzene	mg/kg	5	5	1.1	ND (0.0075)	ND (0.0071)	ND (0.0072)
Hexachlorobutadiene	mg/kg	90	90	22	ND (0.0084)	ND (0.008)	ND (0.008)
Hexachlorocyclopentadiene	mg/kg	NV	NV	3,700	ND (0.0075) UJ	ND (0.0072) UJ	ND (0.0072) UJ
Hexachloroethane	mg/kg	3	100	120	ND (0.0067)	ND (0.0064)	ND (0.0064)
Indeno(1,2,3-cd)pyrene	mg/kg	40	40	2.1	0.16	0.037J	0.094
Isophorone	mg/kg	NV	NV	1,800	ND (0.0077)	ND (0.0073)	ND (0.0074)
Naphthalene	mg/kg	40	1,000	18	0.018J	0.015J	0.067
Nitrobenzene	mg/kg	NV or 40	NV or 40	24	ND (0.0099)	ND (0.0095)	0.066
N-Nitrosodi-n-propylamine	mg/kg	NV	NV	0.25	ND (0.011)	ND (0.01)	ND (0.011)
N-Nitrosodiphenylamine	mg/kg	NV	NV	350	ND (0.0081)	ND (0.0077)	ND (0.0078)
Pentachlorophenol	mg/kg	70	10	9.0	ND (0.034)	ND (0.033)	ND (0.033)
Phenanthrene	mg/kg	1,000	1,000	NV	0.2	0.032J	0.047
Phenol	mg/kg	50	20	180,000	ND (0.0078)	ND (0.0075)	ND (0.0075)
Pyrene	mg/kg	3,000	3,000	17,000	0.41	0.058	0.073
Metals							
Aluminum	mg/kg	NV	NV	990,000	8730	6910	5790
Antimony	mg/kg	30	30	410	ND (0.19)	0.30 J	0.19 J
Arsenic	mg/kg	20	20	1.6	4.3	6.3	6.3
Barium	mg/kg	3,000	3,000	190,000	23.3 J	27.5	100
Beryllium	mg/kg	200	200	2,000	ND (0.074) U	ND (0.14) U	ND (0.062) U
Cadmium	mg/kg	30	30	800	0.11 J	0.14 J	0.21 J
Calcium	mg/kg	NV	NV	NV	1120	743	855
Chromium	mg/kg	200	200	NV	10.3	72.1	16.7
Cobalt	mg/kg	NV	NV	300	4.2 J	7.9	4.5 J

TABLE 3.6B

SURFACE SOIL ANALYTICAL RESULTS - FORMER SERVICE STATION - OUTSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:					*SS-SS2*	*SS-SS3*	*SS-SS4*
Sample ID:					*SS-15620-080409-RR-002*	*SS-15620-080409-RR-003*	*SS-15620-080409-RR-004*
Sample Date:					*8/4/2009*	*8/4/2009*	*8/4/2009*
Sample Depth:					*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*
		S-2/GW-2	*S-2/GW-3*	*Industrial PRGs*			
Parameter		a	b	c			
	Units						
Copper	mg/kg	NV	NV	41,000	8.4	12.5	28.1
Iron	mg/kg	NV	NV	720,000	10700	13400	14200
Lead	mg/kg	300	300	800	34.9	368 [ab]	218
Magnesium	mg/kg	NV	NV	NV	1590	1980	2110
Manganese	mg/kg	NV	NV	23,000	150	315	191
Mercury	mg/kg	30	30	34	0.19	0.27	2.8
Nickel	mg/kg	700	700	20,000	8.4	9.3	10.6
Potassium	mg/kg	NV	NV	NV	588 J	611	596
Selenium	mg/kg	800	800	5,100	ND (0.39) U	ND (0.23)	ND (0.37) U
Silver	mg/kg	200	200	5,100	ND (0.069)	ND (0.065)	0.066 J
Sodium	mg/kg	NV	NV	NV	55.6 J	37.3 J	36.8 J
Thallium	mg/kg	60	60	NV	ND (0.24)	0.28 J	0.37 J
Vanadium	mg/kg	1,000	1,000	72	16.9	12.6	14.9
Zinc	mg/kg	3,000	3,000	310,000	29.8	31.4	42.8
PCBs							
Aroclor-1016 (PCB-1016)	mg/kg	NV	NV	21	ND (0.0029)	ND (0.0028)	ND (0.0028)
Aroclor-1221 (PCB-1221)	mg/kg	NV	NV	0.54	ND (0.0038)	ND (0.0036)	ND (0.0036)
Aroclor-1232 (PCB-1232)	mg/kg	NV	NV	0.54	ND (0.0034)	ND (0.0032)	ND (0.0032)
Aroclor-1242 (PCB-1242)	mg/kg	NV	NV	0.74	ND (0.0032)	ND (0.0031)	ND (0.0031)
Aroclor-1248 (PCB-1248)	mg/kg	NV	NV	0.74	ND (0.0019)	ND (0.0018)	0.26
Aroclor-1254 (PCB-1254)	mg/kg	NV	NV	0.74	ND (0.0028)	0.013J	0.2
Aroclor-1260 (PCB-1260)	mg/kg	NV	NV	0.74	ND (0.0028)	ND (0.0027)	0.11
Total PCBs	mg/kg	3	3	0.74	ND (0.0038)	0.013J	0.57
General Chemistry							
Total Solids	%				84.6	88.6	88.2

Notes:

J - Estimated.
ND - Non-detect at associated value.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
NV - No value.

TABLE 3.6C

SURFACE SOIL ANALYTICAL RESULTS - ENCAPSULATED LAGOON - INSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:						*SS-L3*
Sample ID:						*SS-15620-080509-RR-011*
Sample Date:						*8/5/2009*
Sample Depth:						*0-1 ft BGS*
		S-2/GW-1	*S-2/GW-2*	*S-2/GW-3*	*Industrial PRGs*	
		a	b	c	d	
Parameter	*Unit*					
Volatiles						
1,1,1-Trichloroethane	mg/kg	30	600	1,000	38,000	ND (0.00059)
1,1,2,2-Tetrachloroethane	mg/kg	0.005	0.02	10	2.8	ND (0.00087)
1,1,2-Trichloroethane	mg/kg	0.1	2	60	5.3	ND (0.001)
1,1-Dichloroethane	mg/kg	0.4	5	1,000	17	ND (0.0007)
1,1-Dichloroethene	mg/kg	3	40	1,000	1,100	ND (0.001)
1,2,3-Trichlorobenzene	mg/kg	NV	NV	NV	490	ND (0.006) U
1,2,4-Trichlorobenzene	mg/kg	2	70	900	99	0.0076
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NV	NV	NV	0.069	ND (0.00091)
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.1	0.1	4	0.17	ND (0.001)
1,2-Dichlorobenzene	mg/kg	9	30	300	9,800	0.0016J
1,2-Dichloroethane	mg/kg	0.1	0.1	90	2.2	ND (0.00074)
1,2-Dichloropropane	mg/kg	0.1	0.1	100	4.5	ND (0.00066)
1,3-Dichlorobenzene	mg/kg	1	40	500	NV	0.0031J
1,4-Dichlorobenzene	mg/kg	0.7	4	300	12	0.0032J
2-Butanone (Methyl Ethyl Ketone)	mg/kg	4	50	400	200,000	ND (0.0011) UJ
2-Hexanone	mg/kg	NV	NV	NV	1,400	ND (0.00084)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	0.4	50	400	53,000	ND (0.00079)
Acetone	mg/kg	6	50	400	630,000	ND (0.0061)
Benzene	mg/kg	2	200	200	5.4	ND (0.00082)
Bromodichloromethane	mg/kg	0.1	0.1	100	1.4	ND (0.00068)
Bromoform	mg/kg	0.1	1	800	220	ND (0.00054)
Bromomethane (Methyl Bromide)	mg/kg	0.5	0.5	30	32	ND (0.0009) UJ
Carbon disulfide	mg/kg	NV	NV	NV	3,700	ND (0.00062)
Carbon tetrachloride	mg/kg	10	5	60	3	ND (0.00054)
Chlorobenzene	mg/kg	1	3	100	1,400	ND (0.00092)
Chloroethane	mg/kg	NV	NV	NV	61,000	ND (0.0019)
Chloroform (Trichloromethane)	mg/kg	0.4	0.3	800	1.5	ND (0.00071)
Chloromethane (Methyl Chloride)	mg/kg	NV	NV	NV	500	ND (0.001)
cis-1,2-Dichloroethene	mg/kg	0.3	0.4	500	10,000	ND (0.00085)
cis-1,3-Dichloropropene	mg/kg	NV	NV	NV	NV	ND (0.00082)
Cyclohexane	mg/kg	NV	NV	NV	29,000	ND (0.00045)
Dibromochloromethane	mg/kg	0.005	0.03	100	3.3	ND (0.00086)
Dichlorodifluoromethane (CFC-12)	mg/kg	NV	NV	NV	780	ND (0.00081) UJ
Ethylbenzene	mg/kg	40	1,000	1,000	27	ND (0.00078)
Isopropylbenzene	mg/kg	NV	NV	NV	11,000	ND (0.00082)
Methyl acetate	mg/kg	NV	NV	NV	1,000,000	ND (0.0011)
Methyl cyclohexane	mg/kg	NV	NV	NV	NV	ND (0.00088)
Methyl Tert Butyl Ether	mg/kg	0.1	100	500	220	ND (0.00091)
Methylene chloride	mg/kg	0.1	20	900	53	ND (0.00082)
Styrene	mg/kg	3	4	200	36,000	ND (0.00086)
Tetrachloroethene	mg/kg	1	10	200	2.6	ND (0.00083)

TABLE 3.6C

SURFACE SOIL ANALYTICAL RESULTS - ENCAPSULATED LAGOON - INSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:						***SS-L3***
Sample ID:						***SS-15620-080509-RR-011***
Sample Date:						***8/5/2009***
Sample Depth:						***0-1 ft BGS***
		S-2/GW-1	*S-2/GW-2*	*S-2/GW-3*	***Industrial PRGs***	
		a	b	c	d	
Parameter	***Unit***					
Toluene	mg/kg	30	1,000	1,000	45,000	0.0024J
trans-1,2-Dichloroethene	mg/kg	1	1	1,000	690	ND (0.00072)
trans-1,3-Dichloropropene	mg/kg	NV	NV	NV	NV	ND (0.00073)
Trichloroethene	mg/kg	0.3	2	700	14	ND (0.0008)
Trichlorofluoromethane (CFC-11)	mg/kg	NV	NV	NV	3,400	ND (0.0011)
Trifluorotrichloroethane (Freon 113)	mg/kg	NV	NV	NV	180,000	ND (0.0013)
Vinyl chloride	mg/kg	0.9	0.7	4	1.7	ND (0.00057)
Xylene (total)	mg/kg	400	300	1,000	2,700	ND (0.0027)
Semi-Volatiles						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	NV	NV	NV	22	ND (0.0087)
2,4,5-Trichlorophenol	mg/kg	4	1,000	600	62,000	ND (0.0049)
2,4,6-Trichlorophenol	mg/kg	0.7	20	20	160	ND (0.0099)
2,4-Dichlorophenol	mg/kg	0.7	60	40	1,800	ND (0.0081)
2,4-Dimethylphenol	mg/kg	0.7	100	1,000	12,000	ND (0.0083)
2,4-Dinitrophenol	mg/kg	3	50	90	1,200	0.28J
2,4-Dinitrotoluene	mg/kg	0.7	10	10	5.5	ND (0.0093)
2,6-Dinitrotoluene	mg/kg	NV	NV	NV	620	ND (0.01)
2-Chloronaphthalene	mg/kg	NV	NV	NV	82,000	0.025J
2-Chlorophenol	mg/kg	0.7	100	300	5,100	ND (0.0061)
2-Methylnaphthalene	mg/kg	0.7	80	500	4,100	ND (0.0078)
2-Methylphenol	mg/kg	NV	NV	NV	31,000	ND (0.0073)
2-Nitroaniline	mg/kg	NV	NV	NV	6,000	ND (0.012)
2-Nitrophenol	mg/kg	NV	NV	NV	NV	ND (0.0076)
3,3'-Dichlorobenzidine	mg/kg	10	10	10	3.8	ND (0.037)
3-Nitroaniline	mg/kg	NV	NV	NV	NV	ND (0.0065)
4,6-Dinitro-2-methylphenol	mg/kg	NV	NV	NV	49	ND (0.19) UJ
4-Bromophenyl phenyl ether	mg/kg	NV	NV	NV	NV	ND (0.0084)
4-Chloro-3-methylphenol	mg/kg	NV	NV	NV	62,000	ND (0.0059)
4-Chloroaniline	mg/kg	1	100	3	8.6	ND (0.0061)
4-Chlorophenyl phenyl ether	mg/kg	NV	NV	NV	NV	ND (0.0088)
4-Methylphenol	mg/kg	NV	NV	NV	3,100	0.039J
4-Nitroaniline	mg/kg	NV	NV	NV	86	ND (0.0097)
4-Nitrophenol	mg/kg	NV	NV	NV	NV	ND (0.12)
Acenaphthene	mg/kg	4	3,000	3,000	33,000	ND (0.0064)
Acenaphthylene	mg/kg	1	600	10	NV	ND (0.0079)
Acetophenone	mg/kg	NV	NV	NV	100,000	ND (0.0092)
Aniline	mg/kg	NV	NV	NV	300	0.073J
Anthracene	mg/kg	3,000	3,000	3,000	170,000	ND (0.007)
Atrazine	mg/kg	NV	NV	NV	7.5	ND (0.0094)
Benzaldehyde	mg/kg	NV	NV	NV	100,000	0.13J
Benzo(a)anthracene	mg/kg	40	40	40	2.1	ND (0.0063)

TABLE 3.6C

SURFACE SOIL ANALYTICAL RESULTS - ENCAPSULATED LAGOON - INSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:						*SS-L3*
Sample ID:						*SS-15620-080509-RR-011*
Sample Date:						*8/5/2009*
Sample Depth:						*0-1 ft BGS*
		S-2/GW-1	*S-2/GW-2*	*S-2/GW-3*	*Industrial PRGs*	
		a	b	c	d	
Parameter	***Unit***					
Benzo(a)pyrene	mg/kg	4	4	4	0.21	0.032J
Benzo(b)fluoranthene	mg/kg	40	40	40	2.1	0.024J
Benzo(g,h,i)perylene	mg/kg	3,000	3,000	3,000	NV	ND (0.0029)
Benzo(k)fluoranthene	mg/kg	400	400	400	21	ND (0.0083)
Biphenyl (1,1-Biphenyl)	mg/kg	0.05	6	3,000	51,000	ND (0.009)
bis(2-Chloroethoxy)methane	mg/kg	NV	NV	NV	1,800	ND (0.008)
bis(2-Chloroethyl)ether	mg/kg	0.7	0.7	3	1.0	0.14
bis(2-Ethylhexyl)phthalate	mg/kg	700	700	700	120	0.03J
Butyl benzylphthalate	mg/kg	NV	NV	NV	910	0.018J
Caprolactam	mg/kg	NV	NV	NV	310,000	ND (0.026)
Carbazole	mg/kg	NV	NV	NV	NV	ND (0.0052)
Chrysene	mg/kg	400	400	400	210	ND (0.0069)
Dibenz(a,h)anthracene	mg/kg	4	4	4	0.21	ND (0.0087)
Dibenzofuran	mg/kg	NV	NV	NV	1,000	ND (0.0067)
Diethyl phthalate	mg/kg	10	200	300	490,000	ND (0.011)
Dimethyl phthalate	mg/kg	30	50	600	NV	ND (0.0067)
Di-n-butylphthalate	mg/kg	NV	NV	NV	62,000	ND (0.011)
Di-n-octyl phthalate	mg/kg	NV	NV	NV	NV	ND (0.0051)
Fluoranthene	mg/kg	3,000	3,000	3,000	22,000	0.018J
Fluorene	mg/kg	3,000	3,000	3,000	22,000	ND (0.006)
Hexachlorobenzene	mg/kg	5	5	5	1.1	ND (0.0075)
Hexachlorobutadiene	mg/kg	90	90	90	22	ND (0.0084)
Hexachlorocyclopentadiene	mg/kg	NV	NV	NV	3,700	ND (0.0075) UJ
Hexachloroethane	mg/kg	0.7	3	100	120	ND (0.0067)
Indeno(1,2,3-cd)pyrene	mg/kg	40	40	40	2.1	ND (0.0022)
Isophorone	mg/kg	NV	NV	NV	1,800	ND (0.0077)
Naphthalene	mg/kg	4	40	1,000	18	0.14
Nitrobenzene	mg/kg	NV	NV	NV	24	0.21
N-Nitrosodi-n-propylamine	mg/kg	NV	NV	NV	0.25	ND (0.011)
N-Nitrosodiphenylamine	mg/kg	NV	NV	NV	350	ND (0.0081)
Pentachlorophenol	mg/kg	3	70	10	9.0	ND (0.034)
Phenanthrene	mg/kg	10	1,000	1,000	NV	0.011J
Phenol	mg/kg	1	50	20	180,000	0.033J
Pyrene	mg/kg	3,000	3,000	3,000	17,000	0.016J
Metals						
Aluminum	mg/kg	NV	NV	NV	990,000	7140
Antimony	mg/kg	30	30	30	410	ND (0.20)
Arsenic	mg/kg	20	20	20	1.6	6.6 [d]
Barium	mg/kg	3,000	3,000	3,000	190,000	30.3
Beryllium	mg/kg	200	200	200	2,000	ND (0.11) U
Cadmium	mg/kg	30	30	30	800	0.12 J

TABLE 3.6C

SURFACE SOIL ANALYTICAL RESULTS - ENCAPSULATED LAGOON - INSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:						*SS-L3*
Sample ID:						*SS-15620-080509-RR-011*
Sample Date:						*8/5/2009*
Sample Depth:						*0-1 ft BGS*
		S-2/GW-1	*S-2/GW-2*	*S-2/GW-3*	*Industrial PRGs*	
		a	b	c	d	
Parameter	***Unit***					
Calcium	mg/kg	NV	NV	NV	NV	1120
Chromium	mg/kg	200	200	200	NV	16.7
Cobalt	mg/kg	NV	NV	NV	300	6.8
Copper	mg/kg	NV	NV	NV	41,000	83.4
Iron	mg/kg	NV	NV	NV	720,000	14500
Lead	mg/kg	300	300	300	800	49.6
Magnesium	mg/kg	NV	NV	NV	NV	2450
Manganese	mg/kg	NV	NV	NV	23,000	254
Mercury	mg/kg	30	30	30	34	12.1
Nickel	mg/kg	700	700	700	20,000	17.8
Potassium	mg/kg	NV	NV	NV	NV	625
Selenium	mg/kg	800	800	800	5,100	ND (0.25)
Silver	mg/kg	200	200	200	5,100	ND (0.069)
Sodium	mg/kg	NV	NV	NV	NV	145 J
Thallium	mg/kg	60	60	60	NV	0.29 J
Vanadium	mg/kg	1,000	1,000	1,000	72	10.9
Zinc	mg/kg	3,000	3,000	3,000	310,000	55.8
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	NV	NV	NV	21	ND (0.003)
Aroclor-1221 (PCB-1221)	mg/kg	NV	NV	NV	0.54	ND (0.0038)
Aroclor-1232 (PCB-1232)	mg/kg	NV	NV	NV	0.54	ND (0.0034)
Aroclor-1242 (PCB-1242)	mg/kg	NV	NV	NV	0.74	ND (0.0032)
Aroclor-1248 (PCB-1248)	mg/kg	NV	NV	NV	0.74	3.3 [d]
Aroclor-1254 (PCB-1254)	mg/kg	NV	NV	NV	0.74	1.1 [d]
Aroclor-1260 (PCB-1260)	mg/kg	NV	NV	NV	0.74	0.22
Total PCBs	mg/kg	3	3	3	0.74	4.62 [abcd]
General Chemistry						
Total Solids	%					84.0

Notes:

J - Estimated.
ND - Non-detect at associated value.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.

TABLE 3.6D

SURFACE SOIL ANALYTICAL RESULTS - ENCAPSULATED LAGOON - OUTSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:					*SS-L1*	*SS-L2*	*SS-L4*	*SS-L5*	*SS-L6*
Sample ID:					*SS-15620-080509-RR-012*	*SS-15620-080509-RR-010*	*SS-15620-080509-RR-009*	*SS-15620-080509-RR-008*	*SS-15620-080509-RR-007*
Sample Date:					*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*
Sample Depth:					*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*
Parameter	*Unit*	*S-2/GW-2* a	*S-2/GW-3* b	*Industrial PRGs* c					
Volatiles									
1,1,1-Trichloroethane	mg/kg	600	1,000	38,000	ND (0.00062)	ND (0.55)	ND (0.00046)	ND (0.00058)	ND (0.0005)
1,1,2,2-Tetrachloroethane	mg/kg	0.02	10	2.8	ND (0.00091)	ND (0.5)	ND (0.00068)	ND (0.00085)	ND (0.00074)
1,1,2-Trichloroethane	mg/kg	2	60	5.3	ND (0.0011)	ND (0.62)	ND (0.00079)	ND (0.00099)	ND (0.00086)
1,1-Dichloroethane	mg/kg	5	1,000	17	ND (0.00073)	ND (0.54)	ND (0.00055)	ND (0.00068)	ND (0.00059)
1,1-Dichloroethene	mg/kg	40	1,000	1,100	ND (0.0011)	ND (0.57)	ND (0.0008)	ND (0.001)	0.0016J
1,2,3-Trichlorobenzene	mg/kg	NV	NV	490	ND (0.0018) U	59J	ND (0.0008) U	0.016	0.016
1,2,4-Trichlorobenzene	mg/kg	70	900	99	0.0021J	94J [a]	ND (0.00084) U	0.01	0.01
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NV	NV	0.069	ND (0.00095)	ND (0.19)	ND (0.00071)	ND (0.00089)	ND (0.00077)
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.1	4	0.17	ND (0.0011)	ND (0.33)	ND (0.00082)	ND (0.001)	ND (0.00089)
1,2-Dichlorobenzene	mg/kg	30	300	9,800	ND (0.001)	23	ND (0.00076)	0.0015J	0.0018J
1,2-Dichloroethane	mg/kg	0.1	90	2.2	ND (0.00078)	ND (0.51)	ND (0.00058)	ND (0.00073)	ND (0.00063)
1,2-Dichloropropane	mg/kg	0.1	100	4.5	ND (0.00069)	ND (0.68)	ND (0.00052)	ND (0.00065)	ND (0.00056)
1,3-Dichlorobenzene	mg/kg	40	500	NV	ND (0.00083)	0.38J	ND (0.00062)	ND (0.00078)	ND (0.00068)
1,4-Dichlorobenzene	mg/kg	4	300	12	ND (0.00081)	2.9	ND (0.0006)	0.0011J	0.00098J
2-Butanone (Methyl Ethyl Ketone)	mg/kg	50	400	200,000	ND (0.0011) UJ	ND (0.58) UJ	ND (0.00084)	ND (0.001)	ND (0.00091)
2-Hexanone	mg/kg	NV	NV	1,400	ND (0.00087)	ND (0.3)	ND (0.00065)	ND (0.00082)	ND (0.00071)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	50	400	53,000	ND (0.00083)	ND (0.32)	ND (0.00062)	ND (0.00078)	ND (0.00067)
Acetone	mg/kg	50	400	630,000	ND (0.0063)	ND (2.7) UJ	0.0061J	ND (0.0059) UJ	0.0059J
Benzene	mg/kg	200	200	5.4	ND (0.00085)	ND (0.53)	ND (0.00064)	ND (0.0008)	ND (0.00069)
Bromodichloromethane	mg/kg	0.1	100	1.4	ND (0.00071)	ND (0.5)	ND (0.00053)	ND (0.00067)	ND (0.00058)
Bromoform	mg/kg	1	800	220	ND (0.00056)	ND (0.57) UJ	ND (0.00042)	ND (0.00053)	ND (0.00046)
Bromomethane (Methyl Bromide)	mg/kg	0.5	30	32	ND (0.00094) UJ	ND (0.84) UJ	ND (0.0007) UJ	ND (0.00088) UJ	ND (0.00076) UJ
Carbon disulfide	mg/kg	NV	NV	3,700	ND (0.00065)	ND (0.57)	ND (0.00049)	ND (0.00061)	ND (0.00053)
Carbon tetrachloride	mg/kg	5	60	3	ND (0.00057)	ND (0.58)	ND (0.00042)	ND (0.00053)	ND (0.00046)
Chlorobenzene	mg/kg	3	100	1,400	ND (0.00096)	14 [a]	0.0016J	ND (0.0009)	0.0022J
Chloroethane	mg/kg	NV	NV	61,000	ND (0.002)	ND (0.4)	ND (0.0015)	ND (0.0018)	ND (0.0016)
Chloroform (Trichloromethane)	mg/kg	0.3	800	1.5	ND (0.00074)	ND (0.54)	ND (0.00055)	ND (0.0007)	ND (0.0006)
Chloromethane (Methyl Chloride)	mg/kg	NV	NV	500	ND (0.0011)	ND (0.5)	ND (0.00081) UJ	ND (0.001) UJ	ND (0.00088) UJ
cis-1,2-Dichloroethene	mg/kg	0.4	500	10,000	ND (0.00089)	ND (0.36)	ND (0.00067)	ND (0.00084)	ND (0.00072)
cis-1,3-Dichloropropene	mg/kg	NV	NV	NV	ND (0.00086)	ND (0.39)	ND (0.00064)	ND (0.00081)	ND (0.0007)
Cyclohexane	mg/kg	NV	NV	29,000	ND (0.00047)	ND (0.32)	ND (0.00035)	ND (0.00044)	ND (0.00038)
Dibromochloromethane	mg/kg	0.03	100	3.3	ND (0.0009)	ND (0.35) UJ	ND (0.00067)	ND (0.00084)	ND (0.00073)
Dichlorodifluoromethane (CFC-12)	mg/kg	NV	NV	780	ND (0.00084) UJ	ND (0.34) UJ	ND (0.00063)	ND (0.00079)	ND (0.00068)
Ethylbenzene	mg/kg	1,000	1,000	27	ND (0.00081)	ND (0.33)	ND (0.00061)	ND (0.00076)	ND (0.00066)
Isopropylbenzene	mg/kg	NV	NV	11,000	ND (0.00086)	ND (0.28)	ND (0.00064)	ND (0.00081)	ND (0.0007)
Methyl acetate	mg/kg	NV	NV	1,000,000	ND (0.0011)	ND (0.66)	ND (0.00085)	0.0088	0.0093
Methyl cyclohexane	mg/kg	NV	NV	NV	ND (0.00092)	ND (0.3)	ND (0.00069)	ND (0.00086)	ND (0.00075)
Methyl Tert Butyl Ether	mg/kg	100	500	220	ND (0.00095)	ND (0.55)	ND (0.00071) UJ	ND (0.00089) UJ	ND (0.00077) UJ
Methylene chloride	mg/kg	20	900	53	ND (0.00085)	ND (0.58)	ND (0.00064)	ND (0.0008)	ND (0.00069)
Styrene	mg/kg	4	200	36,000	ND (0.00089)	ND (0.34)	ND (0.00067)	ND (0.00084)	ND (0.00073)
Tetrachloroethene	mg/kg	10	200	2.6	ND (0.00086)	ND (0.44)	ND (0.00065)	ND (0.00081)	ND (0.0007)
Toluene	mg/kg	1,000	1,000	45,000	ND (0.00092)	21	ND (0.00069)	ND (0.00087)	0.017
trans-1,2-Dichloroethene	mg/kg	1	1,000	690	ND (0.00075)	ND (0.4)	ND (0.00057)	ND (0.00071)	ND (0.00061)
trans-1,3-Dichloropropene	mg/kg	NV	NV	NV	ND (0.00076)	ND (0.31)	ND (0.00057)	ND (0.00071)	ND (0.00061)
Trichloroethene	mg/kg	2	700	14	ND (0.00083)	ND (0.43)	ND (0.00062)	ND (0.00078)	ND (0.00068)
Trichlorofluoromethane (CFC-11)	mg/kg	NV	NV	3,400	ND (0.0012)	ND (0.6)	ND (0.00087)	ND (0.0011)	ND (0.00095)
Trifluorotrichloroethane (Freon 113)	mg/kg	NV	NV	180,000	ND (0.0014)	ND (0.18)	ND (0.001)	ND (0.0013)	ND (0.0011)

TABLE 3.6D

SURFACE SOIL ANALYTICAL RESULTS - ENCAPSULATED LAGOON - OUTSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:					*SS-L1*	*SS-L2*	*SS-L4*	*SS-L5*	*SS-L6*
Sample ID:					*SS-15620-080509-RR-012*	*SS-15620-080509-RR-010*	*SS-15620-080509-RR-009*	*SS-15620-080509-RR-008*	*SS-15620-080509-RR-007*
Sample Date:					*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*
Sample Depth:					*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*
		S-2/GW-2	*S-2/GW-3*	*Industrial PRGs*					
Parameter		a	*b*	*c*					
	Unit								
Vinyl chloride	mg/kg	0.7	4	1.7	ND (0.00059)	ND (0.69)	ND (0.00045)	ND (0.00056)	ND (0.00048)
Xylene (total)	mg/kg	300	1,000	2,700	ND (0.0028)	ND (1.1)	ND (0.0021)	ND (0.0027)	ND (0.0023)
Semi-Volatiles									
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	NV	NV	22	ND (0.0083)	ND (0.0082)	ND (0.0082)	ND (0.0083)	ND (0.0082)
2,4,5-Trichlorophenol	mg/kg	1,000	600	62,000	ND (0.0047)	0.1J	ND (0.0046)	ND (0.0047)	ND (0.0046)
2,4,6-Trichlorophenol	mg/kg	20	20	160	ND (0.0095)	0.091J	ND (0.0093)	ND (0.0095)	ND (0.0093)
2,4-Dichlorophenol	mg/kg	60	40	1,800	ND (0.0077)	0.024J	ND (0.0076)	ND (0.0077)	ND (0.0076)
2,4-Dimethylphenol	mg/kg	100	1,000	12,000	ND (0.008)	ND (0.0079)	ND (0.0078)	ND (0.008)	ND (0.0078)
2,4-Dinitrophenol	mg/kg	50	90	1,200	1.2J	1.7J	ND (0.06) UJ	ND (0.061) UJ	0.61J
2,4-Dinitrotoluene	mg/kg	10	10	5.5	ND (0.0089)	ND (0.0088)	ND (0.0087)	ND (0.0089)	ND (0.0087)
2,6-Dinitrotoluene	mg/kg	NV	NV	620	ND (0.0097)	ND (0.0096)	ND (0.0095)	ND (0.0097)	ND (0.0095)
2-Chloronaphthalene	mg/kg	NV	NV	82,000	0.19	0.44	ND (0.005)	ND (0.0052)	0.08
2-Chlorophenol	mg/kg	100	300	5,100	ND (0.0059)	0.016J	ND (0.0057)	ND (0.0059)	ND (0.0057)
2-Methylnaphthalene	mg/kg	80	500	4,100	ND (0.0075)	ND (0.0074)	ND (0.0073)	ND (0.0075)	ND (0.0073)
2-Methylphenol	mg/kg	NV	NV	31,000	ND (0.007)	0.021J	ND (0.0069)	ND (0.007)	ND (0.0069)
2-Nitroaniline	mg/kg	NV	NV	6,000	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.012)	ND (0.011)
2-Nitrophenol	mg/kg	NV	NV	NV	ND (0.0073)	ND (0.0072)	ND (0.0071)	ND (0.0073)	ND (0.0071)
3,3'-Dichlorobenzidine	mg/kg	10	10	3.8	ND (0.036)	ND (0.036)	ND (0.035)	ND (0.036)	ND (0.035)
3-Nitroaniline	mg/kg	NV	NV	NV	ND (0.0062)	ND (0.0062)	ND (0.0061)	ND (0.0062)	ND (0.0061)
4,6-Dinitro-2-methylphenol	mg/kg	NV	NV	49	ND (0.18) UJ	ND (0.18) UJ	ND (0.18) UJ	ND (0.18) UJ	ND (0.18) UJ
4-Bromophenyl phenyl ether	mg/kg	NV	NV	NV	ND (0.0081)	ND (0.008)	ND (0.0079)	ND (0.0081)	ND (0.0079)
4-Chloro-3-methylphenol	mg/kg	NV	NV	62,000	ND (0.0057)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0056)
4-Chloroaniline	mg/kg	100	3	8.6	0.038J	ND (0.0058)	0.011J	ND (0.0059)	0.048J
4-Chlorophenyl phenyl ether	mg/kg	NV	NV	NV	ND (0.0084)	ND (0.0083)	ND (0.0082)	ND (0.0084)	ND (0.0082)
4-Methylphenol	mg/kg	NV	NV	3,100	ND (0.0083)	ND (0.0083)	ND (0.0082)	ND (0.0084)	ND (0.0082)
4-Nitroaniline	mg/kg	NV	NV	86	ND (0.0093)	ND (0.0092)	ND (0.0091)	ND (0.0093)	ND (0.0091)
4-Nitrophenol	mg/kg	NV	NV	NV	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Acenaphthene	mg/kg	3,000	3,000	33,000	0.0081J	ND (0.0061)	ND (0.006)	ND (0.0061)	ND (0.006)
Acenaphthylene	mg/kg	600	10	NV	0.065	0.011J	ND (0.0074)	ND (0.0076)	ND (0.0074)
Acetophenone	mg/kg	NV	NV	100,000	ND (0.0088)	ND (0.0087)	ND (0.0086)	ND (0.0088)	ND (0.0086)
Aniline	mg/kg	NV	NV	300	0.2	0.33	ND (0.0082)	ND (0.0083)	0.26
Anthracene	mg/kg	3,000	3,000	170,000	0.056	0.028J	ND (0.0065)	ND (0.0067)	ND (0.0065)
Atrazine	mg/kg	NV	NV	7.5	ND (0.009)	ND (0.0089)	ND (0.0088)	ND (0.009)	ND (0.0088)
Benzaldehyde	mg/kg	NV	NV	100,000	ND (0.005)	0.12J	ND (0.0049)	ND (0.005)	ND (0.0049)
Benzo(a)anthracene	mg/kg	40	40	2.1	0.29	0.089	ND (0.006)	ND (0.0061)	0.033J
Benzo(a)pyrene	mg/kg	4	4	0.21	0.31 [c]	0.1	ND (0.01)	ND (0.011)	0.063
Benzo(b)fluoranthene	mg/kg	40	40	2.1	0.39	0.086	ND (0.0075)	ND (0.0077)	0.042
Benzo(g,h,i)perylene	mg/kg	3,000	3,000	NV	0.16	0.048	ND (0.0027)	ND (0.0028)	0.02J
Benzo(k)fluoranthene	mg/kg	400	400	21	ND (0.0079)	ND (0.0079)	ND (0.0078)	ND (0.0079)	ND (0.0078)
Biphenyl (1,1-Biphenyl)	mg/kg	6	3,000	51,000	ND (0.0087)	0.012J	ND (0.0085)	ND (0.0087)	ND (0.0085)
bis(2-Chloroethoxy)methane	mg/kg	NV	NV	1,800	ND (0.0076)	ND (0.0076)	ND (0.0075)	ND (0.0077)	ND (0.0075)
bis(2-Chloroethyl)ether	mg/kg	0.7	3	1.0	ND (0.0033)	0.24	ND (0.0033)	ND (0.0033)	ND (0.0033)
bis(2-Ethylhexyl)phthalate	mg/kg	700	700	120	0.11J	0.067J	0.029J	0.039J	0.1J
Butyl benzylphthalate	mg/kg	NV	NV	910	ND (0.013)	0.06J	0.031J	ND (0.013)	ND (0.013)
Caprolactam	mg/kg	NV	NV	310,000	ND (0.025)	0.097J	ND (0.024)	0.078J	ND (0.024)
Carbazole	mg/kg	NV	NV	NV	0.022J	ND (0.005)	ND (0.0049)	ND (0.005)	ND (0.0049)
Chrysene	mg/kg	400	400	210	0.32	0.1	ND (0.0065)	ND (0.0067)	0.055

TABLE 3.6D

SURFACE SOIL ANALYTICAL RESULTS - ENCAPSULATED LAGOON - OUTSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:					*SS-L1*	*SS-L2*	*SS-L4*	*SS-L5*	*SS-L6*
Sample ID:					*SS-15620-080509-RR-012*	*SS-15620-080509-RR-010*	*SS-15620-080509-RR-009*	*SS-15620-080509-RR-008*	*SS-15620-080509-RR-007*
Sample Date:					*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*
Sample Depth:					*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*
		S-2/GW-2	*S-2/GW-3*	*Industrial PRGs*					
Parameter		a	*b*	*c*					
	Unit								
Dibenz(a,h)anthracene	mg/kg	4	4	0.21	0.035J	0.02J	ND (0.0082)	ND (0.0084) UJ	0.018J
Dibenzofuran	mg/kg	NV	NV	1,000	0.0088J	ND (0.0064)	ND (0.0063)	ND (0.0065)	ND (0.0063)
Diethyl phthalate	mg/kg	200	300	490,000	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)	ND (0.011)
Dimethyl phthalate	mg/kg	50	600	NV	ND (0.0064)	ND (0.0064)	ND (0.0063)	ND (0.0064)	ND (0.0063)
Di-n-butylphthalate	mg/kg	NV	NV	62,000	0.024J	0.027J	0.011J	0.012J	ND (0.01)
Di-n-octyl phthalate	mg/kg	NV	NV	NV	ND (0.0049)	ND (0.0049)	ND (0.0048)	ND (0.0049)	ND (0.0048)
Fluoranthene	mg/kg	3,000	3,000	22,000	0.33	0.22	ND (0.0031)	ND (0.0032)	0.074
Fluorene	mg/kg	3,000	3,000	22,000	ND (0.0057)	ND (0.0057)	ND (0.0056)	ND (0.0058)	ND (0.0056)
Hexachlorobenzene	mg/kg	5	5	1.1	0.027J	ND (0.0071)	ND (0.0071)	ND (0.0072)	0.073
Hexachlorobutadiene	mg/kg	90	90	22	ND (0.0081)	ND (0.008)	ND (0.0079)	ND (0.0081)	ND (0.0079)
Hexachlorocyclopentadiene	mg/kg	NV	NV	3,700	ND (0.0072) UJ	ND (0.0072) UJ	ND (0.0071) UJ	ND (0.0073) UJ	ND (0.0071) UJ
Hexachloroethane	mg/kg	3	100	120	ND (0.0064)	ND (0.0064)	ND (0.0063)	ND (0.0065)	ND (0.0063)
Indeno(1,2,3-cd)pyrene	mg/kg	40	40	2.1	0.15	0.045	ND (0.002)	ND (0.0021)	0.02J
Isophorone	mg/kg	NV	NV	1,800	ND (0.0074)	ND (0.0073)	ND (0.0073)	ND (0.0074)	ND (0.0073)
Naphthalene	mg/kg	40	1,000	18	0.45	0.36	0.033J	0.0088J	0.32
Nitrobenzene	mg/kg	NV or 40	NV or 40	24	0.36	4.1	0.032J	ND (0.0096)	0.37
N-Nitrosodi-n-propylamine	mg/kg	NV	NV	0.25	ND (0.011)	ND (0.01)	ND (0.01)	ND (0.011)	ND (0.01)
N-Nitrosodiphenylamine	mg/kg	NV	NV	350	ND (0.0078)	ND (0.0077)	ND (0.0076)	ND (0.0078)	ND (0.0076)
Pentachlorophenol	mg/kg	70	10	9.0	ND (0.033)	0.065J	ND (0.032)	ND (0.033)	0.058J
Phenanthrene	mg/kg	1,000	1,000	NV	0.11	0.16	ND (0.0045)	ND (0.0046)	0.017J
Phenol	mg/kg	50	20	180,000	0.092	0.034J	ND (0.0074)	ND (0.0076)	0.067
Pyrene	mg/kg	3,000	3,000	17,000	0.25	0.16	ND (0.0099)	ND (0.01)	0.064
Metals									
Aluminum	mg/kg	NV	NV	990,000	8320	9020	7570	8980	4980
Antimony	mg/kg	30	30	410	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.18)
Arsenic	mg/kg	20	20	1.6	10.5 [e]	8.3 [e]	5.3 [e]	5.4 [e]	6.4 [e]
Barium	mg/kg	3,000	3,000	190,000	95.5	40.5	24.4	23.4	23.2
Beryllium	mg/kg	200	200	2,000	ND (0.072) U	ND (0.065) U	ND (0.12) U	ND (0.032) U	ND (0.067) U
Cadmium	mg/kg	30	30	800	0.14 J	0.11 J	0.12 J	0.098 J	0.059 J
Calcium	mg/kg	NV	NV	NV	859	766	991	592	664
Chromium	mg/kg	200	200	NV	25.8	22.0	9.7	10.9	12.3
Cobalt	mg/kg	NV	NV	300	6.7	5.3 J	7.5	5.3 J	3.6 J
Copper	mg/kg	NV	NV	41,000	61.8	74.6	17.0	35.4	51.0
Iron	mg/kg	NV	NV	720,000	15600	18100	14800	17900	10700
Lead	mg/kg	300	300	800	255	69.9	13.1	9.6	19.6
Magnesium	mg/kg	NV	NV	NV	2740	2910	2640	2890	1720
Manganese	mg/kg	NV	NV	23,000	247	257	271	239	158
Mercury	mg/kg	30	30	34	9.5	10.9	2.1	0.15	19.6
Nickel	mg/kg	700	700	20,000	12.5	11.8	11.7	12.2	7.0
Potassium	mg/kg	NV	NV	NV	629	783	711	807	528 J
Selenium	mg/kg	800	800	5,100	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.24)	ND (0.23)
Silver	mg/kg	200	200	5,100	ND (0.066)	ND (0.066)	ND (0.065)	ND (0.066)	ND (0.065)
Sodium	mg/kg	NV	NV	NV	47.0 J	41.8 J	63.0 J	36.8 J	27.2 J
Thallium	mg/kg	60	60	NV	0.29 J	0.25 J	0.23 J	ND (0.24)	0.26 J
Vanadium	mg/kg	1,000	1,000	72	11.6	13.9	13.1	11.9	8.7
Zinc	mg/kg	3,000	3,000	310,000	42.2	29.7	27.5	28.5	18.1

TABLE 3.6D

SURFACE SOIL ANALYTICAL RESULTS - ENCAPSULATED LAGOON - OUTSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:					*SS-L1*	*SS-L2*	*SS-L4*	*SS-L5*	*SS-L6*
Sample ID:					*SS-15620-080509-RR-012*	*SS-15620-080509-RR-010*	*SS-15620-080509-RR-009*	*SS-15620-080509-RR-008*	*SS-15620-080509-RR-007*
Sample Date:					*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*
Sample Depth:					*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*	*0-1 ft BGS*
		S-2/GW-2	*S-2/GW-3*	*Industrial PRGs*					
Parameter		*a*	*b*	*c*					
	Unit								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	NV	NV	21	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)
Aroclor-1221 (PCB-1221)	mg/kg	NV	NV	0.54	ND (0.0036)	ND (0.0036)	ND (0.0036)	ND (0.0036)	ND (0.0036)
Aroclor-1232 (PCB-1232)	mg/kg	NV	NV	0.54	ND (0.0033)	ND (0.0033)	ND (0.0032)	ND (0.0033)	ND (0.0032)
Aroclor-1242 (PCB-1242)	mg/kg	NV	NV	0.74	ND (0.0031)	ND (0.0031)	ND (0.0031)	ND (0.0031)	ND (0.003)
Aroclor-1248 (PCB-1248)	mg/kg	NV	NV	0.74	3.4 [e]	1.5 [e]	0.13	ND (0.0018)	2.6 [e]
Aroclor-1254 (PCB-1254)	mg/kg	NV	NV	0.74	1.2 [e]	0.52	0.063	0.0092J	0.89 [e]
Aroclor-1260 (PCB-1260)	mg/kg	NV	NV	0.74	0.22	ND (0.0027)	ND (0.0027)	ND (0.0027)	ND (0.0026)
Total PCBs	mg/kg	3	3	0.74	4.82 [abc]	2.02 [e]	0.193	0.0092J	3.49 [abc]
General Chemistry									
Total Solids	%				87.7	87.5	88.6	87.5	89.4

Notes:

J - Estimated.
ND - Non-detect at associated value.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
(a) - 310 CMR 40.0000: Massachusetts Contingency Plan Method 1: Soil Category S-2 Standards
(b) - EPA Region 9, Regional Screening Levels, December 2009
(c) - Standard applies to total 1,3-dichloropropene
(d) - Screening level applies to total 1,3-dichloropropene
(e) - Standard applies to total PCBs

TABLE 3.6D

SURFACE SOIL ANALYTICAL RESULTS - ENCAPSULATED LAGOON - OUTSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:					*SS-L7*	*SS-L8*
Sample ID:					*SS-15620-080409-RR-005*	*SS-15620-080409-RR-006*
Sample Date:					*8/4/2009*	*8/4/2009*
Sample Depth:					*0-1 ft BGS*	*0-1 ft BGS*
		S-2/GW-2	*S-2/GW-3*	*Industrial PRGs*		
Parameter		a	*b*	*c*		
	Unit					
Volatiles						
1,1,1-Trichloroethane	mg/kg	600	1,000	38,000	ND (0.00047)	ND (0.00056)
1,1,2,2-Tetrachloroethane	mg/kg	0.02	10	2.8	ND (0.00069)	ND (0.00082)
1,1,2-Trichloroethane	mg/kg	2	60	5.3	ND (0.0008)	ND (0.00095)
1,1-Dichloroethane	mg/kg	5	1,000	17	ND (0.00055)	ND (0.00066)
1,1-Dichloroethene	mg/kg	40	1,000	1,100	ND (0.00081)	ND (0.00097)
1,2,3-Trichlorobenzene	mg/kg	NV	NV	490	ND (0.00081)	ND (0.00097)
1,2,4-Trichlorobenzene	mg/kg	70	900	99	ND (0.00084)	ND (0.001)
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NV	NV	0.069	ND (0.00072)	ND (0.00086)
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.1	4	0.17	ND (0.00083)	ND (0.00099)
1,2-Dichlorobenzene	mg/kg	30	300	9,800	ND (0.00076)	ND (0.00092)
1,2-Dichloroethane	mg/kg	0.1	90	2.2	ND (0.00059)	ND (0.0007)
1,2-Dichloropropane	mg/kg	0.1	100	4.5	ND (0.00052)	ND (0.00062)
1,3-Dichlorobenzene	mg/kg	40	500	NV	ND (0.00063)	ND (0.00075)
1,4-Dichlorobenzene	mg/kg	4	300	12	ND (0.00061)	ND (0.00073)
2-Butanone (Methyl Ethyl Ketone)	mg/kg	50	400	200,000	ND (0.00084)	ND (0.001)
2-Hexanone	mg/kg	NV	NV	1,400	ND (0.00066)	ND (0.00079)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	50	400	53,000	ND (0.00063)	ND (0.00075)
Acetone	mg/kg	50	400	630,000	ND (0.0048) UJ	ND (0.0057) UJ
Benzene	mg/kg	200	200	5.4	ND (0.00065)	ND (0.00078)
Bromodichloromethane	mg/kg	0.1	100	1.4	ND (0.00054)	ND (0.00064)
Bromoform	mg/kg	1	800	220	ND (0.00042)	ND (0.00051)
Bromomethane (Methyl Bromide)	mg/kg	0.5	30	32	ND (0.00071) UJ	ND (0.00085) UJ
Carbon disulfide	mg/kg	NV	NV	3,700	ND (0.00049)	ND (0.00059)
Carbon tetrachloride	mg/kg	5	60	3	ND (0.00043)	ND (0.00051)
Chlorobenzene	mg/kg	3	100	1,400	ND (0.00073)	ND (0.00087)
Chloroethane	mg/kg	NV	NV	61,000	ND (0.0015)	ND (0.0018)
Chloroform (Trichloromethane)	mg/kg	0.3	800	1.5	ND (0.00056)	ND (0.00067)
Chloromethane (Methyl Chloride)	mg/kg	NV	NV	500	ND (0.00082) UJ	ND (0.00098) UJ
cis-1,2-Dichloroethene	mg/kg	0.4	500	10,000	ND (0.00067)	ND (0.00081)
cis-1,3-Dichloropropene	mg/kg	NV	NV	NV	ND (0.00065)	ND (0.00078)
Cyclohexane	mg/kg	NV	NV	29,000	ND (0.00036)	ND (0.00043)
Dibromochloromethane	mg/kg	0.03	100	3.3	ND (0.00068)	ND (0.00081)
Dichlorodifluoromethane (CFC-12)	mg/kg	NV	NV	780	ND (0.00064)	ND (0.00076)
Ethylbenzene	mg/kg	1,000	1,000	27	ND (0.00062)	ND (0.00074)
Isopropylbenzene	mg/kg	NV	NV	11,000	ND (0.00065)	ND (0.00078)
Methyl acetate	mg/kg	NV	NV	1,000,000	ND (0.00086)	ND (0.001)
Methyl cyclohexane	mg/kg	NV	NV	NV	ND (0.00069)	ND (0.00083)
Methyl Tert Butyl Ether	mg/kg	100	500	220	ND (0.00072)	ND (0.00086) UJ
Methylene chloride	mg/kg	20	900	53	ND (0.00064)	ND (0.00077)
Styrene	mg/kg	4	200	36,000	ND (0.00068)	ND (0.00081)
Tetrachloroethene	mg/kg	10	200	2.6	ND (0.00065)	ND (0.00078)
Toluene	mg/kg	1,000	1,000	45,000	ND (0.0007)	ND (0.00084)
trans-1,2-Dichloroethene	mg/kg	1	1,000	690	ND (0.00057)	ND (0.00068)
trans-1,3-Dichloropropene	mg/kg	NV	NV	NV	ND (0.00057)	ND (0.00069)
Trichloroethene	mg/kg	2	700	14	ND (0.00063)	ND (0.00076)
Trichlorofluoromethane (CFC-11)	mg/kg	NV	NV	3,400	ND (0.00088)	ND (0.0011)
Trifluorotrichloroethane (Freon 113)	mg/kg	NV	NV	180,000	ND (0.001)	ND (0.0012)

TABLE 3.6D

SURFACE SOIL ANALYTICAL RESULTS - ENCAPSULATED LAGOON - OUTSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:					*SS-L7*	*SS-L8*
Sample ID:					*SS-15620-080409-RR-005*	*SS-15620-080409-RR-006*
Sample Date:					*8/4/2009*	*8/4/2009*
Sample Depth:					*0-1 ft BGS*	*0-1 ft BGS*
		S-2/GW-2	*S-2/GW-3*	*Industrial PRGs*		
Parameter		a	*b*	*c*		
	Unit					
Vinyl chloride	mg/kg	0.7	4	1.7	ND (0.00045)	ND (0.00054)
Xylene (total)	mg/kg	300	1,000	2,700	ND (0.0021)	ND (0.0026)
Semi-Volatiles						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	NV	NV	22	ND (0.0084)	ND (0.0083)
2,4,5-Trichlorophenol	mg/kg	1,000	600	62,000	ND (0.0047)	ND (0.0047)
2,4,6-Trichlorophenol	mg/kg	20	20	160	ND (0.0096)	ND (0.0094)
2,4-Dichlorophenol	mg/kg	60	40	1,800	ND (0.0078)	ND (0.0077)
2,4-Dimethylphenol	mg/kg	100	1,000	12,000	ND (0.0081)	ND (0.008)
2,4-Dinitrophenol	mg/kg	50	90	1,200	ND (0.062) UJ	ND (0.061) UJ
2,4-Dinitrotoluene	mg/kg	10	10	5.5	ND (0.009)	ND (0.0089)
2,6-Dinitrotoluene	mg/kg	NV	NV	620	ND (0.0098)	ND (0.0097)
2-Chloronaphthalene	mg/kg	NV	NV	82,000	ND (0.0052)	ND (0.0051)
2-Chlorophenol	mg/kg	100	300	5,100	ND (0.0059)	ND (0.0058)
2-Methylnaphthalene	mg/kg	80	500	4,100	ND (0.0076)	ND (0.0075)
2-Methylphenol	mg/kg	NV	NV	31,000	ND (0.0071)	ND (0.007)
2-Nitroaniline	mg/kg	NV	NV	6,000	ND (0.012)	ND (0.012)
2-Nitrophenol	mg/kg	NV	NV	NV	ND (0.0073)	ND (0.0072)
3,3'-Dichlorobenzidine	mg/kg	10	10	3.8	ND (0.036)	ND (0.036)
3-Nitroaniline	mg/kg	NV	NV	NV	ND (0.0063)	ND (0.0062)
4,6-Dinitro-2-methylphenol	mg/kg	NV	NV	49	ND (0.19) UJ	ND (0.18) UJ
4-Bromophenyl phenyl ether	mg/kg	NV	NV	NV	ND (0.0082)	ND (0.0081)
4-Chloro-3-methylphenol	mg/kg	NV	NV	62,000	ND (0.0057)	ND (0.0057)
4-Chloroaniline	mg/kg	100	3	8.6	ND (0.006)	ND (0.0059)
4-Chlorophenyl phenyl ether	mg/kg	NV	NV	NV	ND (0.0085)	ND (0.0084)
4-Methylphenol	mg/kg	NV	NV	3,100	ND (0.0084)	ND (0.0083)
4-Nitroaniline	mg/kg	NV	NV	86	ND (0.0094)	ND (0.0093)
4-Nitrophenol	mg/kg	NV	NV	NV	ND (0.11)	ND (0.11)
Acenaphthene	mg/kg	3,000	3,000	33,000	ND (0.0062)	ND (0.0061)
Acenaphthylene	mg/kg	600	10	NV	ND (0.0077)	ND (0.0076)
Acetophenone	mg/kg	NV	NV	100,000	ND (0.0089)	ND (0.0087)
Aniline	mg/kg	NV	NV	300	ND (0.0084)	ND (0.0083)
Anthracene	mg/kg	3,000	3,000	170,000	ND (0.0067)	ND (0.0066)
Atrazine	mg/kg	NV	NV	7.5	ND (0.0091)	ND (0.009)
Benzaldehyde	mg/kg	NV	NV	100,000	ND (0.005)	ND (0.005)
Benzo(a)anthracene	mg/kg	40	40	2.1	0.013J	ND (0.0061)
Benzo(a)pyrene	mg/kg	4	4	0.21	0.015J	ND (0.011)
Benzo(b)fluoranthene	mg/kg	40	40	2.1	0.017J	ND (0.0077)
Benzo(g,h,i)perylene	mg/kg	3,000	3,000	NV	0.013J	ND (0.0028)
Benzo(k)fluoranthene	mg/kg	400	400	21	ND (0.008)	ND (0.0079)
Biphenyl (1,1-Biphenyl)	mg/kg	6	3,000	51,000	ND (0.0088)	ND (0.0086)
bis(2-Chloroethoxy)methane	mg/kg	NV	NV	1,800	ND (0.0077)	ND (0.0076)
bis(2-Chloroethyl)ether	mg/kg	0.7	3	1.0	ND (0.0034)	ND (0.0033)
bis(2-Ethylhexyl)phthalate	mg/kg	700	700	120	0.051J	0.031J
Butyl benzylphthalate	mg/kg	NV	NV	910	0.037J	0.029J
Caprolactam	mg/kg	NV	NV	310,000	ND (0.025)	0.088J
Carbazole	mg/kg	NV	NV	NV	ND (0.0051)	ND (0.005)
Chrysene	mg/kg	400	400	210	0.022J	ND (0.0066)

TABLE 3.6D

SURFACE SOIL ANALYTICAL RESULTS - ENCAPSULATED LAGOON - OUTSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Sample Location:					*SS-L7*	*SS-L8*
Sample ID:					*SS-15620-080409-RR-005*	*SS-15620-080409-RR-006*
Sample Date:					*8/4/2009*	*8/4/2009*
Sample Depth:					*0-1 ft BGS*	*0-1 ft BGS*
		S-2/GW-2	*S-2/GW-3*	*Industrial PRGs*		
Parameter		a	*b*	*c*		
	Unit					
Dibenz(a,h)anthracene	mg/kg	4	4	0.21	ND (0.0085)	ND (0.0083)
Dibenzofuran	mg/kg	NV	NV	1,000	ND (0.0065)	ND (0.0064)
Diethyl phthalate	mg/kg	200	300	490,000	ND (0.011)	ND (0.011)
Dimethyl phthalate	mg/kg	50	600	NV	ND (0.0065)	ND (0.0064)
Di-n-butylphthalate	mg/kg	NV	NV	62,000	ND (0.011)	0.014J
Di-n-octyl phthalate	mg/kg	NV	NV	NV	ND (0.005)	ND (0.0049)
Fluoranthene	mg/kg	3,000	3,000	22,000	ND (0.0032)	ND (0.0032)
Fluorene	mg/kg	3,000	3,000	22,000	ND (0.0058)	ND (0.0057)
Hexachlorobenzene	mg/kg	5	5	1.1	ND (0.0073)	ND (0.0072)
Hexachlorobutadiene	mg/kg	90	90	22	ND (0.0082)	ND (0.0081)
Hexachlorocyclopentadiene	mg/kg	NV	NV	3,700	ND (0.0073) UJ	ND (0.0072) UJ
Hexachloroethane	mg/kg	3	100	120	ND (0.0065)	ND (0.0064)
Indeno(1,2,3-cd)pyrene	mg/kg	40	40	2.1	0.0097J	ND (0.0021)
Isophorone	mg/kg	NV	NV	1,800	ND (0.0075)	ND (0.0074)
Naphthalene	mg/kg	40	1,000	18	0.016J	0.012J
Nitrobenzene	mg/kg	NV or 40	NV or 40	24	ND (0.0097)	ND (0.0095)
N-Nitrosodi-n-propylamine	mg/kg	NV	NV	0.25	ND (0.011)	ND (0.011)
N-Nitrosodiphenylamine	mg/kg	NV	NV	350	ND (0.0079)	ND (0.0078)
Pentachlorophenol	mg/kg	70	10	9.0	ND (0.033)	ND (0.033)
Phenanthrene	mg/kg	1,000	1,000	NV	ND (0.0046)	ND (0.0045)
Phenol	mg/kg	50	20	180,000	ND (0.0076)	ND (0.0075)
Pyrene	mg/kg	3,000	3,000	17,000	0.018J	ND (0.01)
Metals						
Aluminum	mg/kg	NV	NV	990,000	8090	8090
Antimony	mg/kg	30	30	410	ND (0.19)	ND (0.19)
Arsenic	mg/kg	20	20	1.6	5.7 [c]	6.3 [c]
Barium	mg/kg	3,000	3,000	190,000	24.1	21.9 J
Beryllium	mg/kg	200	200	2,000	ND (0.13) U	ND (0.12) U
Cadmium	mg/kg	30	30	800	0.13 J	0.098 J
Calcium	mg/kg	NV	NV	NV	757	761
Chromium	mg/kg	200	200	NV	10.9	9.5
Cobalt	mg/kg	NV	NV	300	8.7	6.4
Copper	mg/kg	NV	NV	41,000	16.3	23.4
Iron	mg/kg	NV	NV	720,000	16600	16000
Lead	mg/kg	300	300	800	29.9	10.5
Magnesium	mg/kg	NV	NV	NV	2900	2750
Manganese	mg/kg	NV	NV	23,000	268	238
Mercury	mg/kg	30	30	34	0.81	0.58
Nickel	mg/kg	700	700	20,000	13.9	11.9
Potassium	mg/kg	NV	NV	NV	659	708
Selenium	mg/kg	800	800	5,100	ND (0.24)	ND (0.24)
Silver	mg/kg	200	200	5,100	ND (0.067)	ND (0.066)
Sodium	mg/kg	NV	NV	NV	35.2 J	32.8 J
Thallium	mg/kg	60	60	NV	0.41 J	0.31 J
Vanadium	mg/kg	1,000	1,000	72	12.3	11.8
Zinc	mg/kg	3,000	3,000	310,000	38.7	28.4

TABLE 3.6D

SURFACE SOIL ANALYTICAL RESULTS - ENCAPSULATED LAGOON - OUTSIDE PPA
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

	Sample Location:				*SS-L7*	*SS-L8*
	Sample ID:				*SS-15620-080409-RR-005*	*SS-15620-080409-RR-006*
	Sample Date:				*8/4/2009*	*8/4/2009*
	Sample Depth:				*0-1 ft BGS*	*0-1 ft BGS*
		S-2/GW-2	*S-2/GW-3*	*Industrial PRGs*		
Parameter		a	*b*	*c*		
	Unit					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	NV	NV	21	ND (0.0029)	ND (0.0028)
Aroclor-1221 (PCB-1221)	mg/kg	NV	NV	0.54	ND (0.0037)	ND (0.0036)
Aroclor-1232 (PCB-1232)	mg/kg	NV	NV	0.54	ND (0.0033)	ND (0.0032)
Aroclor-1242 (PCB-1242)	mg/kg	NV	NV	0.74	ND (0.0031)	ND (0.0031)
Aroclor-1248 (PCB-1248)	mg/kg	NV	NV	0.74	ND (0.0018)	ND (0.0018)
Aroclor-1254 (PCB-1254)	mg/kg	NV	NV	0.74	0.03	0.01J
Aroclor-1260 (PCB-1260)	mg/kg	NV	NV	0.74	ND (0.0027)	ND (0.0027)
Total PCBs	mg/kg	3	3	0.74	0.03	0.01J
General Chemistry						
Total Solids	%				86.7	88.0

Notes:

J - Estimated.
ND - Non-detect at associated value.
U - Not present at or above the associated value.
UJ - Estimated reporting limit.
(a) - 310 CMR 40.0000: Massachusetts Contingency Plan Method 1: Soil Category S-2 Standards
(b) - EPA Region 9, Regional Screening Levels, December 2009
(c) - Standard applies to total 1,3-dichloropropene
(d) - Screening level applies to total 1,3-dichloropropene
(e) - Standard applies to total PCBs

TABLE 3.7

TAUNTON RIVER SEDIMENT SAMPLE RESULTS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

AOC:				*AOC2*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*
AOC Sub:				*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*
Sample Location:				*SD-33*	*SD-09a*	*SD-09b*	*SD-10a*	*SD-10b*	*SD-11a*	*SD-11b*	*SD-12a*	*SD-12b*	*SD-13a*	*SD-13b*
Sample ID:				*SD-33-A1*	*SD-09a*	*SD-09b*	*SD-10a*	*SD-10b*	*SD-11a*	*SD-11b*	*SD-12a*	*SD-12b*	*SD-13a*	*SD-13b*
Unit:				*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*
Sample Date:				*7/1/1997*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*
Sample Depth:				*0-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*
X Coordinate:				*703509.8713 (703648.7359)*	*703813.586*	*703813.586*	*703829.6498*	*703829.6498*	*703670.0725*	*703670.0725*	*703658.4833*	*703658.4833*	*703662.692*	*703662.692*
Y Coordinate:				*295250.8809 (295264.2529)*	*295738.7045*	*295738.7045*	*295498.6379*	*295498.6379*	*295274.1865*	*295274.1865*	*295060.2333*	*295060.2333*	*294910.849*	*294910.849*
Parameter	*Units*	*ESV Criteria a*	*Residential Region 9 Criteria b*											
Volatiles														
Chlorobenzene	mg/kg	0.291	290	0.012	0.008	0.006	0.22	0.005	0.006	0.42*	0.39*	0.43*	0.003	0.19
Dichlorobenzene, total	mg/kg	N/A	N/A	-	0.88	1.63	1.48	0.52	3.45	4.59	5.71	4.52	1.4	2.87
Total trichlorobenzenes	mg/kg	N/A	N/A	-	0.61	0.99	0.84	0.28	1.1	1.5	3.4	2.7	0.83	1.9
Semi-Volatiles														
1,2,4-Trichlorobenzene	mg/kg	N/A	22	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.294	1900	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	1.315	N/A	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.318	2.4	-	-	-	-	-	-	-	-	-	-	-
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	N/A	4.6	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	N/A	6100	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	N/A	44	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	N/A	180	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	N/A	1200	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	N/A	120	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	N/A	1.6	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	N/A	61	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.417	6300	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	N/A	390	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	mg/kg	N/A	310	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	N/A	3100	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	mg/kg	N/A	610	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	mg/kg	N/A	1.1	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	N/A	4.9	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	N/A	6100	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	mg/kg	0.146	2.4	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	mg/kg	N/A	310	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	mg/kg	N/A	24	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	mg/kg	0.00671	3400	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	mg/kg	0.00587	N/A	-	-	-	-	-	-	-	-	-	-	-
Aniline	mg/kg	N/A	85	-	-	-	-	-	-	-	-	-	-	-
Anthracene	mg/kg	0.0572	17000	-	-	-	-	-	-	-	-	-	-	-
Benzidine	mg/kg	N/A	0.0005	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.108	0.15	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.15	0.015	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	10.4	0.15	-	-	-	-	-	-	-	-	-	-	-
Benzo(e)pyrene	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	N/A	1.5	-	-	-	-	-	-	-	-	-	-	-
Benzoic acid	mg/kg	N/A	240000	-	-	-	-	-	-	-	-	-	-	-
Benzyl alcohol	mg/kg	N/A	6100	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	mg/kg	N/A	180	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	mg/kg	N/A	0.21	-	-	-	-	-	-	-	-	-	-	-

TABLE 3.7

TAUNTON RIVER SEDIMENT SAMPLE RESULTS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

AOC:				*AOC2*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*
AOC Sub:				*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*
Sample Location:				*SD-33*	*SD-09a*	*SD-09b*	*SD-10a*	*SD-10b*	*SD-11a*	*SD-11b*	*SD-12a*	*SD-12b*	*SD-13a*	*SD-13b*
Sample ID:				*SD-33-A1*	*SD-09a*	*SD-09b*	*SD-10a*	*SD-10b*	*SD-11a*	*SD-11b*	*SD-12a*	*SD-12b*	*SD-13a*	*SD-13b*
Unit:				*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*
Sample Date:				*7/1/1997*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*
Sample Depth:				*0-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*
X Coordinate:				*703509.8713 (703648.7359)*	*703813.586*	*703813.586*	*703829.6498*	*703829.6498*	*703670.0725*	*703670.0725*	*703658.4833*	*703658.4833*	*703662.692*	*703662.692*
Y Coordinate:				*295250.8809 (295264.2529)*	*295738.7045*	*295738.7045*	*295498.6379*	*295498.6379*	*295274.1865*	*295274.1865*	*295060.2333*	*295060.2333*	*294910.849*	*294910.849*
Parameter	*Units*	*ESV Criteria a*	*Residential Region 9 Criteria b*											
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	0.182	35	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	mg/kg	N/A	260	-	-	-	-	-	-	-	-	-	-	-
C1-Chrysenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C1-Fluoranthenes/Pyrenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C1-Fluorenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C1-Naphthalenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C1-Phenanthrenes/Anthracenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C2-Chrysenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C2-Fluorenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C2-Naphthalenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C2-Phenanthrenes/Anthracenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C3-Chrysenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C3-Fluorenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C3-Naphthalenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C3-Phenanthrenes/Anthracenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C4-Chrysenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C4-Naphthalenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
C4-Phenanthrenes/Anthracenes	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Carbazole	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Chrysene	mg/kg	0.166	15	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	N/A	0.015	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	mg/kg	N/A	78	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	mg/kg	N/A	49000	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	mg/kg	N/A	6100	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/kg	0.423	2300	-	-	-	-	-	-	-	-	-	-	-
Fluorene	mg/kg	N/A	2300	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	mg/kg	N/A	0.3	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	N/A	6.2	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	mg/kg	N/A	370	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	mg/kg	N/A	35	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	N/A	0.15	-	-	-	-	-	-	-	-	-	-	-
Isophorone	mg/kg	N/A	510	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	mg/kg	0.176	3.6	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	mg/kg	N/A	4.8	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	mg/kg	N/A	0.0023	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	mg/kg	N/A	0.069	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	mg/kg	N/A	99	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	N/A	3	-	-	-	-	-	-	-	-	-	-	-
Perylene	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	mg/kg	0.204	N/A	-	-	-	-	-	-	-	-	-	-	-
Phenol	mg/kg	N/A	18000	-	-	-	-	-	-	-	-	-	-	-
Pyrene	mg/kg	0.195	1700	-	-	-	-	-	-	-	-	-	-	-
Metals														
Aluminum	mg/kg	58030	77000	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	N/A	31	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	9.79	0.39	-	-	-	-	-	-	-	-	-	-	-

TABLE 3.7

TAUNTON RIVER SEDIMENT SAMPLE RESULTS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

AOC:				*AOC2*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*
AOC Sub:				*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*
Sample Location:				*SD-33*	*SD-09a*	*SD-09b*	*SD-10a*	*SD-10b*	*SD-11a*	*SD-11b*	*SD-12a*	*SD-12b*	*SD-13a*	*SD-13b*
Sample ID:				*SD-33-A1*	*SD-09a*	*SD-09b*	*SD-10a*	*SD-10b*	*SD-11a*	*SD-11b*	*SD-12a*	*SD-12b*	*SD-13a*	*SD-13b*
Unit:				*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*
Sample Date:				*7/1/1997*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*
Sample Depth:				*0-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*
X Coordinate:				*703509.8713 (703648.7359)*	*703813.586*	*703813.586*	*703829.6498*	*703829.6498*	*703670.0725*	*703670.0725*	*703658.4833*	*703658.4833*	*703662.692*	*703662.692*
Y Coordinate:				*295250.8809 (295264.2529)*	*295738.7045*	*295738.7045*	*295498.6379*	*295498.6379*	*295274.1865*	*295274.1865*	*295060.2333*	*295060.2333*	*294910.849*	*294910.849*
Parameter	*Units*	*ESV Criteria a*	*Residential Region 9 Criteria b*												
Barium	mg/kg	157	15000	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/kg	N/A	160	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	0.99	70	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	43.4	N/A	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	50	23	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	31.6	3100	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/kg	40000	55000	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	35.8	400	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/kg	460	1800	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	0.18	5.6	12.344[ab]	5.5[a]	10.8[ab]	7[ab]	5.1[a]	7.2[ab]	7.2[ab]	5.6[a]	10.9[ab]	2.3[a]	8.1[ab]
Methyl mercury	mg/kg	N/A	7.8	0.0738	0.0111	0.0181	0.0121	0.00826	0.0277	0.0336	0.0238	0.0316	0.00733	0.032
Nickel	mg/kg	22.7	1500	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/kg	0.72	390	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/kg	0.5	390	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	0.72	5.5	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	121	23000	-	-	-	-	-	-	-	-	-	-	-
PCBs														
Chlorobiphenyl	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Decachlorobiphenyls sum	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyls sum	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyls sum	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyls sum	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyls sum	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls sum	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyls sum	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyls sum	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Total PCBs	mg/kg	0.0598	0.22	-	0.49[ab]	0.84[ab]	0.63[ab]	0.85[ab]	1.8[ab]	0.96[ab]	1.5[ab]	2.5[ab]	0.34[ab]	0.91[ab]
Total PCBs homologues	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyls sum	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Pesticides														
4,4'-DDD	mg/kg	N/A	2	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	mg/kg	N/A	1.4	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	mg/kg	N/A	1.7	-	-	-	-	-	-	-	-	-	-	-
Aldrin	mg/kg	N/A	0.029	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	mg/kg	N/A	0.077	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	mg/kg	N/A	0.27	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	mg/kg	N/A	0.03	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-

TABLE 3.7

TAUNTON RIVER SEDIMENT SAMPLE RESULTS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

AOC:				*AOC2*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*
AOC Sub:				*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*
Sample Location:				*SD-33*	*SD-09a*	*SD-09b*	*SD-10a*	*SD-10b*	*SD-11a*	*SD-11b*	*SD-12a*	*SD-12b*	*SD-13a*	*SD-13b*
Sample ID:				*SD-33-A1*	*SD-09a*	*SD-09b*	*SD-10a*	*SD-10b*	*SD-11a*	*SD-11b*	*SD-12a*	*SD-12b*	*SD-13a*	*SD-13b*
Unit:				*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*
Sample Date:				*7/1/1997*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*	*10/4/1999*
Sample Depth:				*0-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*
X Coordinate:				*703509.8713 (703648.7359)*	*703813.586*	*703813.586*	*703829.6498*	*703829.6498*	*703670.0725*	*703670.0725*	*703658.4833*	*703658.4833*	*703662.692*	*703662.692*
Y Coordinate:				*295250.8809 (295264.2529)*	*295738.7045*	*295738.7045*	*295498.6379*	*295498.6379*	*295274.1865*	*295274.1865*	*295060.2333*	*295060.2333*	*294910.849*	*294910.849*
Parameter	*Units*	*ESV Criteria a*	*Residential Region 9 Criteria b*											
Endrin	mg/kg	N/A	18	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	mg/kg	N/A	0.52	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	mg/kg	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	mg/kg	N/A	0.11	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	mg/kg	N/A	0.053	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/kg	N/A	310	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/kg	N/A	0.44	-	-	-	-	-	-	-	-	-	-	-
General Chemistry														
Clay	%	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Clay (<0.005 mm)	%	N/A	N/A	-	34.25	29.25	28	22.85	31.5	30	33.75	31.5	10.5	15.1
Coarse sand	%	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Cobble (>3 inch sieve)	%	N/A	N/A	-	0	0	0	0	0	0	0	0	0	0
Cobbles	%	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Fine sand	%	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Gravel	%	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Gravel (<3 inch sieve-#4 sieve)	%	N/A	N/A	-	0	0.07	0	0.81	0	0	0.99	0	8.09	2.1
Medium sand	%	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Sand (coarse #6 sieve-#10 sieve)	%	N/A	N/A	-	0.25	0.07	1.83	2.54	0.19	0.36	0.69	0.96	8.33	5.64
Sand (fine #50 sieve-#200 sieve)	%	N/A	N/A	-	4.88	5.78	16.63	19.87	10.73	10.52	9.54	9.78	40.4	39.92
Sand (medium #16 sieve-#40 sieve)	%	N/A	N/A	-	1.53	2.4	7.23	12.37	1.96	3	3.11	4.69	19.97	11.61
Silt	%	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Silt (0.074-0.005 mm)	%	N/A	N/A	-	59.09	62.43	46.32	41.56	55.62	56.12	51.92	53.07	12.71	26.63
Total organic carbon (TOC)	%	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	N/A	N/A	-	89.6	99.1	99.5	98.6	95.2	97.2	94	88	99.7	99.6
Total suspended solids (TSS)	%	N/A	N/A	-	44.87	41.65	50.22	52.38	45.49	41.72	37.98	43.66	62.89	65.31

Notes:
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
UJ - Estimated reporting limit.
-- Not applicable.

TABLE 3.7

TAUNTON RIVER SEDIMENT SAMPLE RESULTS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

AOC:		*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*
AOC Sub:		*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*
Sample Location:		*SD-14a*	*SD-14b*	*SD-34*	*SD-35*	*SD-36*	*SD-37*	*SD-38*	*sed132A*	*sed132B*	*sed133A*	*sed133B*	*sed134A*	*sed134B*
Sample ID:		*SD-14a*	*SD-14b*	*SD-34-A1*	*SD-35-A1*	*SD-36-A1*	*SD-37-A1*	*SD-38-A1*	*sed132A*	*sed132B*	*sed133A*	*sed133B*	*sed134A*	*sed134B*
Unit:		*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*
Sample Date:		*10/4/1999*	*10/4/1999*	*7/1/1997*	*7/1/1997*	*7/1/1997*	*7/1/1997*	*7/1/1997*	*7/15/2002*	*7/15/2002*	*7/15/2002*	*7/15/2002*	*7/15/2002*	*7/15/2002*
Sample Depth:		*0-5 cm*	*5-15 cm*	*0-15 cm*	*0-15 cm*	*0-15 cm*	*0-15 cm*	*0-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*
X Coordinate:		*703643.917*	*703643.917*	*703615.5706*	*703673.2414*	*703945.1919*	*703776.9699*	*703565.9179*	*703694.5115*	*703694.5115*	*706641.589*	*706641.589*	*700932.7531*	*700932.7531*
Y Coordinate:		*294718.7277*	*294718.7277*	*295175.377*	*295057.4369*	*295265.131*	*295113.1847*	*294908.5962*	*300931.4539*	*300931.4539*	*298397.627*	*298397.627*	*289766.3139*	*289766.3139*
Parameter	*Units*													
Volatiles														
Chlorobenzene	mg/kg	0.011	0.004	0.009	0.047	0.007	0.007	0.008	-	-	-	-	-	-
Dichlorobenzene, total	mg/kg	0.498	0.63	-	-	-	-	-	-	-	-	-	-	-
Total trichlorobenzenes	mg/kg	0.25	0.11	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatiles														
1,2,4-Trichlorobenzene	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	0.23 J
1,2-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
1,3-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
1,4-Dichlorobenzene	mg/kg	-	-	-	-	-	-	-	0.13 J	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	0.22 J
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
2,4,5-Trichlorophenol	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
2,4,6-Trichlorophenol	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
2,4-Dichlorophenol	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
2,4-Dimethylphenol	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
2,4-Dinitrophenol	mg/kg	-	-	-	-	-	-	-	ND (0.27) UJ	ND (0.29) UJ	ND (0.3) UJ	ND (0.31) UJ	ND (0.32) UJ	ND (0.37) UJ
2,4-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
2,6-Dinitrotoluene	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
2-Chloronaphthalene	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
2-Chlorophenol	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
2-Methylnaphthalene	mg/kg	-	-	-	-	-	-	-	-	0.033	-	0.038	-	0.043
2-Methylphenol	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
2-Nitroaniline	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
2-Nitrophenol	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
3,3'-Dichlorobenzidine	mg/kg	-	-	-	-	-	-	-	R	R	R	R	R	R
3-Nitroaniline	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
4,6-Dinitro-2-methylphenol	mg/kg	-	-	-	-	-	-	-	ND (0.27) UJ	ND (0.29) UJ	ND (0.3) UJ	ND (0.31) UJ	ND (0.32) UJ	ND (0.37) UJ
4-Bromophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
4-Chloro-3-methylphenol	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
4-Chloroaniline	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
4-Chlorophenyl phenyl ether	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
4-Methylphenol	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
4-Nitroaniline	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
4-Nitrophenol	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
Acenaphthene	mg/kg	-	-	-	-	-	-	-	0.009[a]	0.01[a]	0.016[a]	0.018[a]	0.01[a]	0.015[a]
Acenaphthylene	mg/kg	-	-	-	-	-	-	-	0.058[a]	0.12[a]	0.16[a]	0.19[a]	0.077[a]	0.12[a]
Aniline	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
Anthracene	mg/kg	-	-	-	-	-	-	-	0.052	0.091[a]	0.16[a]	0.14[a]	0.091[a]	0.1[a]
Benzidine	mg/kg	-	-	-	-	-	-	-	R	R	R	R	R	R
Benzo(a)anthracene	mg/kg	-	-	-	-	-	-	-	0.19[ab]	0.29[ab]	0.55[ab]	0.72[ab]	0.24[ab]	0.35[ab]
Benzo(a)pyrene	mg/kg	-	-	-	-	-	-	-	0.25[ab]	0.41[ab]	0.69[ab]	0.84[ab]	0.34[ab]	0.48[ab]
Benzo(b)fluoranthene	mg/kg	-	-	-	-	-	-	-	0.26[b]	0.41[b]	0.68[b]	0.85[b]	0.42[b]	0.48[b]
Benzo(e)pyrene	mg/kg	-	-	-	-	-	-	-	0.2	-	0.47	-	0.3	-
Benzo(g,h,i)perylene	mg/kg	-	-	-	-	-	-	-	0.16	0.17 J	0.31	0.56	0.17	0.33
Benzo(k)fluoranthene	mg/kg	-	-	-	-	-	-	-	0.25	0.33	0.52	0.53	0.28	0.44
Benzoic acid	mg/kg	-	-	-	-	-	-	-	ND (0.27) UJ	ND (0.29) UJ	0.17 J	0.14 J	ND (0.32) UJ	ND (0.37) UJ
Benzyl alcohol	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
bis(2-Chloroethoxy)methane	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
bis(2-Chloroethyl)ether	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)

TABLE 3.7

TAUNTON RIVER SEDIMENT SAMPLE RESULTS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

AOC:		*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*
AOC Sub:		*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*
Sample Location:		*SD-14a*	*SD-14b*	*SD-34*	*SD-35*	*SD-36*	*SD-37*	*SD-38*	*sed132A*	*sed132B*	*sed133A*	*sed133B*	*sed134A*	*sed134B*
Sample ID:		*SD-14a*	*SD-14b*	*SD-34-A1*	*SD-35-A1*	*SD-36-A1*	*SD-37-A1*	*SD-38-A1*	*sed132A*	*sed132B*	*sed133A*	*sed133B*	*sed134A*	*sed134B*
Unit:		*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*
Sample Date:		*10/4/1999*	*10/4/1999*	*7/1/1997*	*7/1/1997*	*7/1/1997*	*7/1/1997*	*7/1/1997*	*7/15/2002*	*7/15/2002*	*7/15/2002*	*7/15/2002*	*7/15/2002*	*7/15/2002*
Sample Depth:		*0-5 cm*	*5-15 cm*	*0-15 cm*	*0-15 cm*	*0-15 cm*	*0-15 cm*	*0-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*
X Coordinate:		*703643.917*	*703643.917*	*703615.5706*	*703673.2414*	*703945.1919*	*703776.9699*	*703565.9179*	*703694.5115*	*703694.5115*	*706641.589*	*706641.589*	*700932.7531*	*700932.7531*
Y Coordinate:		*294718.7277*	*294718.7277*	*295175.377*	*295057.4369*	*295265.131*	*295113.1847*	*294908.5962*	*300931.4539*	*300931.4539*	*298397.627*	*298397.627*	*289766.3139*	*289766.3139*
Parameter	***Units***													
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	-	-	-	-	-	-	-	0.15 J	0.18 J	**0.27 J[a]**	**0.31 J[a]**	**0.21 J[a]**	**0.29 J[a]**
Butyl benzylphthalate (BBP)	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
C1-Chrysenes	mg/kg	-	-	-	-	-	-	-	0.16	-	0.39	-	0.24	-
C1-Fluoranthenes/Pyrenes	mg/kg	-	-	-	-	-	-	-	0.27	-	0.73	-	0.35	-
C1-Fluorenes	mg/kg	-	-	-	-	-	-	-	0.021	-	0.04	-	0.027	-
C1-Naphthalenes	mg/kg	-	-	-	-	-	-	-	0.02	-	0.029	-	0.026	-
C1-Phenanthrenes/Anthracenes	mg/kg	-	-	-	-	-	-	-	0.12	-	0.35	-	0.16	-
C2-Chrysenes	mg/kg	-	-	-	-	-	-	-	0.11	-	0.25	-	0.16	-
C2-Fluorenes	mg/kg	-	-	-	-	-	-	-	0.028	-	0.15	-	0.053	-
C2-Naphthalenes	mg/kg	-	-	-	-	-	-	-	0.038	-	0.057	-	0.059	-
C2-Phenanthrenes/Anthracenes	mg/kg	-	-	-	-	-	-	-	0.095	-	0.29	-	0.12	-
C3-Chrysenes	mg/kg	-	-	-	-	-	-	-	0.069	-	0.13	-	0.098	-
C3-Fluorenes	mg/kg	-	-	-	-	-	-	-	0.018	-	0.089	-	0.064	-
C3-Naphthalenes	mg/kg	-	-	-	-	-	-	-	0.019	-	0.04	-	0.027	-
C3-Phenanthrenes/Anthracenes	mg/kg	-	-	-	-	-	-	-	0.072	-	0.15	-	0.091	-
C4-Chrysenes	mg/kg	-	-	-	-	-	-	-	0.055	-	0.11	-	0.081	-
C4-Naphthalenes	mg/kg	-	-	-	-	-	-	-	0.013	-	0.027	-	0.016	-
C4-Phenanthrenes/Anthracenes	mg/kg	-	-	-	-	-	-	-	0.068	-	0.14	-	0.084	-
Carbazole	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
Chrysene	mg/kg	-	-	-	-	-	-	-	**0.25[a]**	**0.3[a]**	**0.63[a]**	**0.77[a]**	**0.33[a]**	**0.42[a]**
Dibenz(a,h)anthracene	mg/kg	-	-	-	-	-	-	-	**0.046[b]**	**0.054[b]**	**0.11[b]**	**0.16[b]**	**0.053[b]**	**0.096[b]**
Dibenzofuran	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
Diethyl phthalate	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
Dimethyl phthalate	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
Di-n-butylphthalate (DBP)	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
Di-n-octyl phthalate (DnOP)	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37) UJ
Fluoranthene	mg/kg	-	-	-	-	-	-	-	**0.44[a]**	**0.57[a]**	**0.89[a]**	**1[a]**	**0.48[a]**	**0.58[a]**
Fluorene	mg/kg	-	-	-	-	-	-	-	0.013	0.019	0.026	0.033	0.019	0.032
Hexachlorobenzene	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
Hexachlorobutadiene	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
Hexachlorocyclopentadiene	mg/kg	-	-	-	-	-	-	-	R	R	R	R	R	R
Hexachloroethane	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	-	-	-	-	**0.16[b]**	**0.19[b]**	**0.33[b]**	**0.52[b]**	**0.17[b]**	**0.3[b]**
Isophorone	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
Naphthalene	mg/kg	-	-	-	-	-	-	-	0.031	0.045	0.041	0.06	0.041	0.076
Nitrobenzene	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
N-Nitrosodimethylamine	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
N-Nitrosodi-n-propylamine	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
N-Nitrosodiphenylamine	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
Pentachlorophenol	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
Perylene	mg/kg	-	-	-	-	-	-	-	0.08	-	0.18	-	0.1	-
Phenanthrene	mg/kg	-	-	-	-	-	-	-	0.18	0.18	**0.28[a]**	**0.25[a]**	0.18	**0.21[a]**
Phenol	mg/kg	-	-	-	-	-	-	-	ND (0.27)	ND (0.29)	ND (0.3)	ND (0.31)	ND (0.32)	ND (0.37)
Pyrene	mg/kg	-	-	-	-	-	-	-	**0.47[a]**	**0.74[a]**	**1.1[a]**	**1.4[a]**	**0.6[a]**	**0.87[a]**
Metals														
Aluminum	mg/kg	-	-	-	-	-	-	-	5900	5300	6500	6000	8600	12000
Antimony	mg/kg	-	-	-	-	-	-	-	0.21 J	0.2 J	0.2 J	0.22 J	0.22 J	0.3 J
Arsenic	mg/kg	-	-	-	-	-	-	-	**6[b]**	**7[b]**	**9[b]**	**11[ab]**	**14[ab]**	**21[ab]**

TABLE 3.7

TAUNTON RIVER SEDIMENT SAMPLE RESULTS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

AOC:		*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*
AOC Sub:		*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*
Sample Location:		*SD-14a*	*SD-14b*	*SD-34*	*SD-35*	*SD-36*	*SD-37*	*SD-38*	*sed132A*	*sed132B*	*sed133A*	*sed133B*	*sed134A*	*sed134B*
Sample ID:		*SD-14a*	*SD-14b*	*SD-34-A1*	*SD-35-A1*	*SD-36-A1*	*SD-37-A1*	*SD-38-A1*	*sed132A*	*sed132B*	*sed133A*	*sed133B*	*sed134A*	*sed134B*
Unit:		*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*
Sample Date:		*10/4/1999*	*10/4/1999*	*7/1/1997*	*7/1/1997*	*7/1/1997*	*7/1/1997*	*7/1/1997*	*7/15/2002*	*7/15/2002*	*7/15/2002*	*7/15/2002*	*7/15/2002*	*7/15/2002*
Sample Depth:		*0-5 cm*	*5-15 cm*	*0-15 cm*	*0-15 cm*	*0-15 cm*	*0-15 cm*	*0-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*
X Coordinate:		*703643.917*	*703643.917*	*703615.5706*	*703673.2414*	*703945.1919*	*703776.9699*	*703565.9179*	*703694.5115*	*703694.5115*	*706641.589*	*706641.589*	*700932.7531*	*700932.7531*
Y Coordinate:		*294718.7277*	*294718.7277*	*295175.377*	*295057.4369*	*295265.131*	*295113.1847*	*294908.5962*	*300931.4539*	*300931.4539*	*298397.627*	*298397.627*	*289766.3139*	*289766.3139*
Parameter	***Units***													
Barium	mg/kg	-	-	-	-	-	-	-	16	13	15	14	19	23
Beryllium	mg/kg	-	-	-	-	-	-	-	0.4	0.41	0.6	0.5	0.9	1.0
Cadmium	mg/kg	-	-	-	-	-	-	-	0.39	0.5	0.45	0.50	0.62	0.8
Calcium	mg/kg	-	-	-	-	-	-	-	1500	1200	2000	1700	2600	3200
Chromium	mg/kg	-	-	-	-	-	-	-	170 J[a]	250 J[a]	220 J[a]	290 J[a]	240 J[a]	380 J[a]
Cobalt	mg/kg	-	-	-	-	-	-	-	4.7	4.3	4.8	4.3	6.0	7
Copper	mg/kg	-	-	-	-	-	-	-	49 J[a]	71 J[a]	64 J[a]	81 J[a]	91 J[a]	130 J[a]
Iron	mg/kg	-	-	-	-	-	-	-	14000	12000	18000	16000	22000	31000
Lead	mg/kg	-	-	-	-	-	-	-	48 J[a]	63 J[a]	60 J[a]	68 J[a]	83 J[a]	120 J[a]
Magnesium	mg/kg	-	-	-	-	-	-	-	2900	2300	3500	3000	5100	6100
Manganese	mg/kg	-	-	-	-	-	-	-	140	130	150	140	180	230
Mercury	mg/kg	2.2[a]	1.9[a]	2.996[a]	6.627[ab]	0.485[a]	0.739[a]	0.874[a]	0.832[a]	1.08[a]	1.05[a]	1.67[a]	2.1[a]	2.76[a]
Methyl mercury	mg/kg	0.00603	0.00369	0.0215	0.0408	0.002	0.0037	0.0036	0.01	0.002	0.008	0.002	0.0121	0.0043
Nickel	mg/kg	-	-	-	-	-	-	-	10	11	13	14	18	26[a]
Potassium	mg/kg	-	-	-	-	-	-	-	860	720	1200	1000	1900	2300
Selenium	mg/kg	-	-	-	-	-	-	-	0.35 J	0.34 J	0.40 J	0.5 J	0.69 J	0.6 J
Silver	mg/kg	-	-	-	-	-	-	-	4[a]	6[a]	5[a]	8[a]	7[a]	13[a]
Sodium	mg/kg	-	-	-	-	-	-	-	4000	2300	7100	5200	13000	12000
Thallium	mg/kg	-	-	-	-	-	-	-	0.11	0.08	0.11	0.11	0.19	0.19
Vanadium	mg/kg	-	-	-	-	-	-	-	15[ab]	15[ab]	22[ab]	21[ab]	34[ab]	48[ab]
Zinc	mg/kg	-	-	-	-	-	-	-	94	110	110	120	160[a]	210[a]
PCBs														
Chlorobiphenyl	mg/kg	-	-	-	-	-	-	-	ND (0.0004) UJ	ND (0.001) UJ	ND (0) UJ	ND (0) UJ	ND (0.001) UJ	ND (0.001) UJ
Decachlorobiphenyls sum	mg/kg	-	-	-	-	-	-	-	0.014	0.054	0.01	0.014	0.005	0.009
Dichlorobiphenyls sum	mg/kg	-	-	-	-	-	-	-	ND (0)	ND (0.001)	ND (0)	ND (0)	ND (0.001)	ND (0.001)
Heptachlorobiphenyls sum	mg/kg	-	-	-	-	-	-	-	0.007 J	0.016	0.011	0.011	0.009	0.019
Hexachlorobiphenyls sum	mg/kg	-	-	-	-	-	-	-	0.021	0.054	0.026	0.042	0.025	0.048
Nonachlorobiphenyls sum	mg/kg	-	-	-	-	-	-	-	0.01	0.031	0.009	0.012	0.005	0.009
Octachlorobiphenyls sum	mg/kg	-	-	-	-	-	-	-	0.012 J	0.073 J	0.021	0.018 J	0.009 J	0.031
Pentachlorobiphenyls sum	mg/kg	-	-	-	-	-	-	-	0.034 J	0.052 J	0.047	0.045 J	0.062	0.13
Tetrachlorobiphenyls sum	mg/kg	-	-	-	-	-	-	-	0.022 J	0.025 J	0.047 J	0.029 J	0.085	0.15 J
Total PCBs	mg/kg	0.51[ab]	0.31[ab]	-	-	-	-	-	0.12[a]	0.3[ab]	0.17[a]	0.17[a]	0.2[a]	0.39[ab]
Total PCBs homologues	mg/kg	-	-	-	-	-	-	-	0.12 J	0.3 J	0.17 J	0.17 J	0.2 J	0.39 J
Trichlorobiphenyls sum	mg/kg	-	-	-	-	-	-	-	ND (0)	ND (0.001)	ND (0)	ND (0)	ND (0.001)	ND (0.001)
Pesticides														
4,4'-DDD	mg/kg	-	-	-	-	-	-	-	0.0043	-	0.003	-	0.0021	-
4,4'-DDE	mg/kg	-	-	-	-	-	-	-	0.005	-	0.005	-	0.004	-
4,4'-DDT	mg/kg	-	-	-	-	-	-	-	0.005 J	-	0.005 J	-	0.0028	-
Aldrin	mg/kg	-	-	-	-	-	-	-	ND (0.00013)	-	ND (0)	-	ND (0.00016)	-
alpha-BHC	mg/kg	-	-	-	-	-	-	-	ND (0.00013)	-	ND (0)	-	ND (0.00016)	-
alpha-Chlordane	mg/kg	-	-	-	-	-	-	-	ND (0)	-	ND (0)	-	ND (0.00016)	-
beta-BHC	mg/kg	-	-	-	-	-	-	-	ND (0.00013)	-	ND (0)	-	ND (0.00016)	-
delta-BHC	mg/kg	-	-	-	-	-	-	-	ND (0.00013)	-	ND (0)	-	ND (0.00016)	-
Dieldrin	mg/kg	-	-	-	-	-	-	-	0.002	-	0.002	-	0.001	-
Endosulfan I	mg/kg	-	-	-	-	-	-	-	ND (0)	-	ND (0)	-	ND (0.0002)	-
Endosulfan II	mg/kg	-	-	-	-	-	-	-	ND (0)	-	ND (0)	-	ND (0.0002)	-
Endosulfan sulfate	mg/kg	-	-	-	-	-	-	-	ND (0.00013)	-	ND (0)	-	ND (0.00016)	-

TABLE 3.7

TAUNTON RIVER SEDIMENT SAMPLE RESULTS
ADDENDUM SRFI REPORT
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

AOC:		*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*	*OTHER*
AOC Sub:		*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*
Sample Location:		*SD-14a*	*SD-14b*	*SD-34*	*SD-35*	*SD-36*	*SD-37*	*SD-38*	*sed132A*	*sed132B*	*sed133A*	*sed133B*	*sed134A*	*sed134B*
Sample ID:		*SD-14a*	*SD-14b*	*SD-34-A1*	*SD-35-A1*	*SD-36-A1*	*SD-37-A1*	*SD-38-A1*	*sed132A*	*sed132B*	*sed133A*	*sed133B*	*sed134A*	*sed134B*
Unit:		*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*	*SED*
Sample Date:		*10/4/1999*	*10/4/1999*	*7/1/1997*	*7/1/1997*	*7/1/1997*	*7/1/1997*	*7/1/1997*	*7/15/2002*	*7/15/2002*	*7/15/2002*	*7/15/2002*	*7/15/2002*	*7/15/2002*
Sample Depth:		*0-5 cm*	*5-15 cm*	*0-15 cm*	*0-15 cm*	*0-15 cm*	*0-15 cm*	*0-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*	*0-5 cm*	*5-15 cm*
X Coordinate:		*703643.917*	*703643.917*	*703615.5706*	*703673.2414*	*703945.1919*	*703776.9699*	*703565.9179*	*703694.5115*	*703694.5115*	*706641.589*	*706641.589*	*700932.7531*	*700932.7531*
Y Coordinate:		*294718.7277*	*294718.7277*	*295175.377*	*295057.4369*	*295265.131*	*295113.1847*	*294908.5962*	*300931.4539*	*300931.4539*	*298397.627*	*298397.627*	*289766.3139*	*289766.3139*
Parameter	***Units***													
Endrin	mg/kg	-	-	-	-	-	-	-	ND (0.00013)	-	ND (0)	-	ND (0.00016)	-
Endrin aldehyde	mg/kg	-	-	-	-	-	-	-	ND (0.0001)	-	ND (0)	-	0.0013 J	-
Endrin ketone	mg/kg	-	-	-	-	-	-	-	0.0019 J	-	0.002	-	ND (0.00016)	-
gamma-BHC (lindane)	mg/kg	-	-	-	-	-	-	-	ND (0.00013)	-	ND (0)	-	ND (0.00016)	-
gamma-Chlordane	mg/kg	-	-	-	-	-	-	-	ND (0.00013)	-	ND (0)	-	ND (0.00016)	-
Heptachlor	mg/kg	-	-	-	-	-	-	-	ND (0.00013)	-	ND (0)	-	ND (0.00016)	-
Heptachlor epoxide	mg/kg	-	-	-	-	-	-	-	ND (0.00013)	-	ND (0)	-	ND (0)	-
Methoxychlor	mg/kg	-	-	-	-	-	-	-	ND (0.00066)	-	ND (0.001)	-	ND (0.0008)	-
Toxaphene	mg/kg	-	-	-	-	-	-	-	ND (0.013)	-	ND (0.015)	-	ND (0.016)	-
General Chemistry														
Clay	%	-	-	-	-	-	-	-	9.05	7.64	2.49	5.68	16.09	13.81
Clay (<0.005 mm)	%	21	19.65	-	-	-	-	-	-	-	-	-	-	-
Coarse sand	%	-	-	-	-	-	-	-	0.94	1.15	0.01	0.34	0.01	0.09
Cobble (>3 inch sieve)	%	0	0	-	-	-	-	-	-	-	-	-	-	-
Cobbles	%	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00
Fine sand	%	-	-	-	-	-	-	-	45.26	47.20	29.02	31.22	19.18	14.52
Gravel	%	-	-	-	-	-	-	-	0.00	0.01	0.00	1.60	0.00	0.05
Gravel (<3 inch sieve-#4 sieve)	%	5.51	0.73	-	-	-	-	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-	24.16	25.93	7.68	13.24	2.29	3.48
Sand (coarse #6 sieve-#10 sieve)	%	1.97	1.45	-	-	-	-	-	-	-	-	-	-	-
Sand (fine #50 sieve-#200 sieve)	%	36.53	38.85	-	-	-	-	-	-	-	-	-	-	-
Sand (medium #16 sieve-#40 sieve)	%	10.67	11.75	-	-	-	-	-	-	-	-	-	-	-
Silt	%	-	-	-	-	-	-	-	20.60	18.08	60.80	47.93	64.42	68.05
Silt (0.074-0.005 mm)	%	24.32	27.57	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	%	-	-	-	-	-	-	-	2.4 J	3.3 J	3.2	3.3	4.6	4.3
Total solids	%	99.3	99.4	-	-	-	-	-	49.4	61.8	41.1	48.7	32.5	38.0
Total suspended solids (TSS)	%	51.64	52.23	-	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated.
ND - Non-detect at associated value.
R - Rejected.
UJ - Estimated reporting limit.
- - Not applicable.

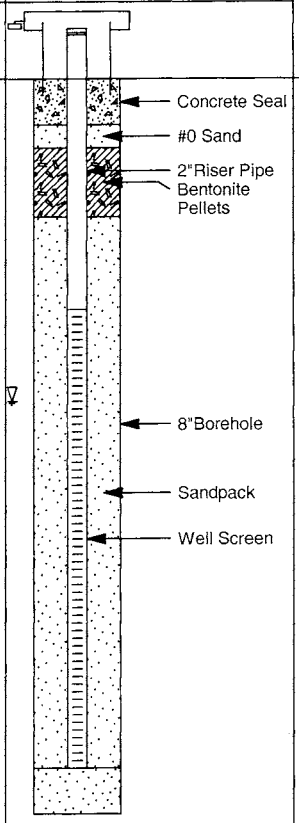
APPENDIX A

STRATIGRAPHIC AND INSTRUMENTATION LOGS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SRFI Addendum
PROJECT NUMBER: 15620-82
CLIENT: Zeneca Inc.
LOCATION: Dighton, MA

HOLE DESIGNATION: MW-31-RS
DATE COMPLETED: May 27, 2009
DRILLING METHOD: HSA
FIELD PERSONNEL: Rob Redman

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	Hollow Stem Auger	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE
	TOP OF RISER EXISTING GROUND SURFACE	16.79 13.54					
2 4 6 8 10 12 14 16 18 20 22 24 26 28	Stratigraphic information shown on MW-31-RS Pilot Hole.						
	END OF BOREHOLE @ 16.0ft BGS	-2.46					

WELL DETAILS
Screened interval:
8.54 to -1.46ft
5.00 to 15.00ft BGS
Length: 10ft
Diameter: 2in
Slot Size: 10
Material: PVC
Seal:
12.04 to 10.54ft
1.50 to 3.00ft BGS
Material: Bentonite Pellets
Sand Pack:
10.54 to -2.46ft
3.00 to 16.00ft BGS
Material: #0 Sand

NOTES:
WATER FOUND ∇

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: SRFI Addendum
PROJECT NUMBER: 15620-82
CLIENT: Zeneca Inc.
LOCATION: Dighton, MA

HOLE DESIGNATION: MW-31-RS Pilot Hole
DATE COMPLETED: May 20, 2009
DRILLING METHOD: HSA
FIELD PERSONNEL: Mike McDonald

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE
	EXISTING GROUND SURFACE	13.54				
	CONCRETE	13.14				
	SM - Silty Sand, trace fine gravel, dense, fine to medium sand, brown, dry	12.54	1		60	31
2	ML - Sandy Silt, medium stiff, fine sand, light grayish brown, mottled, dry		2		75	32
4	ML - Silt, some clay, very stiff, light brown, moist	9.54				
	- trace fine to medium sand at 5.0ft BGS		3		60	24
6	- dark brown with gray mottling at 6.0ft BGS					
	- wet, light brown, dark gray and light gray at 7.0ft BGS		4		90	13
	- light gray, clay content increases at 7.5ft BGS					
8	CL - Clay, some silt, stiff, light gray, wet	5.54				
	- dark gray, medium stiff at 9.0ft BGS		5		25	7
10						
			6		30	7
12						
			7		50	5
14						
			8		70	8
16	END OF BOREHOLE @ 16.0ft BGS	-2.46				
18						
20						
22						
24						
26						
28						

NOTES:

WATER FOUND ∇

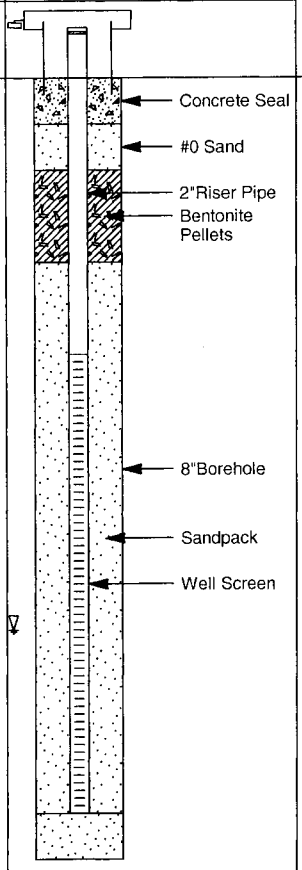
GRAIN SIZE ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SRFI Addendum
PROJECT NUMBER: 15620-82
CLIENT: Zeneca Inc.
LOCATION: Dighton, MA

HOLE DESIGNATION: MW-37-S
DATE COMPLETED: May 27, 2009
DRILLING METHOD: HSA
FIELD PERSONNEL: Rob Redman

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	Hollow Stem Auger	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE
	TOP OF RISER EXISTING GROUND SURFACE	15.72 12.90					
	Stratigraphic information collected from MW-37-S Pilot Hole.						
2							
4							
6							
8							
10							
12							
14							
16							
	END OF BOREHOLE @ 17.0ft BGS	-4.10					
18							
20							
22							
24							
26							
28							



WELL DETAILS
Screened interval:
6.90 to -3.10ft
6.00 to 16.00ft BGS
Length: 10ft
Diameter: 2in
Slot Size: 10
Material: PVC
Seal:
10.90 to 8.90ft
2.00 to 4.00ft BGS
Material: Bentonite Pellets
Sand Pack:
8.90 to -4.10ft
4.00 to 17.00ft BGS
Material: #0 Sand

NOTES:
WATER FOUND ∇

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: SRFI Addendum
PROJECT NUMBER: 15620-82
CLIENT: Zeneca Inc.
LOCATION: Dighton, MA

HOLE DESIGNATION: MW-37-S Pilot Hole
DATE COMPLETED: May 20, 2009
DRILLING METHOD: HSA
FIELD PERSONNEL: Mike McDonald

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE
	EXISTING GROUND SURFACE	12.90				
	ASPHALT	12.65				
	SP - SM - SAND with SILT, trace coarse gravel, dense, coarse sand, trace fine to medium sand, grayish brown, moist	11.90	1		100	26
2	SM - Silty Sand, trace coarse gravel, fine to medium sand, trace clsy, grayish brown, moist					
	- medium to coarse sand, increased gravel content at 3.0ft BGS		2		100	28
4						
	ML - Sandy Silt, little fine to coarse gravel, hard, fine sand, brown with gray mottling, moist, trace clay	7.90	3		50	64
6	- some clay at 6.5ft BGS					
	ML - SILT, trace fine sand, some clay, very stiff, light gray, moist	5.90	4		100	32
8						
			5		100	15
10						
			6		50	15
12	CL - CLAY, some silt, gray, wet, very stiff	1.40				
			7		15	50/2"
	- trace fine gravel and trace medium sand at 13.5ft BGS					
14						
			8		30	20
	- trace coarse, angular gravel, dark gray at 15.5ft BGS					
16						
	SP - SAND, trace silt, very dense, fine to medium, grayish brown, wet, some brown mottling	-4.10	9		75	23
18						
	- trace fine to coarse angular gravel, dark brown mottling at 19.0ft BGS		10		30	50/3"
20	GM - Silty GRAVEL, some sand, very dense, fine and coarse angular gravel, fine sand, light grayish brown, wet, gravel looks like weathered bedrock	-7.10				
			11		60	84
22	END OF BOREHOLE @ 22.0ft BGS	-9.10				
	Two separate boreholes were installed: one for stratigraphic information, the other for well installation.					
24						
26						
28						

NOTES:

WATER FOUND ∇

GRAIN SIZE ANALYSIS

15620
FIELD FILE

MW-31RS

#15620
Jun 1 '09

INSPECSOL ENGINEERING INC.
MEMBER OF THE CRA FAMILY OF COMPANIES

#8 slot size
#00 Sieve

PARTICLE-SIZE
ANALYSIS OF SOILS
(ASTM D 422-63)

CLIENT: Zeneca, Inc. LAB NO: 146
PROJECT / SITE: Zeneca - Dighton Site PROJECT NO: 15620

BORING NO: SAMPLE NO: MW - 31RS DEPTH: 0
SOIL DESCRIPTION: (ML) Silt, trace sand and gravel, gray.

APPARATUS:
Balance No: Sieve No: Hydrometer No:
Oven No: 1000ml Cylinder No.: Hydrometer Jar No:

SIEVING

Coarse portion
TOTAL DRY WEIGHT: 249.1 g
Weight after washing: 1.3 g
Loss by wash: 247.8 g

Fine portion
WEIGHT OF SAMPLE USED ON PASSING #10:
TOTAL DRY WEIGHT: 50.0 g
Weight after washing: 1.5 g
Loss by wash: 48.5 g
% PASSING #10 99.5%
ADJUSTED DRY WEIGHT 50.26 g

	SIEVE SIZE	WEIGHT RETAINED (g)	% RETAINED	% TOTAL PASSING
GRAVEL	3"		0.0%	100.0%
	1"		0.0%	100.0%
	3/4"		0.0%	100.0%
	1/2"		0.0%	100.0%
	3/8"	0.0	0.0%	100.0%
	#4	0.8	0.3%	99.7%
SAND	#8	0.2	0.1%	99.6%
	#10	0.3	0.1%	99.5%
	#16	0.0	0.0%	99.5%
	#40	0.1	0.2%	99.3%
	#50	0.1	0.2%	99.1%
	#100	0.1	0.2%	98.9%
	#200	1.2	2.4%	96.5%
	pan	0.0	96.5%	0.0%

HYDROMETER

°C	T min	R	δR	R - δR	L	L / T	K	D	P%
23	0.5	49.0							
	1	45.5							
	2	40.0							
23	5	32.0							
	15	24.0							
	30	20.5							
23	60	17.0							
	121	12.5							
	240	10.0							
23	481	7.5							
	1440								

WATER CONTENT		
CAN No:	101B	
Soil wet + Tare	756.1	
Soil dry + Tare	675.3	
Weight water	80.8	
Tare	178.3	
Weight dry soil	497	
W%	16.3%	

$$P\% = \frac{(R - \delta R)\, a}{Ms} \times 100$$

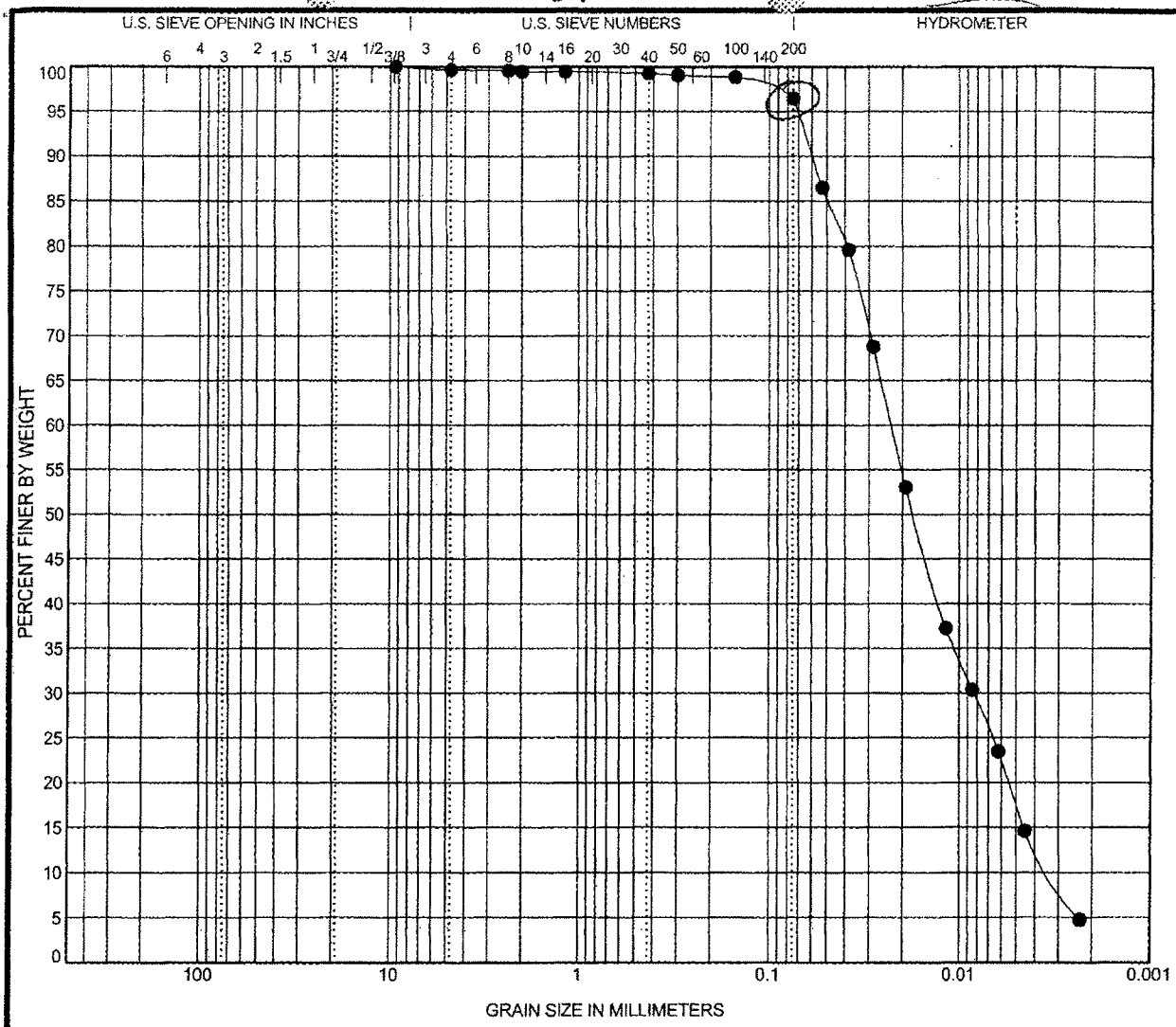
Dmm = K √L/T L is function of (R + meniscus) R'
Dr = ☐ measured ☐ estimated
a =

DISPERSING AGENT:
CONCENTRATION: g/L

REMARKS

PERFORMED BY: Rebecca Bentley DATE: 5/31/2009
CHECKED BY: DATE:

MW31RS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Specimen Identification		Classification	LL	PL	PI	Cc	Cu
●	**MW 31R S**	**0**	**(ML) SILT, trace sand and gravel, gray**				**0.93**	**6.99**

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	**MW 31R S**	**0**	**9.375**	**0.023**	**0.008**	**0.003**	**0.3**	**3.2**	**96.5**	

INSPECSOL ENGINEERING INC.
MEMBER OF THE CRA FAMILY OF COMPANIES

GRAIN SIZE DISTRIBUTION

Project Name: Zeneca - Dighton Site
Project Number: 015620
Client: Zeneca, Inc.
Location:

Test by: _____ Checked by: _____

GRAIN SIZE 15620 ZENECA.GPJ CRA PLYMOUTH.GDT 5/31/09

FILED FILE

MW-37S

#15620
Jun'09

INSPECSOL ENGINEERING INC.
MEMBER OF THE CRA FAMILY OF COMPANIES

15620
FIELD FILE

#10 Not sieved
#40 Sand

PARTICLE-SIZE ANALYSIS OF SOILS (ASTM D 422-63)

CLIENT: Zeneca, Inc. LAB NO: 146
PROJECT / SITE: Zeneca - Dighton Site PROJECT NO: 15620

BORING NO: SAMPLE NO: MW - 37S DEPTH: 0
SOIL DESCRIPTION: (SM) Gravelly SAND with silt and clay, gray.

APPARATUS:
Balance No: Sieve No: Hydrometer No:
Oven No: 1000ml Cylinder No.: Hydrometer Jar No:

SIEVING

Coarse portion

TOTAL DRY WEIGHT: 497 g
Weight after washing: 119.8 g
Loss by wash: 377.2 g

Fine portion

WEIGHT OF SAMPLE USED ON PASSING #10:

TOTAL DRY WEIGHT: 50.0 g
Weight after washing: 26.1 g
Loss by wash: 23.9 g
% PASSING #10 76.0%
ADJUSTED DRY WEIGHT 65.81 g

	SIEVE SIZE	WEIGHT RETAINED (g)	% RETAINED	% TOTAL PASSING
GRAVEL	3"		0.0%	100.0%
	1"	0.0	0.0%	100.0%
	3/4"	31.2	6.3%	93.7%
	1/2"	39.7	8.0%	85.7%
	3/8"	4.7	0.9%	84.8%
	#4	23.7	4.8%	80.0%
SAND	#8	16.9	3.4%	76.6%
	#10	3.2	0.6%	76.0%
	#16	1.2	1.8%	74.2%
	#40	3.2	4.9%	69.3%
	#50	2.4	3.6%	65.6%
	#100	12.2	18.5%	47.1%
	#200	7.0	10.6%	36.5%
	pan	0.1	36.5%	0.0%

HYDROMETER

°C	T min	R	δR	R - δR	L	L / T	K	D	P%
23	0.5	27.0							
	1	25.5							
	2	23.5							
23	5	21.5							
	15	20.0							
	30	18.0							
23	60	15.5							
	120	12.0							
	240	10.0							
23	480	8.0							
	1440								

WATER CONTENT		
CAN No:	101B	
Soil wet + Tare	756.1	
Soil dry + Tare	675.3	
Weight water	80.8	
Tare	178.3	
Weight dry soil	497	
W%	16.3%	

$$P\% = \frac{(R - \delta R)\, a}{Ms} \times 100$$

Dmm = K √L/T L is function of (R + meniscus) R'

Dr = _____ ☐ measured ☐ estimated

a = _____

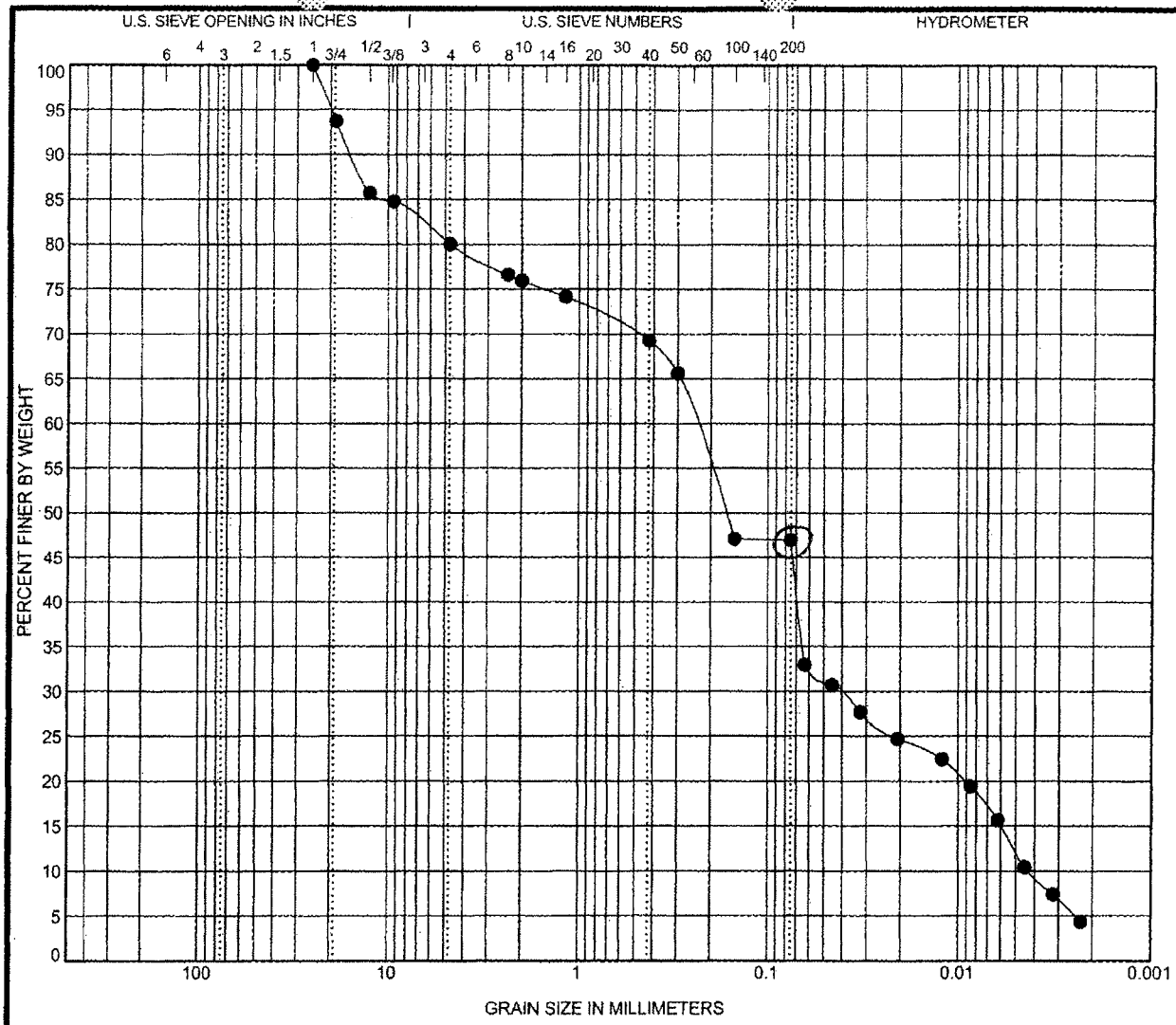
DISPERSING AGENT: _____

CONCENTRATION: _____ g/L

REMARKS

PERFORMED BY: Rebecca Bentley DATE: 5/31/2009
CHECKED BY: DATE:

MW 37S



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Specimen Identification		Classification	LL	PL	PI	Cc	Cu
●	**MW 37S**	**0**	**(SM) Gravelly SAND with silt and clay, gray**				**1.66**	**56.55**

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	**MW 37S**	**0**	**25**	**0.243**	**0.042**	**0.004**	**20.0**	**33.1**	**47.0**	

INSPECSOL ENGINEERING INC.
MEMBER OF THE CRA FAMILY OF COMPANIES

GRAIN SIZE DISTRIBUTION

Project Name: Zeneca - Dighton Site
Project Number: 015620
Client: Zeneca, Inc.
Location:

Test by: _____ Checked by: _____

GRAIN SIZE 15620 ZENECA.GPJ CRA PLYMOUTH.GDT 6/1/09

APPENDIX B

WELL DEVELOPMENT LOGS

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME:	Zeneca (333 Main St. Dighton Ma.)	PROJECT NO.:	015620
DATE OF WELL DEVELOPMENT:	June 12/16, 2009		
DEVELOPMENT CREW MEMBERS:	Rob Redman		
PURGING METHOD:	Surge Block & Purge		
SAMPLE NO.:			
SAMPLE TIME:			

WELL INFORMATION

WELL NUMBER:	MW-31R-S		
WELL TYPE (diameter/material)	2" Diameter PVC Monitoring Well		
MEASURING POINT ELEVATION:	Top of Riser		
STATIC WATER DEPTH:	3.15 ft	ELEVATION:	
BOTTOM DEPTH:	19.05 ft	ELEVATION:	
WATER COLUMN LENGTH:	15.90 ft		
SCREENED INTERVAL:	5-15 ft		
WELL VOLUME:	2.54 gallons		

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	*1*	*2*	*3*	*4*	*5*	*TOTAL/ AVERAGE*
VOLUME PURGED (volume/total volume):	gallons total volume	2.54	5.08	7.62	10.16	<12.70	Continued
FIELD pH:	--	5.49	5.77	6.08	5.02	5.09	
FIELD TEMPERATURE:	°C	16.47	14.15	13.34	14.74	13.85	
FIELD CONDUCTIVITY:	mS/cm	0.266	0.297	0.305	0.292	0.293	
CLARITY/TURBIDITY VALUES:	ntu	>999	>999	>999	>999	>999	
COLOR:							
ODOR:							
COMMENTS:					June 16/09	Went Dry	

	Units	*6*	*7*	*8*	*Total/ Average*
Volume Purged (volume/total volume):	gallons total volume	<15.24	<17.78	<20.32	<20.32 Total
Field pH:	--	4.91	5.10	5.16	5.33
Field Temperature:	°C	13.47	14.59	14.05	14.33
Field Conductivity:	mS/cm	0.299	0.279	0.257	0.286
Clarity/Turbidity Values:	ntu	>999	>999	>999	>999
Color:					
Odor:					
Comments:		Went Dry	Went Dry	Went Dry	

Copies To: _____

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Zeneca (333 Main St. Dighton Ma.) PROJECT NO.: 015620

DATE OF WELL DEVELOPMENT: June 29, 2009

DEVELOPMENT CREW MEMBERS: Rob Redman

PURGING METHOD: Surge Block & Purge

SAMPLE NO.:

SAMPLE TIME:

WELL INFORMATION

WELL NUMBER: MW-31R-S

WELL TYPE (diameter/material) 2" Diameter PVC Monitoring Well

MEASURING POINT ELEVATION: Top of Riser

STATIC WATER DEPTH: 3.15 ft ELEVATION:

BOTTOM DEPTH: 17.90 ft ELEVATION:

WATER COLUMN LENGTH: 15.90 ft

SCREENED INTERVAL: 5-15 ft

WELL VOLUME: 2.36 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	*1*	*2*	*5*	*7*		*TOTAL/ AVERAGE*
VOLUME PURGED (volume/total volume):	gallons total volume	2.36	4.72	7.08	9.44		9.44
FIELD pH:	--	4.94	4.88	4.88	4.92		4.91
FIELD TEMPERATURE:	°C	17.88	15.31	15.54	16.06		16.20
FIELD CONDUCTIVITY:	mS/cm	0.249	0.288	0.280	0.270		0.272
CLARITY/TURBIDITY VALUES:	ntu	>999	>999	>999	>999		>999
COLOR:							
ODOR:							
COMMENTS:			Went Dry		Still Silty		

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME:	Zeneca (333 Main St. Dighton Ma.)	PROJECT NO.:	015620
DATE OF WELL DEVELOPMENT:	June 12/16, 2009		
DEVELOPMENT CREW MEMBERS:	Rob Redman		
PURGING METHOD:	Surge Block & Purge		
SAMPLE NO.:			
SAMPLE TIME:			

WELL INFORMATION

WELL NUMBER:	MW-37-S		
WELL TYPE (diameter/material)	2" Diameter PVC Monitoring Well		
MEASURING POINT ELEVATION:	Feet Below Top of Riser		
STATIC WATER DEPTH:	5.55 ft	ELEVATION:	
BOTTOM DEPTH:	18.95 ft	ELEVATION:	
WATER COLUMN LENGTH:	13.40 ft		
SCREENED INTERVAL:	6ft-16ft		
WELL VOLUME:	2.14 gallons		

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	*1*	*2*	*3*	*4*	*5*	*TOTAL/ AVERAGE*
VOLUME PURGED (volume/total volume):	gallons total volume	2.14	4.28	6.42	8.56	10.7	Continued
FIELD pH:	--	5.45	5.65	5.53	5.75	5.72	
FIELD TEMPERATURE:	°C	15.70	15.79	15.50	14.24	13.95	
FIELD CONDUCTIVITY:	mS/cm	0.579	0.604	0.657	0.524	0.476	
CLARITY/TURBIDITY VALUES:	ntu	>999	>999	>999	>999	>999	
COLOR:							
ODOR:							
COMMENTS:		Very Turbid					

	UNITS	6	7	8	9	10	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):	gallons total volume	12.84	14.98	17.12	19.26	21.4	Continued
FIELD pH:	--	4.68	4.73	4.84	4.95	4.94	
FIELD TEMPERATURE:	°C	14.36	13.85	13.27	13.57	13.24	
FIELD CONDUCTIVITY:	mS/cm	0.606	0.560	0.485	0.515	0.462	
CLARITY/TURBIDITY VALUES:	ntu	>999	>999	>999	>999	>999	
COLOR:							
ODOR:							
COMMENTS:		June 16, 09			Went Dry	Went Dry	

	UNITS	11	12	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):	gallons total volume	23.54	25.68	25.68
FIELD pH:		4.82	5.04	5.18
FIELD TEMPERATURE:	°C	13.20	13.41	14.17
FIELD CONDUCTIVITY:	mS/cm	0.476	0.496	0.537
CLARITY/TURBIDITY VALUES:	ntu	>999	>999	>999
COLOR:				
ODOR:				
COMMENTS:		Went Dry	Went Dry	

COPIES TO: _____

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME:	Zeneca (333 Main St. Dighton Ma.)	PROJECT NO.:	015620
DATE OF WELL DEVELOPMENT:	June 29th , 2009		
DEVELOPMENT CREW MEMBERS:	Rob Redman		
PURGING METHOD:	Surge Block & Purge		
SAMPLE NO.:			
SAMPLE TIME:			

WELL INFORMATION

WELL NUMBER:	MW-37-S		
WELL TYPE (diameter/material)	2" Diameter PVC Monitoring Well		
MEASURING POINT ELEVATION:	Feet Below Top of Riser		
STATIC WATER DEPTH:	5.20 ft	ELEVATION:	
BOTTOM DEPTH:	18.85 ft	ELEVATION:	
WATER COLUMN LENGTH:	13.65 ft		
SCREENED INTERVAL:	6ft-16ft		
WELL VOLUME:	2.18 gallons		

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	*1*	*2*	*3*	*4*	*6*	*TOTAL/ AVERAGE*
VOLUME PURGED (volume/total volume):	gallons total volume	2.18	4.36	6.54	8.72	10.90	Continued
FIELD pH:	--	4.88	4.84	4.80	4.87	4.96	
FIELD TEMPERATURE:	°C	17.54	15.73	15.75	15.77	15.06	
FIELD CONDUCTIVITY:	mS/cm	0.715	0.583	0.548	0.547	0.521	
CLARITY/TURBIDITY VALUES:	ntu	>999	>999	>999	>999	>999	
COLOR:							
ODOR:							
COMMENTS:			Went Dry	Went Dry	Went Dry		

	Units	*8*	*10*	*Total/ Average*
Volume Purged (volume/total volume):	gallons total volume	13.08	15.26	15.26 total
Field pH:	--	4.91	4.90	4.88
Field Temperature:	°C	15.64	16.20	15.96
Field Conductivity:	mS/cm	0.465	0.487	0.552
Clarity/Turbidity Values:	ntu	>999	>999	>999
Color:				
Odor:				
Comments:		Went Dry		Still fine silt clay suspended

Copies To: _____

APPENDIX C

MONITORING WELL PURGE RECORDS

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Date*	*Initial Depth (ft BTOR)*	*Time*	*Pumping Rate (mL/min)*	*Depth to Water (ft BTOR)*	*Drawdown (feet)*	*pH*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
Overburden Wells												
ECR-1	7/22/2009	4.20	8:30	130	4.88	0.68	6.88	20.6	0.595	-53	5.37	114
			8:35	130	4.93	0.73	7.00	18.7	0.640	-64	0	116
			8:40	130	5.13	0.93	6.96	18.0	0.662	-75	0	128
			8:45	130	5.35	1.15	6.96	17.0	0.671	-81	0	120
			8:50	130	5.39	1.19	6.96	17.0	0.671	-81	0	84
			8:55	130	5.42	1.22	6.94	16.3	0.674	-80	0	39.4
			9:00	130	5.42	1.22	6.95	16.2	0.679	-78	0	33.2
			9:05	130	5.43	1.23	6.93	16.1	0.674	-80	0	31.1
ECR-2	7/22/2009	2.22	7:45	140	2.38	0.16	7.19	20.0	0.481	-19	0	0
			7:50	175	2.39	0.17	7.15	20.0	0.479	-9	0	0
			7:55	175	2.42	0.20	7.13	19.9	0.478	-5	0	0
			8:00	175	2.45	0.23	7.13	19.8	0.477	-1	0	0
			8:05	175	2.46	0.24	7.13	19.7	0.478	-1	0	0
			8:10	175	2.46	0.24	7.13	19.7	0.478	-1	0	0
ECR-3	7/22/2009	2.19	6:40	200	2.50	0.31	6.82	18.4	0.381	-51	9.64	263
			6:45	200	2.74	0.55	6.74	18.2	0.338	-80	0.00	211
			6:50	140	3.12	0.93	6.72	18.1	0.140	-23	1.55	93.0
			6:55	140	3.22	1.03	6.62	18.2	0.080	16	2.83	39.2
			7:00	140	3.58	1.39	6.51	18.4	0.408	-83	0.00	19.2
			7:05	bottom	3.60	1.41	6.72	18.4	0.347	-108	0.00	18.5
			7:10	bottom	3.60	recharging	6.79	18.4	0.287	-103	0.00	17.3
			7:15	bottom	3.60	recharging	6.81	18.5	0.304	-104	0.00	16.9
GP-412	7/23/2009	-	15:15	200	-	-	--	--	--	--	--	--
			15:25	200	-	-	6.03	19.67	0.300	-87	0.57	0.2
			15:30	200	-	-	6.08	19.49	0.300	-95	0.29	2.2
			15:35	200	-	-	6.09	19.49	0.300	-97	0.20	3.2
			15:40	200	-	-	6.11	19.38	0.299	-100	0.17	4.7
			15:45	200	-	-	6.14	19.35	0.298	-102	0.17	4.9
			15:50	200	-	-	6.15	19.32	0.298	-103	0.14	5.1
TW-1	8/12/2009	1.97	14:05	60	1.97	0.00						
			14:10	60	3.90	1.93	5.37	17.23	5.98	-65	1.36	999
			14:15	60	3.90	1.93	5.58	16.72	5.83	-127	0.76	999
			14:20	60	3.90	1.93	5.76	15.61	5.98	-175	0.61	999
			14:25	60	3.90	1.93	6.13	15.37	6.27	-246	0.71	34.9
			14:35	60	3.90	1.93	6.21	15.01	6.59	-271	0.40	11.2
			14:40	60	3.90	1.93	6.33	14.75	6.88	-286	0.36	11.9

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	Date	Initial Depth (ft BTOR)	Time	Pumping Rate (mL/min)	Depth to Water (ft BTOR)	Drawdown (feet)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			14:45	60	3.90	1.93	6.39	14.73	7.06	-294	0.28	20.7
			14:50	60	3.90	1.93	6.39	14.86	7.11	-299	0.22	20.9
			14:55	60	3.90	1.93	6.39	14.85	7.14	-302	0.25	21.2
TW-3	8/4/2009	3.05	8:20	35	3.05	0.00	--	--	--	--	--	--
			8:30	35	6.25	3.20	7.28	18.90	12.190	-253.00	0.60	372
			8:45	35				Well de-watered				
TW-4	8/13/2009	3.85	8:50	70	4.15	0.30						
			8:55	70	4.15	0.30	6.72	15.20	14.6	-266	1.46	66.1
			9:00	70	4.15	0.30	6.71	15.01	14.7	-259	1.08	32.6
			9:10	70	4.15	0.30	6.76	15.03	14.7	-257	0.59	9.15
			9:15	70	4.15	0.30	6.78	15.01	14.7	-259	0.60	8.22
			9:20	70	4.15	0.30	6.76	14.84	14.7	-259	0.58	8.68
			9:25	70	4.15	0.30	6.71	14.88	14.8	-261	0.59	8.61
MW-1-13	6/9/2009	4.51	9:35		4.51	0.00						
			9:45	100	4.64	0.13	5.59	11.2	0.133	288	4.08	14.0
			9:55	100	4.64	0.13	5.41	11.1	0.114	303	4.59	11.6
			10:00	100	4.63	0.12	5.44	11.1	0.111	301	4.25	9.2
			10:05	100	--	--	5.46	11.1	0.110	301	4.32	7.8
			10:10	100	--	--	5.44	11.1	0.109	302	4.22	7.8
			10:15	100	--	--	5.53	11.1	0.108	300	4.37	8.2
MW-2-10	6/18/2009	3.20	10:25	100	3.31	0.11	5.74	17.07	0.124	193	5.79	3.37
			10:45	100	3.31	0.11	5.88	17.29	0.119	164	6.23	3.63
			11:05	100	3.31	0.11	5.91	17.36	0.118	161	7.64	2.44
			11:25	100	3.31	0.11	5.89	17.17	0.117	159	7.99	2.56
			11:45	100	3.31	0.11	5.91	17.26	0.116	159	7.71	2.20
			11:55	100	3.31	0.11	5.90	17.22	0.116	159	7.63	2.14
			12:05	100	3.31	0.11	5.89	17.30	0.115	158	7.59	2.09
			12:15	100	3.31	0.11	5.92	17.45	0.116	158	7.50	2.03
MW-3	7/21/2009	2.40	13:03	175	2.51	0.11	6.46	18.4	1.590	-56	7.71	65.1
			13:06	175	2.62	0.22	6.35	18.3	1.510	-67	0	58.1
			13:09	150	2.73	0.33	6.33	18.2	1.420	-70	0	41.0
			13:12	150	2.85	0.45	6.32	18.2	1.350	-71	0	31.4
			13:15	150	2.88	0.48	6.28	18.2	1.340	-68	0	32.2
			13:18	150	2.89	0.49	6.28	18.2	1.320	-64	0	36.2
			13:21	150	2.89	0.49	6.28	18.2	1.290	-68	0	30.4
			13:22	150	2.89	0.49	6.27	18.2	1.260	-64	0	29.8

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Date*	*Initial Depth (ft BTOR)*	*Time*	*Pumping Rate (mL/min)*	*Depth to Water (ft BTOR)*	*Drawdown (feet)*	*pH*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
			13:25	150	2.90	0.50	6.28	18.2	1.220	-53	0	28.8
			13:28	150	2.90	0.50	6.27	18.2	1.200	-45	0	28.5
			13:31	150	2.90	0.50	6.27	18.2	0.986	-36	0	28.4
			13:34	150	2.89	0.49	6.27	18.2	0.560	17	0	28.4
			13:37	150	2.89	0.49	6.27	18.3	0.492	37	0	28.5
			13:40	150	2.90	0.50	6.32	18.4	0.524	42	0	29.6
			13:43	150	2.91	0.51	6.36	18.4	0.545	44	0	28.6
			13:46	150	2.91	0.51	6.39	18.4	0.550	45	0	27.9
MW-3-14	6/12/2009	2.55	11:50	150	2.55	0.00	--	--	--	--	--	--
			12:05	150	2.60	0.05	6.15	15.52	0.431	33	0.35	0.0
			12:15	150	2.61	0.06	6.24	15.95	0.480	8	0.19	0.0
			12:25	150	2.61	0.06	6.23	16.61	0.529	0	0.12	0.0
			12:35	150	2.61	0.06	6.24	16.91	0.526	-5	0.13	0.0
			12:40	150	2.61	0.06	6.24	17.20	0.511	-7	0.14	0.0
MW-4	7/21/2009	3.17	11:00	175	3.28		6.13	17.1	2.240	19	0	148
			11:03	175	3.31		6.23	17.8	2.030	5	0	42.7
			11:06	175	3.31		6.33	17.9	1.940	-1	0	22.0
			11:09	175	3.32		6.46	17.9	1.795	-6	0	3.7
			11:12	175	3.32		6.65	18.0	1.170	-12	0	1.4
			11:15	175	3.32		6.66	18.1	1.120	-10	0	3.0
			11:18	175	3.32		6.66	18.1	1.080	-5	0	4.9
			11:21	175	3.32		6.66	18.1	1.060	-1	0	5.0
			11:24	175	3.32		6.66	18.2	1.020	-2	0	3.1
			11:27	175	3.32		6.64	18.2	1.000	5	0	0.6
			11:30	175	3.32		6.63	18.3	0.993	8	0	0.7
MW-4-18	6/10/2009	2.05	8:40		2.05	0.00						
			8:55	100	2.45	0.40	5.34	12.3	0.146	293	0.19	12.2
			9:00	100	2.53	0.48	5.37	12.3	0.144	290	0.22	12.0
			9:05	100	2.53	0.48	5.32	12.3	0.143	294	0.00	12.7
			9:15	100	2.53	0.48	5.37	12.2	0.142	288	0.00	12.9
MW-5	7/22/2009	2.25	14:10	180	2.25	0.00	--	--	--	--	--	--
			14:13	180	2.40	0.15	4.54	17.55	0.587	--	1.97	117
			14:16	180	2.42	0.17	4.53	17.68	0.584	-17	1.72	40.1
			14:19	180	2.42	0.17	4.56	18.02	0.584	-21	2.04	32.54
			14:22	180	2.42	0.17	4.64	18.09	0.604	-25	2.37	76.57
			14:25	180	2.42	0.17	4.72	18.53	0.587	-30	1.70	621

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	Date	Initial Depth (ft BTOR)	Time	Pumping Rate (mL/min)	Depth to Water (ft BTOR)	Drawdown (feet)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			14:28	180	2.42	0.17	4.83	19.31	0.579	-36	1.36	629
			14:31	180	2.42	0.17	4.90	19.38	0.584	-44	0.93	999
			14:34	180	2.42	0.17	4.96	19.38	0.585	-50	0.65	999
			14:37	180	2.42	0.17	5.00	19.29	0.605	-56	1.33	999
			14:41	180	2.42	0.17	5.02	17.29	0.587	-60	0.54	999
			14:44	180	2.42	0.17	5.05	21.33	0.593	-65	0.92	999
			14:47	180	2.42	0.17	5.05	26.55	0.598	-65	0.96	999
			14:50	180	2.42	0.17	5.06	21.76	0.603	-66	0.81	999
			14:59	180	2.42	0.17	5.05	21.30	0.614	-66	0.95	999
			15:13	180	2.42	0.17	4.89	17.76	0.632	-49	2.09	311
			15:16	180	2.42	0.17	4.85	18.04	0.638	-47	1.70	247.5
			15:19	180	2.42	0.17	4.86	17.84	0.644	-49	0.93	357
			15:22	180	2.42	0.17	4.87	17.13	0.650	-49	1.06	396
			15:29	180	2.42	0.17	4.85	17.86	0.597	-48	1.29	249.5
			15:32	180	2.42	0.17	4.87	18.08	0.593	-48	1.46	210
			15:35	180	2.42	0.17	4.88	18.10	0.601	-50	1.65	86.8
			15:38	180	2.42	0.17	4.89	18.06	0.616	-50	1.09	82.29
			15:41	180	2.42	0.17	4.89	17.99	0.608	-50	1.01	- -
			15:44	180	2.42	0.17	4.90	17.82	0.587	-50	2.99	56.9
			15:47	180	2.42	0.17	4.90	17.80	0.579	-50	1.99	43.04
			15:50	180	2.42	0.17	4.90	17.90	0.586	-50	2.28	30.32
			15:53	180	2.42	0.17	4.90	18.03	0.583	-51	2.24	16.44
			15:56	180	2.42	0.17	4.90	17.95	0.595	-51	1.46	13.64
			15:59	180	2.42	0.17	4.91	17.95	0.583	-51	1.79	10.56
MW-5-16	6/30/2009	4.65	8:30	- -	4.65	0.00	- -	- -	- -	- -	- -	- -
			8:45	100	5.12	0.47	6.19	16.06	0.268	167	1.26	7.1
			8:55	50	5.23	0.58	6.23	16.65	0.277	151	0.64	0.0
			9:05	50	5.31	0.66	6.25	16.50	0.269	144	0.48	0.0
			9:15	50	5.40	0.75	6.25	16.47	0.255	141	0.42	0.0
			9:30	50	5.45	0.80	6.27	16.47	0.246	137	0.30	0.0
			9:40	50	5.51	0.86	6.29	16.83	0.237	134	0.22	0.0
			10:00	50	5.51	0.86	6.29	16.94	0.232	133	0.19	0.0
			10:05	50	5.51	0.86	6.29	16.99	0.236	133	0.19	0.0
MW-6	7/22/2009	2.30	15:15	130	2.68	0.38	6.75	25.1	0.447	-119	4.59	0.0
			15:18	130	2.68	0.38	6.75	23.6	0.465	-131	0.00	0.0
			15:21	190	2.68	0.38	6.84	23.1	0.453	-140	0.00	0.0
			15:24	190	2.68	0.38	6.94	23.2	0.349	-134	0.00	6.4
			15:27	190	2.68	0.38	6.90	23.6	0.365	-133	0.00	1.7

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Date*	*Initial Depth (ft BTOR)*	*Time*	*Pumping Rate (mL/min)*	*Depth to Water (ft BTOR)*	*Drawdown (feet)*	*pH*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
			15:30	190	2.68	0.38	6.86	23.1	0.440	-144	0.00	0.0
			15:33	190	2.68	0.38	6.91	22.8	0.433	-148	0.00	0.0
			15:36	190	2.68	0.38	6.90	22.8	0.437	-146	0.00	0.0
MW-6-17	6/17/2009	3.75	14:30	100	4.02	0.27	5.10	14.61	0.236	206	0.00	1.08
			14:50	100	4.05	0.30	5.19	14.89	0.350	202	0.00	2.00
			15:10	100	4.05	0.30	5.23	14.84	0.272	210	0.00	4.02
			15:30	100	4.01	0.26	5.26	13.90	0.251	219	0.00	1.47
			15:50	100	4.01	0.26	5.28	14.23	0.249	221	0.00	0.96
			16:00	100	4.01	0.26	5.29	13.98	0.243	223	0.00	1.24
			16:10	100	4.01	0.26	5.29	14.01	0.242	224	0.00	1.09
			16:20	100	4.01	0.26	5.29	13.88	0.241	226	0.00	1.13
			16:30	100	4.01	0.26	5.28	13.45	0.236	228	0.00	0.80
MW-7	7/23/2009	2.20	10:10	175	2.20	0.00	--	--	--	--	--	--
			10:30	175	2.23	0.03	6.05	20.48	1.140	-80	3.35	150
			10:33	175	2.23	0.03	6.04	21.08	1.100	-80	3.26	146
			10:36	175	2.23	0.03	6.03	21.38	1.050	-76	4.08	149
			10:39	175	2.23	0.03	6.02	21.15	1.000	-74	4.49	145
			10:42	175	2.23	0.03	6.01	20.18	1.000	-72	4.21	153
			10:45	175	2.23	0.03	6.00	21.33	0.980	-70	5.23	123
			10:48	175	2.23	0.03	6.00	21.36	0.980	-69	5.00	105.3
			10:51	175	2.23	0.03	5.99	21.22	0.980	-71	4.63	98.48
			10:54	175	2.23	0.03	5.96	21.19	0.970	-68	5.51	90.14
			10:57	175	2.23	0.03	5.97	20.93	0.970	-69	4.96	81.73
			11:00	175	2.23	0.03	5.97	21.07	0.960	-69	4.94	72.40
			11:03	175	2.23	0.03	5.98	21.34	0.950	-68	5.33	78.14
			11:06	175	2.23	0.03	5.94	21.11	0.950	-67	5.28	75.10
MW-7-20	6/10/2009	2.04	11:35	200	2.04	0.00	--	--	--	--	--	--
			11:45	200	2.15	0.11	5.11	13.99	0.227	297	3.19	0.0
			11:55	200	2.15	0.11	5.25	13.32	0.203	256	0.07	0.0
			12:05	200	2.15	0.11	5.31	13.31	0.195	239	0.00	0.0
			12:15	200	2.15	0.11	5.41	13.42	0.191	220	0.00	0.0
			12:25	200	2.15	0.11	5.45	13.63	0.190	208	0.00	0.0
			12:30	200	2.15	0.11	5.51	13.01	0.189	200	0.00	0.0
			12:40	200	2.15	0.11	5.54	13.73	0.190	190	0.00	0.0
			12:50	200	2.15	0.11	5.51	13.67	0.189	181	0.00	0.0
			13:00	200	2.15	0.11	5.54	13.24	0.188	177	0.00	0.0
			13:05	200	2.15	0.11	5.52	13.26	0.187	176	0.00	0.0

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Date*	*Initial Depth (ft BTOR)*	*Time*	*Pumping Rate (mL/min)*	*Depth to Water (ft BTOR)*	*Drawdown (feet)*	*pH*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
MW-8	7/10/2009	4.70	13:00	--	--	--	--	--	--	--	--	--
			13:05	100	4.70	0.00	7.34	22.7	0.363	-7	2.91	40.71
			13:08	100	4.70	0.00	7.12	22.6	0.872	-8	2.68	25.16
			13:11	100	4.70	0.00	6.93	22.5	0.999	-9	3.04	20.57
			13:14	100	4.70	0.00	7.17	22.7	0.900	-8	2.59	15.20
			13:17	100	4.70	0.00	7.18	22.4	0.999	-7	3.03	10.80
			13:20	100	4.70	0.00	7.05	22.5	0.980	-7	2.90	6.43
			13:23	100	4.70	0.00	7.01	22.4	1.210	-6	2.86	10.72
			13:26	100	4.70	0.00	6.98	22.7	1.150	-6	2.89	6.47
MW-9	7/23/2009	1.50	9:30	85	1.50	0.00	--	--	--	--	--	--
			9:37	85	1.95	0.45	5.93	19.98	0.665	-93	1.88	154
			9:40	85	1.95	0.45	5.96	19.40	0.667	-98	1.98	160
			9:43	85	1.95	0.45	6.02	19.54	0.668	-104	1.41	112.3
			9:46	85	1.95	0.45	6.05	19.20	0.674	-108	0.90	96.24
			9:50	85	1.95	0.45	6.06	18.84	0.676	-111	0.70	67.3
			9:53	85	1.95	0.45	6.07	18.97	0.672	-111	0.63	59.9
			9:56	85	1.95	0.45	6.07	18.81	0.664	-108	0.58	52.91
			9:59	85	1.95	0.45	6.07	18.12	0.662	-107	0.60	45.82
MW-9-15	7/6/2009	5.33	13:45	--	--	--	--	--	--	--	--	--
			14:18	175	5.34	0.01	4.96	14.6	0.305	206	0	0
			14:21	175	5.36	0.03	4.97	14.2	0.304	194	0	0
			14:35	175	5.34	0.01	4.99	15.2	0.303	190	0	0
			14:45	175	5.32	-0.01	4.99	14.9	0.304	191	0	0
			15:10	175	5.28	-0.05	5.01	15.3	0.301	193	0	0
			15:25	175	5.28	-0.05	5.01	15.7	0.299	197	0	0
			15:30	175	5.31	-0.02	5.02	14.5	0.297	193	0	0
			15:35	175	5.31	-0.02	5.02	15.1	0.293	196	0	0
MW-10-14	7/6/2009	5.43	13:15		5.43	0.00						
			13:35	50	6.76	1.33	5.24	15.17	0.361	-76	0.64	13.9
			13:45	50	6.78	1.35	5.54	15.42	0.357	-108	2.64	9.1
			14:10	50	6.78	1.35	6.22	15.99	0.340	-165	1.64	4.2
			14:20	50			6.29	16.01	0.334	-171	1.30	3.3
			14:30	50			6.34	16.17	0.331	-175	1.04	3.6
			14:40	50			6.33	16.77	0.329	-174	0.94	2.7
			14:50	50			6.37	15.48	0.325	-183	0.71	2.5
			15:00	50			6.40	15.64	0.324	-189	0.49	2.6

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	Date	Initial Depth (ft BTOR)	Time	Pumping Rate (mL/min)	Depth to Water (ft BTOR)	Drawdown (feet)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			15:10	50			6.40	15.77	0.322	-190	0.45	2.8
MW-11R-14	7/23/2009	1.10	13:00	250	1.10	0.00	--	--	--	--	--	--
			13:10	250	1.15	0.05	5.93	20.88	0.373	-71	0.50	18.1
			13:15	250	1.23	0.13	5.92	21.79	0.367	-57	0.40	17.4
			13:20	250	1.23	0.13	5.86	22.18	0.366	-49	0.36	18.1
			13:25	250	1.23	0.13	5.85	22.60	0.366	-41	0.38	13.4
			13:30	250	1.23	0.13	5.83	22.91	0.364	-34	0.43	13.3
			13:35	250	1.23	0.13	5.83	23.23	0.362	-29	0.48	9.4
			13:40	250	1.23	0.13	5.86	23.46	0.362	-25	0.49	5.6
			13:45	250	1.23	0.13	5.86	23.60	0.363	-23	0.51	5.0
			13:50	250	1.23	0.13	5.86	23.67	0.366	-21	0.47	5.0
MW-14-13	6/25/2009	4.17	8:05	80	4.17	0.00	--	--	--	--	--	--
			8:30	80	4.45	0.28	6.37	13.46	0.192	133	0.73	0.0
			8:40	80	4.55	0.38	6.38	14.70	0.193	117	0.48	0.0
			8:50	80	4.65	0.48	6.45	14.66	0.191	98	0.33	0.0
			9:00	80	4.70	0.53	6.60	14.73	0.193	68	0.29	0.0
			9:10	80	4.75	0.58	6.84	14.84	0.196	25	0.43	0.0
			9:20	80	4.80	0.63	7.02	14.86	0.240	-18	0.46	0.0
			9:30	80	4.85	0.68	7.14	15.07	0.255	-45	0.45	0.0
			9:40	50	4.70	0.53	7.28	16.05	0.283	-69	0.61	0.0
			9:50	50	4.60	0.43	7.44	16.50	0.257	-90	0.68	0.0
			10:00	50	4.60	0.43	7.50	17.02	0.266	-99	0.59	0.0
			10:10	50	4.55	0.38	7.52	17.02	0.277	-101	0.61	0.0
			10:30	50	4.55	0.38	7.54	16.78	0.288	-106	0.60	0.0
			10:35	50	4.55	0.38	7.52	16.68	0.290	-107	0.70	0.0
			10:40	50	4.55	0.38	7.54	16.59	0.292	-109	0.61	0.0
MW-15R-S	6/11/2009	6.2	8:25	--	--	--	--	--	--	--	--	--
			8:45	100	7.11	0.91	5.35	15.40	0.163	246	9.01	38.6
			8:55	50	7.35	1.15	5.49	15.59	0.161	242	8.57	9.3
			9:05	50	7.60	1.40	5.63	15.48	0.162	215	4.82	19.8
			9:15	50	7.85	1.65	5.84	15.29	0.167	196	7.98	11.2
			9:25	50	7.95	1.75	5.88	15.37	0.177	184	1.76	6.1
			9:35	50	7.95	1.75	--	15.47	0.193	176	1.19	4.0
			9:45	50	7.95	1.75	6.05	15.53	0.200	172	0.82	2.4
			9:50	50	7.95	1.75	6.04	15.58	0.201	171	0.84	1.3
			9:55	50	--	--	6.04	15.67	0.200	170	0.85	0.9
			10:00	50	--	--	6.00	15.64	0.198	172	0.84	0.9

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	Date	Initial Depth (ft BTOR)	Time	Pumping Rate (mL/min)	Depth to Water (ft BTOR)	Drawdown (feet)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
MW16-14	7/22/2009	5.53	7:10	100	6.16	0.63	6.80	18.0	2.420	-73	0.00	210
			7:15	100	6.78	1.25	6.78	17.8	2.420	-87	0.00	149
			7:20	100	6.18	0.65	6.76	17.6	2.430	-93	0.00	61.0
			7:25	175	6.31	0.78	6.78	17.4	2.430	-98	0.00	36.7
			7:30	200	6.31	0.78	6.78	17.3	2.440	-100	0.00	24.9
			7:35	200	6.32	0.79	6.78	16.9	2.440	-103	0.00	23.6
			7:40	200	6.32	0.79	6.78	16.8	2.440	-105	0.00	23.4
MW-18-15	7/8/2009	6.91										
			13:55	200	7.00	0.09	4.79	15.9	0.105	375	3.18	24.17
			14:20	200	7.00	0.09	4.76	15.4	0.103	364	3.15	--
			14:30	200	7.00	0.09	4.79	15.3	0.103	370	3.42	2.93
			14:35	200	7.00	0.09	4.80	15.3	0.101	370	2.81	2.94
			14:40	200	7.00	0.09	4.79	15.2	0.101	368	2.04	2.24
			14:45	200	7.00	0.09	4.80	15.1	0.101	368	3.43	1.22
MW-18-15	7/8/2009	7.20										
			14:20	175	7.25	0.05	6.21	15.0	17.100	23	7.31	529.7
			14:40	175	7.75	0.55	6.41	13.9	13.700	24	5.71	275.0
			15:05	175	7.78	0.58	5.96	13.4	6.680	66	5.79	135.0
			15:15	175	7.76	0.56	5.69	13.3	5.070	82	5.94	138.1
			15:35	175	8.11	0.91	5.64	12.4	3.790	95	6.04	118.2
			15:50	175	8.02	0.82	5.86	12.7	3.330	94	5.94	90.12
			16:20	175	7.55	0.35	5.91	13.9	3.160	90	5.75	66.56
			16:25	175	7.55	0.35	6.12	14.2	3.090	87	5.74	53.01
			16:30	175	7.55	0.35	6.15	14.3	3.060	87	5.76	52.48
			16:35	175	7.55	0.35	5.99	14.7	3.000	89	5.70	59.49
			16:55	175	7.55	0.35	6.15	--	2.870	--	--	52.24
			17:00	175	7.55	0.35	6.15	14.9	2.870	93	5.73	56.92
MW-12-19	7/22/2009	5.85	10:00	50	5.85	0.00	--	--	--	--	--	--
			10:10	50	6.30	0.45	4.94	18.37	1.750	-18	7.38	--
			10:25	50	6.40	0.55	4.92	18.80	5.550	-7	7.55	36.21
			10:30	50	6.55	0.70	4.91	19.13	4.110	6	8.22	36.17
			10:35	50	6.57	0.72	4.90	19.40	2.840	16	8.03	37.63
			10:40	50	6.61	0.76	4.60	19.49	2.530	22	7.43	37.17
			10:45	50	6.70	0.85	4.64	19.67	2.420	26	6.99	32.56
			10:50	50	6.70	0.85	4.66	19.56	2.110	32	6.30	28.22
			10:55	50	6.70	0.85	4.63	19.67	1.990	35	5.59	34.55

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Date*	*Initial Depth (ft BTOR)*	*Time*	*Pumping Rate (mL/min)*	*Depth to Water (ft BTOR)*	*Drawdown (feet)*	*pH*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
			11:00	50	6.70	0.85	4.39	19.96	1.880	38	5.15	34.7
			11:05	50	6.70	0.85	4.40	20.23	1.810	40	5.10	33.8
			11:10	50	6.70	0.85	4.40	19.96	1.790	33	5.15	31.03
MW-20-15	7/8/2009	5.71	11:45	--	--	--	--	--	--	--	--	--
			11:55	170	5.80	0.09	5.13	18.31	0.582	253	6.20	300
			12:05	170	5.80	0.09	5.23	17.54	0.577	259	7.16	149
			12:15	170	5.80	0.09	5.23	17.54	0.587	268	8.59	116
			12:25	170	5.80	0.09	5.24	18.57	0.584	267	7.64	54.4
			12:35	170	5.80	0.09	5.23	18.57	0.557	265	7.82	34.5
			12:45	170	5.80	0.09	5.26	18.34	0.592	251	8.06	26.2
			13:00	170	5.80	0.09	5.30	18.20	0.583	229	8.19	20.8
			13:10	170	5.80	0.09	5.32	19.07	0.597	215	8.40	20.3
			13:20	170	5.80	0.09	5.31	18.53	0.596	208	8.39	20.5
			13:30	170	5.80	0.09	5.33	18.49	0.595	207	8.44	20.3
MW-22-S	7/9/2009	5.80	12:50	--	--	--	--	--	--	--	--	--
			13:15	400	5.85	0.05	8.09	14.0	0.194	-73	3.99	10.75
			13:30	400	5.85	0.05	8.98	14.1	0.255	-85	3.66	3.62
			13:40	400	5.85	0.05	9.71	14.1	0.259	-89	3.52	1.84
			13:50	400	5.85	0.05	9.32	14.2	0.281	-93	3.60	1.13
			14:00	400	5.85	0.05	9.32	14.2	0.306	-95	3.56	--
			14:10	400	5.85	0.05	9.27	14.2	0.491	-101	3.56	--
			14:20	400	5.85	0.05	9.27	14.2	0.334	-102	3.53	--
MW-23-S	7/9/2009	9.35	9:10	--	9.35	0.00	--	--	--	--	--	--
			9:20	300	9.41	0.06	5.91	14.65	0.470	209	2.90	46.1
			9:40	300	9.41	0.06	5.88	14.54	0.705	200	1.95	13.1
			9:50	300	9.41	0.06	5.89	14.52	0.653	201	1.93	11.3
			10:00	300	9.41	0.06	5.90	14.66	0.658	199	3.23	11.6
			10:10	300	9.41	0.06	5.91	14.49	0.640	201	4.14	12.1
			10:30	300	9.41	0.06	5.99	15.50	0.648	201	2.27	9.3
			10:40	300	9.41	0.06	5.95	15.31	0.634	203	2.07	9.7
			10:50	300	9.41	0.06	5.92	15.07	0.657	203	1.55	9.5
			11:00	300	9.41	0.06	5.92	15.93	0.636	204	1.50	10.2
			11:05	300	9.41	0.06	5.95	16.73	0.636	203	1.45	10.5
MW-24-S	6/9/2009	4.08	10:50	200	4.16	0.08	8.02	15.28	0.454	-63	0.15	8
			11:00	200	4.52	0.44	8.14	15.35	0.442	-91	0.00	4
			11:10	200	4.44	0.36	8.72	15.32	0.435	-112	0.00	4

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	Date	Initial Depth (ft BTOR)	Time	Pumping Rate (mL/min)	Depth to Water (ft BTOR)	Drawdown (feet)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			11:20	200	4.48	0.40	8.34	15.25	0.432	-135	0.00	3
			11:30	200	4.47	0.39	8.52	15.21	0.430	-155	0.00	3
			11:40	200	4.48	0.40	8.62	15.15	0.429	-167	0.00	3
			11:50	200	4.47	0.39	8.60	15.12	0.426	-167	0.00	3
			12:00	200	4.47	0.39	8.57	15.10	0.426	-169	0.00	3
MW-25-S	7/22/2009	3.26	11:35	100	3.80	0.54	8.26	19.7	0.093	-128	0.81	297
			11:40	100	3.81	0.55	6.54	18.8	0.127	-63	0.00	--
			11:45	100	3.85	0.59	6.56	19.0	0.128	-68	0.00	288
			11:50	100	4.10	0.84	6.52	19.4	0.130	-73	0.00	267
			11:55	100	4.35	1.09	6.45	19.5	0.133	-67	0.00	227
			12:05	100	4.48	1.22	6.49	18.0	0.134	-69	0.00	151
			12:10	100	4.50	1.24	6.39	17.0	0.134	-71	0.00	94.1
			12:20	100	4.51	1.25	6.34	16.9	0.134	-73	0.00	76.0
			12:30	100	4.51	1.25	6.36	16.8	0.136	-81	0.00	67.7
			12:40	100	4.53	1.27	6.36	16.9	0.137	-84	0.00	68.8
MW-26-S	7/10/2009	7.4	9:00	--	7.40	0.00	--	--	--	--	--	--
			9:15	90	8.00	0.60	5.55	17.02	0.194	160	0.99	12.20
			9:35	90	8.00	0.60	5.64	17.25	0.523	134	0.63	5.62
			10:00	90	8.00	0.60	5.67	17.53	0.999	101	0.70	5.64
			10:15	90	8.00	0.60	5.68	17.94	2.240	90	0.74	0.00
			10:20	90	8.00	0.60	5.69	17.98	0.999	--	1.85	0.00
			10:30	90	8.00	0.60	5.70	17.98	0.999	79	1.76	0.00
			10:40	90	8.00	0.60	5.65	18.13	0.999	76	1.67	0.00
			10:50	90	8.00	0.60	5.73	18.14	1.100	73	1.69	0.00
MW-27-S	7/21/2009	1.58	9:45	190	1.62	0.04	6.76	17.2	0.308	-65	2.83	231
			9:48	190	1.66	0.08	6.63	17.2	0.216	-31	1.03	220
			9:51	190	1.66	0.08	6.57	16.9	0.203	-26	0.00	165
			9:54	190	1.66	0.08	6.58	16.6	0.198	-6	0.00	132
			9:57	190	1.66	0.08	6.44	16.1	0.202	-2	0.00	91.9
			10:00	190	1.66	0.08	6.39	15.8	0.207	-7	0.00	44.2
			10:03	190	1.66	0.08	6.38	15.8	0.209	-7	0.00	21.0
			10:06	190	1.67	0.09	6.39	15.5	0.218	-13	0.00	16.4
			10:09	190	1.67	0.09	6.38	15.5	0.218	-11	0.00	15.3
			10:12	190	1.67	0.09	6.36	15.4	0.221	-14	0.00	15.0
MW-28-S	7/7/2009	6.45	13:40	--	6.45	0.00	--	--	--	--	--	--
			14:05	350	6.49	0.04	5.18	14.62	0.116	259	1.28	7.3

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	Date	Initial Depth (ft BTOR)	Time	Pumping Rate (mL/min)	Depth to Water (ft BTOR)	Drawdown (feet)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			14:15	350	6.46	0.01	5.23	14.43	0.133	255	1.21	6.1
			14:25	350	6.46	0.01	5.26	14.52	0.142	253	1.16	5.9
			14:35	350	6.46	0.01	5.25	14.49	0.149	253	1.18	0.8
			14:45	350	6.46	0.01	5.24	14.45	0.149	253	1.23	0.9
MW-29-S	7/20/2009	7.44	15:05	--	7.44	0.00	--	--	--	--	--	--
			15:25	100	7.85	0.41	5.57	16.01	0.197	150	2.79	3.83
			15:30	100	7.85	0.41	5.65	16.38	0.225	126	3.93	3.23
			15:40	100	7.85	0.41	5.77	16.02	0.245	124	3.77	3.43
			15:45	100	7.85	0.41	5.70	15.98	0.242	129	3.58	3.28
			15:50	100	7.85	0.41	5.71	15.83	0.241	121	3.73	3.11
			15:55	100	7.85	0.41	5.71	15.98	0.248	125	3.59	3.10
MW-30-S	7/22/2009	5.38	14:00	225	5.55	0.17	6.63	19.4	0.154	33	8.62	31.0
			14:05	225	5.55	0.17	6.26	16.6	0.150	-28	0.00	7.0
			14:10	225	5.55	0.17	6.25	16.6	0.146	-34	0.00	3.3
			14:15	225	5.55	0.17	6.20	16.4	0.144	-51	0.00	8.7
			14:20	225	5.55	0.17	6.28	16.3	0.139	-52	0.00	6.3
MW-31-RS	7/20/2009	3.81	15:45	75	5.16	1.35	7.90	24.3	0.288	78	11.7	194
			15:50	75	5.23	1.42	7.21	23.5	0.353	86	9.03	185
			15:55	75	5.48	1.67	7.33	22.4	0.547	92	9.81	135
			16:00	75	5.56	1.75	7.34	22.3	0.522	95	8.90	112
			16:05	75	5.62	1.81	7.35	21.9	0.472	99	6.12	99
			16:10	75	5.63	1.82	7.44	21.9	0.429	99	6.78	94
			16:15	75	5.62	1.81	7.43	22.1	0.411	99	7.58	75.1
MW-33-S	7/27/2009	2.30	12:00	75	2.30	0.00	--	--	--	--	--	--
			12:10	75	2.50	0.20	4.48	24.41	0.478	172	1.42	46.40
			12:15	75	2.50	0.20	4.44	24.37	0.507	155	1.71	36.40
			12:20	75	2.50	0.20	4.48	24.70	0.564	129	0.91	24.73
			12:25	75	2.50	0.20	4.50	23.23	0.680	104	0.67	24.60
			12:30	75	2.50	0.20	4.53	23.41	0.704	95	0.61	20.60
			12:35	75	2.50	0.20	4.63	23.98	0.761	77	0.63	24.00
			12:45	75	2.50	0.20	4.64	24.28	0.810	60	0.60	24.05
			12:50	75	2.50	0.20	4.68	24.25	0.816	52	0.59	26.63
			12:55	75	2.50	0.20	4.72	24.24	0.827	48	0.58	28.01
			13:00	75	2.50	0.20	4.73	24.40	0.820	44	0.56	28.21

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	Date	Initial Depth (ft BTOR)	Time	Pumping Rate (mL/min)	Depth to Water (ft BTOR)	Drawdown (feet)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
MW-35-S	7/10/2009	4.70	9:05	--	4.70	0.00	--	--	--	--	--	--
			9:22	50	6.02	1.32	4.99	18.32	0.206	188	1.05	7.82
			9:25	50	--	--	5.01	18.35	0.215	189	0.98	5.00
			9:30	50	6.38	1.68	5.01	18.50	0.351	192	0.86	2.64
			9:33	50	--	--	5.01	18.48	0.426	193	0.78	2.45
			10:03	50	7.00	2.30	5.06	19.55	0.416	197	0.88	2.68
			10:06	50	7.00	2.30	5.07	20.03	0.426	198	0.96	2.48
			10:09	50	7.00	2.30	5.08	20.55	0.429	198	0.91	2.53
MW-36-S	7/23/2009	3.00	12:35	200	3.23	0.23	7.11	21.0	0.492	-138	0.00	139
			12:40	200	3.23	0.23	7.02	18.5	0.326	-135	0.00	107
			12:45	200	3.23	0.23	7.05	17.4	0.307	-142	0.00	83.7
			12:50	200	3.23	0.23	7.03	16.4	0.304	-143	0.00	59.0
			12:55	200	3.23	0.23	7.00	16.6	0.300	-141	0.00	35.4
			13:00	200	3.23	0.23	6.76	16.0	0.281	-131	0.00	31.5
			13:05	200	3.23	0.23	6.93	16.2	0.278	-128	0.00	28.2
			13:10	200	3.23	0.23	6.88	16.5	0.274	-120	0.00	29.2
MW-37-S	7/23/2009	4.91	15:35	90	5.97	1.06	6.15	21.6	0.690	97	6.19	51.5
			15:40	90	6.15	1.24	6.38	20.7	0.715	95	2.32	26.2
			15:45	90	6.35	1.44	6.32	20.4	0.707	104	0.91	5.7
			15:50	90	6.40	1.49	6.29	20.3	0.689	105	0.00	0.0
			15:55	90	6.42	1.51	6.25	20.2	0.671	103	0.00	0.0
			16:00	90	6.43	1.52	6.26	20.3	0.662	101	0.00	0.0
MW-38-S	7/7/2009	5.80	13:30	--	--	--	--	--	--	--	--	--
			13:50	400	5.80	0.00	5.60	14.1	0.457	208	4.42	16.0
			14:50	400	5.82	0.02	5.54	14.1	0.407	206	4.34	0
			15:00	400	5.82	0.02	5.74	14.2	0.602	197	4.22	0
			15:10	400	5.82	0.02	6.11	14.2	0.653	197	4.24	0
			15:15	400	5.82	0.02	6.05	14.2	0.756	194	4.16	40.1
			15:35	400	5.82	0.02	6.14	14.1	0.559	199	4.23	11.34
			15:45	400	5.82	0.02	6.05	14.2	0.581	199	4.19	9.61
			15:50	400	5.82	0.02	6.18	14.1	0.625	198	4.18	6.90
MW-39-S	7/7/2009	5.41	9:00	--	5.41	0.00	--	--	--	--	--	--
			9:10	--	5.41	0.00	5.17	13.40	0.488	278	3.52	19.57
			9:30	350	5.41	0.00	5.22	13.60	0.363	278	3.73	4.91
			9:40	350	5.41	0.00	5.25	13.71	0.312	279	3.50	2.79
			9:50	350	5.41	0.00	5.27	13.66	0.336	280	3.50	1.79

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Date*	*Initial Depth (ft BTOR)*	*Time*	*Pumping Rate (mL/min)*	*Depth to Water (ft BTOR)*	*Drawdown (feet)*	*pH*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
			10:00	350	5.41	0.00	5.28	13.55	0.298	281	3.45	1.63
			10:10	350	5.41	0.00	5.30	13.53	0.298	282	3.48	1.33
			10:20	350	5.41	0.00	5.29	13.55	0.303	283	3.41	1.43
			10:25	350	5.41	0.00	5.30	13.32	0.288	286	3.45	1.38
Deep Overburden/Weathered Bedrock												
MW-2-34	6/18/2009	3.03	10:30	100	3.51	0.48	6.74	13.71	0.351	194	2.56	2.61
			10:50	100	3.72	0.69	6.95	13.66	0.245	168	1.15	1.64
			11:10	100	3.81	0.78	7.05	13.76	0.235	152	0.80	1.15
			11:30	100	3.82	0.79	7.10	13.65	0.235	145	0.75	1.64
			11:40	100	3.80	0.77	7.11	13.81	0.234	142	0.89	1.13
			11:50	100	3.77	0.74	7.13	13.75	0.233	139	0.67	1.08
			12:00	100	3.78	0.75	7.14	13.73	0.232	136	0.68	1.11
			12:10	100	3.78	0.75	7.15	13.67	0.232	133	0.87	0.98
			12:20	100	3.76	0.73	7.16	14.03	0.239	126	0.72	1.16
			12:40	100	3.78	0.75	7.17	13.88	0.260	119	0.46	0.87
			12:45	100	3.78	0.75	7.17	13.69	0.248	118	0.43	0.96
			12:50	100	3.78	0.75	7.18	13.45	0.242	117	0.57	1.07
			13:00	100	3.78	0.75	7.22	13.62	0.247	122	0.62	1.09
			13:10	100	3.78	0.75	7.20	13.16	0.238	119	0.57	1.16
MW-3-42	6/23/2009	2.60	11:40	100	2.60	0.00	--	--	--	--	--	--
			11:55	100	2.90	0.30	6.83	14.01	0.277	-108	0.17	24.5
			12:05	100	2.93	0.33	7.12	13.92	0.270	-140	0.00	8.70
			12:20	100	2.93	0.33	6.89	14.46	0.276	-155	1.71	5.10
			12:30	100	2.93	0.33	7.00	14.10	0.267	-159	0.00	5.00
			12:40	100	2.93	0.33	7.01	14.20	0.266	-162	0.00	4.81
MW-3-I	6/24/2009	3.20	8:20	50	3.20	0.00	--	--	--	--	--	--
			8:30	50	4.10	0.90	5.94	14.17	0.274	77	1.82	29.60
			8:40	50	--	--	6.19	14.14	0.258	32	1.49	28.10
			8:55	50	4.18	0.98	6.20	14.15	0.249	14	1.21	14.48
			9:05	50	4.25	1.05	6.39	14.20	0.257	0	--	12.31
			9:15	50	--	--	6.40	14.18	0.256	-5	0.51	10.70
			9:25	50	--	--	6.49	14.20	0.255	-9	2.36	10.86
			9:35	50	4.25	1.05	6.52	14.31	0.254	-11	0.35	7.69
			9:45	50	4.25	1.05	6.47	14.40	1.255	-11	0.99	7.39
			9:55	50	4.25	1.05	6.46	14.44	1.259	-7	0.75	7.25

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Date*	*Initial Depth (ft BTOR)*	*Time*	*Pumping Rate (mL/min)*	*Depth to Water (ft BTOR)*	*Drawdown (feet)*	*pH*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
MW-12-I	22-Jul-09	6.50	8:50	400	6.50	0.00	--	--	--	--	--	--
			9:00	400	6.55	0.05	6.17	13.46	1.800	-67	2.82	45.6
			9:05	400	6.55	0.05	6.21	13.34	2.000	-69	3.78	28.81
			9:10	400	6.55	0.05	6.22	13.13	1.990	-68	5.09	22.7
			9:15	400	6.55	0.05	6.23	13.12	1.980	-67	5.19	17.31
			9:20	400	6.55	0.05	6.23	13.11	1.980	-66	5.08	15.99
			9:30	400	6.55	0.05	6.23	13.07	2.020	-65	4.82	14.57
			9:35	400	6.55	0.05	6.24	13.19	2.020	-65	4.75	14.64
MW-15R-I	6/11/2009	3.71	13:05	150	3.71	0.00	--	--	--	--	--	--
			13:15	150	3.81	0.10	5.43	14.03	0.181	265	0.35	16.10
			13:25	150	3.81	0.10	5.51	13.74	0.183	249	0.00	5.39
			13:35	150	3.81	0.10	5.63	13.85	0.189	235	3.10	2.18
			13:45	150	3.81	0.10	5.74	14.09	0.201	223	0.00	1.98
			13:55	150	3.81	0.10	5.75	13.96	0.234	213	0.00	2.00
			14:10	150	3.81	0.10	5.83	14.05	0.272	204	3.89	2.50
			14:15	150	3.81	0.10	5.83	14.52	0.190	201	0.00	1.98
			14:20	150	3.81	0.10	5.81	14.63	0.193	199	0.00	0.92
			14:25	150	3.81	0.10	5.83	14.37	0.183	198	0.00	0.00
			14:30	150	3.81	0.10	5.83	14.54	0.183	195	0.00	0.00
MW-24-I	6/9/2009	2.91	15:00	250	3.40	0.49	6.60	12.76	0.187	178	0.41	292
			15:20	250	3.44	0.53	6.61	12.59	0.184	175	0.34	62
			15:40	250	3.42	0.51	6.85	12.54	0.184	136	0.00	28
			16:00	250	3.44	0.53	6.96	12.53	0.183	116	0.00	24
			16:10	250	3.39	0.48	6.99	12.56	0.183	111	0.00	21
			16:20	250	3.40	0.49	7.01	12.53	0.183	107	0.00	15
			16:30	250	3.43	0.52	7.02	12.53	0.183	107	0.00	14
			16:40	250	3.44	0.53	7.03	12.53	0.183	102	0.00	14
MW-28-I	7/7/2009	6.74	13:40	--	6.74	0.00	--	--	--	--	--	--
			14:10	200	6.74	0.00	5.87	12.54	0.535	121	7.55	25.36
			14:20	175	6.74	0.00	5.89	12.61	0.538	130	9.33	14.14
			14:30	175	6.74	0.00	5.92	12.71	0.584	133	3.84	9.42
			14:40	175	6.74	0.00	5.94	12.94	0.587	135	4.06	7.54
			14:50	175	6.74	0.00	5.95	12.18	0.576	136	3.91	5.21
			14:55	175	6.74	0.00	5.96	13.37	0.572	140	4.06	4.78
			15:15	175	6.74	0.00	5.96	13.37	0.576	140	4.03	4.55

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Date*	*Initial Depth (ft BTOR)*	*Time*	*Pumping Rate (mL/min)*	*Depth to Water (ft BTOR)*	*Drawdown (feet)*	*pH*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
MW-29-I	7/21.09	6.70	8:45	175	6.70	0.00	--	--	--	--	--	--
			9:05	175	7.10	0.40	5.78	12.61	0.278	233	10.91	2.92
			9:15	175	7.10	0.40	5.83	12.51	0.319	231	8.60	3.05
			9:20	175	7.10	0.40	5.85	12.49	0.331	233	8.78	1.32
			9:30	175	7.10	0.40	5.92	13.15	0.218	222	10.26	0.00
			9:35	175	7.10	0.40	5.82	12.68	0.109	226	10.58	0.00
			9:45	175	7.10	0.40	5.86	12.33	0.111	231	9.38	0.00
			9:50	175	7.10	0.40	5.87	12.38	0.108	233	9.60	0.00
			9:55	175	7.10	0.40	5.85	12.24	0.107	234	9.80	0.00
MW-32-I	7/23/2009	2.33	14:10	300	2.35	0.02	6.95	26.9	0.229	-79	11.8	37.7
			14:15	350	2.37	0.04	7.06	20.0	0.242	-110	3.0	24.0
			14:20	350	2.37	0.04	7.16	17.3	0.246	-127	0.0	2.0
			14:25	350	2.37	0.04	6.89	16.4	0.247	-120	0.0	0.0
			14:30	350	2.37	0.04	6.84	16.2	0.248	-119	0.0	0.0
MW-34-I	7/23/2009	3.42	7:00	190	3.44	0.02	7.11	18.4	0.739	-125	3.68	5.2
			7:03	190	3.44	0.02	6.78	16.6	0.707	-104	0.00	5.1
			7:06	190	3.44	0.02	6.74	16.3	0.698	-104	0.00	3.4
			7:09	190	3.44	0.02	6.73	16.2	0.690	-106	0.00	4.6
			7:12	190	3.44	0.02	6.76	16.1	0.687	-107	0.00	3.2
			7:15	190	3.44	0.02	6.74	16.0	0.685	-109	0.00	1.7
			7:18	190	3.44	0.02	6.73	15.9	0.684	-109	0.00	1.0
MW-37-I	6/24/2009	4.55	12:10	--	4.55	0.00	--	--	--	--	--	--
			12:23	200	4.70	0.15	6.48	14.69	0.168	24	2.21	0.0
			12:35	150	4.70	0.15	6.42	14.21	0.167	16	0.86	0.0
			12:45	150	4.70	0.15	6.41	14.15	0.167	20	1.59	0.0
			12:55	150	4.70	0.15	6.43	14.20	0.168	18	1.24	0.0
			13:05	150	4.70	0.15	6.45	14.17	0.168	13	1.18	0.0
			13:15	150	4.70	0.15	6.50	14.18	0.171	8	1.17	0.0
MW-38-I	7/7/2009	6.39	12:52	--	--	--	--	--	--	--	--	--
			13:35	400	6.52	0.13	3.89	12.6	0.290	295	0.01	13.1
			13:45	400	6.52	0.13	3.89	12.6	0.289	293	0	4.31
			13:55	400	6.51	0.12	3.90	12.5	0.288	291	0	0
			14:05	400	6.51	0.12	3.91	12.5	0.287	290	0	0
			14:15	400	6.51	0.12	3.91	12.4	0.287	284	0	0
			14:25	400	6.51	0.12	3.91	12.4	0.269	286	0	0

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Date*	*Initial Depth (ft BTOR)*	*Time*	*Pumping Rate (mL/min)*	*Depth to Water (ft BTOR)*	*Drawdown (feet)*	*pH*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
MW-39-I	7/7/2009	5.06	9:10	--	5.06	0.00	--	--	--	--	--	--
			9:15	280	5.09	0.03	5.37	13.01	0.525	254	0.00	2.87
			9:25	280	5.09	0.03	5.40	12.90	0.695	242	0.00	2.58
			9:35	280	5.09	0.03	5.41	13.06	0.825	232	0.92	2.26
			9:45	280	5.09	0.03	5.43	13.14	0.717	224	0.91	1.06
			9:55	280	5.09	0.03	5.44	13.07	0.612	219	0.00	1.29
			10:05	280	5.09	0.03	5.32	13.41	0.629	219	0.00	1.61
			10:15	280	5.09	0.03	5.27	13.46	0.325	217	0.00	1.29
			10:20	280	5.09	0.03	5.35	12.73	0.324	216	0.00	1.39
			10:50	280	5.09	0.03	5.41	12.79	0.345	207	0.00	0.83
			10:55	280	5.09	0.03	5.40	12.78	0.338	207	0.00	0.79
			11:00	280	5.09	0.03	5.42	12.53	0.329	206	0.00	0.78
MW-40-I	7/10/2009	5.25	12:30	--	--	--	--	--	--	--	--	--
			13:35	200	5.40	0.15	4.40	20.1	0.589	-23	0	35.4
			13:40	200	5.40	0.15	4.39	23.3	0.592	-26	0	115.5
			14:50	200	5.42	0.17	4.76	17.3	0.602	-6	0	12.2
			14:56	200	5.42	0.17	4.31	17.8	0.607	-4	0	12.0
			14:59	200	5.42	0.17	4.25	17.1	0.606	1	0.67	16.13
			15:02	200	5.42	0.17	4.31	18.8	0.604	-2	0.39	15.25
			15:05	200	5.42	0.17	4.32	18.7	0.605	-2	0.31	16.37
			15:08	200	5.42	0.17	4.33	19.0	0.610	-3	0.11	13.33
			15:11	200	5.42	0.17	4.33	19.3	0.606	-3	0.09	13.39
MW-41-I	7/20/2009	5.13	11:45	--	5.13	0.00	--	--	--	--	--	--
			11:53	150	5.21	0.08	5.52	18.02	0.157	185	4.48	6.72
			12:05	150	5.21	0.08	5.61	17.42	0.134	179	16.35	15.22
			12:15	150	5.21	0.08	5.60	16.49	0.144	196	12.81	19.83
			12:25	150	5.21	0.08	5.56	16.68	0.132	204	6.55	28.75
			12:35	150	5.21	0.08	5.50	15.86	0.163	213	2.38	14.85
			13:55	150	5.21	0.08	5.53	15.76	0.209	241	1.22	24.20
			14:00	150	5.21	0.08	5.54	15.73	0.207	239	1.20	26.40
			14:05	150	5.21	0.08	5.54	15.77	0.207	239	1.21	26.70
Bedrock Wells												
MW-1-102	6/9/2009	7.45	12:55	100	7.45	0.00	--	--	--	--	--	--
			13:45	100	7.68	0.23	9.22	10.7	1.450	217	1.45	0.0
			13:50	100	--	--	9.22	10.7	1.220	215	1.22	0.0
			13:55	100	--	--	9.20	10.7	1.180	215	1.18	0.0
			14:00	100	--	--	9.22	10.7	1.160	214	1.16	0.0

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Date*	*Initial Depth (ft BTOR)*	*Time*	*Pumping Rate (mL/min)*	*Depth to Water (ft BTOR)*	*Drawdown (feet)*	*pH*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
MW-3-D	6/23/2009	2.20	11:45	50	2.20	0.00	--	--	--	--	--	--
			12:00	50	3.50	1.30	6.79	13.5	0.226	227	4.97	13.5
			12:15	50	4.50	2.30	7.08	5.8	0.224	29	1.62	5.8
			12:25	50	4.55	2.35	7.25	4.0	0.244	-44	0.26	4.0
			12:35	50	4.55	2.35	7.28	2.2	0.286	-53	0.26	2.2
			12:45	50	--	--	7.36	3.5	0.289	-68	0.00	3.4
			13:00	50	4.55	2.35	7.40	3.4	0.271	-84	0.00	0.0
			13:10	50	4.55	2.35	7.43	0.0	0.271	-85	0.00	0.0
			13:20	50	4.53	2.33	7.43	0.0	0.270	-82	0.00	0.0
MW5-58	6/30/2009	5.20	8:30	--	--	--	--	--	--	--	--	--
			9:00	--	--	--	--	--	--	--	--	--
			9:15	50	6.05	0.85	6.03	16.17	0.394	176	10.02	8.9
			9:35	50	6.75	1.55	6.02	16.71	0.385	183	10.41	9.4
			9:45	50	6.70	1.50	6.05	15.70	0.383	178	8.42	0.0
			10:00	50	7.45	2.25	5.98	15.25	0.382	176	10.04	0.0
			10:10	50	7.95	2.75	6.10	15.53	0.390	167	7.77	0.0
			10:20	50	8.22	3.02	6.14	15.50	0.390	162	7.69	0.0
			10:30	50	8.61	3.41	6.14	15.53	0.389	155	7.65	0.0
			10:40	50	8.95	3.75	6.17	15.04	0.390	152	7.97	0.0
			10:50	50	9.40	4.20	6.18	15.89	0.397	148	7.56	0.0
			11:00	50	9.74	4.54	6.20	16.05	0.391	146	7.62	0.0
			11:10	50	9.82	4.62	6.24	17.09	0.393	143	7.84	0.0
			11:25	50	9.82	4.62	6.31	19.65	0.396	137	7.96	0.0
			11:35	50	9.82	4.62	6.41	21.44	0.397	132	7.85	0.0
			11:40	50	9.85	4.65	6.43	21.84	0.397	132	7.92	0.0
			12:20	50	10.90	5.70	--	--	--	--	--	--
			12:30	50	11.20	6.00	6.45	19.96	0.395	126	8.82	0.0
			12:40	50	11.65	6.45	6.38	17.94	0.391	128	8.20	0.0
			12:50	50	12.11	6.91	6.38	17.55	0.390	126	9.08	0.0
			13:00	50	12.13	6.93	6.43	19.07	0.387	123	9.21	0.0
			13:10	50	12.48	7.28	6.48	20.18	0.387	119	9.03	0.0
			13:30	50	13.00	7.80	6.52	20.77	0.388	113	8.99	--
			13:40	50	13.20	8.00	6.55	20.60	0.388	114	9.05	0.0
			13:50	50	14.80	9.60	6.18	13.67	0.391	129	9.51	0.0
			14:00	50	16.40	11.20	6.12	13.45	0.381	132	9.24	0.0
			14:20	50	19.70	14.50	6.09	13.26	0.386	132	8.84	0.0
			15:15	50	20.01	14.81	6.02	13.34	0.382	123	7.29	0.0
			17:00	50	45.30	40.10	6.03	13.57	0.375	123	7.83	0.0
MW-6-75	6/17/2009	4.43	14:25	100	4.38	-0.05	6.62	15.51	0.414	15	4.16	3.91
			14:45	100	4.45	0.02	6.87	15.91	0.423	-39	2.06	2.53
			15:05	100	4.48	0.05	6.74	14.98	0.393	-49	1.17	3.28
			15:25	100	4.48	0.05	6.62	14.70	0.366	-54	0.60	1.96
			15:45	100	4.48	0.05	6.54	14.75	0.363	-56	0.62	1.96

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Date*	*Initial Depth (ft BTOR)*	*Time*	*Pumping Rate (mL/min)*	*Depth to Water (ft BTOR)*	*Drawdown (feet)*	*pH*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
			15:55	100	4.49	0.06	6.52	14.64	0.362	-57	0.45	2.64
			16:05	100	4.49	0.06	6.48	14.70	0.363	-56	0.55	1.96
			16:15	100	4.49	0.06	6.47	14.63	0.361	-57	0.44	1.81
			16:20	100	4.49	0.06	6.46	14.25	0.358	-58	0.41	1.45
			16:25	100	4.49	0.06	6.45	14.07	0.355	-59	0.22	1.29
			16:35	100	4.49	0.06	6.41	14.49	0.352	-61	0.00	1.63
			16:45	100	4.45	0.02	6.39	14.36	0.354	-61	0.05	1.05
			16:55	100	4.45	0.02	6.41	14.14	0.351	-62	0.05	1.07
			17:00	100	4.45	0.02	6.40	14.09	0.350	-63	0.05	0.99
MW-7-80	6/10/2009	2.75	11:00	150	2.75	0.00	--	--	--	--	--	--
			11:10	150	2.75	0.00	7.01	15.1	0.378	284	8.50	17.2
			11:27	150	2.85	0.10	6.94	14.2	0.371	241	2.51	9.6
			11:35	150	2.85	0.10	6.93	14.1	0.371	116	1.57	7.7
			11:45	150	2.85	0.10	6.88	14.2	0.372	52	0.00	2.1
			11:55	150	2.85	0.10	6.83	14.6	0.371	32	0.00	0.8
			12:05	150	2.85	0.10	6.80	14.4	0.370	20	0.00	8.9
			12:15	150	2.85	0.10	6.77	14.5	0.368	12	0.00	14.1
			12:25	150	2.85	0.10	6.76	14.7	0.369	10	0.00	14.5
			12:30	150	2.85	0.10	6.75	14.9	0.368	10	0.00	14.0
MW-8-83	7/1/2009	0.75	10:15	400	0.87	0.12	6.54	14.33	0.396	188	2.25	3.00
			10:35	400	0.98	0.23	6.89	14.40	0.369	117	1.14	0.50
			10:55	400	0.97	0.22	6.98	14.43	0.357	54	0.42	0.50
			11:15	400	0.97	0.22	7.02	14.68	0.351	33	0.23	0.50
			11:35	400	1.01	0.26	7.05	14.69	0.342	24	0.23	0.30
			11:45	400	1.00	0.25	7.05	14.63	0.346	21	0.21	0.50
			11:55	400	1.01	0.26	7.05	14.58	0.346	19	0.21	0.20
MW-9-70	7/6/2009	3.97	14:09	--	--	--	--	--	--	--	--	--
			14:20	175	4.06	0.09	7.60	17.1	0.639	33	5.37	4.31
			14:35	175	4.07	0.10	8.35	17.5	0.999	-1	4.52	4.16
			14:45	175	4.12	0.15	8.53	17.3	1.270	-15	4.25	0.93
			15:10	175	4.12	0.15	8.81	18.4	5.340	-19	3.88	0.85
			15:25	175	4.12	0.15	8.20	17.5	3.660	-29	3.86	0
			15:30	175	4.12	0.15	8.20	16.7	1.940	-30	3.85	0
			15:35	175	4.12	0.15	8.65	18.1	2.520	-36	3.61	0
MW-10-40	7/6/2009	0.65	13:15	175	0.94	0.29	--	--	--	--	--	--
			13:30	175	0.94	0.29	6.24	15.72	0.376	-69	2.27	17.7
			13:40	175	0.94	0.29	6.35	15.29	0.279	-98	8.97	298
			14:05	175	--	--	6.29	15.44	0.225	-106	6.10	357
			14:15	175	--	--	6.37	15.35	0.224	-108	5.77	318
			14:25	175	--	--	6.52	15.36	0.139	-111	0.80	316
			14:35	175	--	--	6.67	15.96	0.229	-120	0.73	99

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Date*	*Initial Depth (ft BTOR)*	*Time*	*Pumping Rate (mL/min)*	*Depth to Water (ft BTOR)*	*Drawdown (feet)*	*pH*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
			14:45	175	--	--	6.77	16.52	0.226	-125	0.70	17.1
			14:55	175	--	--	6.82	16.93	0.227	-125	0.80	17.5
			15:05	175	--	--	6.84	17.71	0.222	-126	0.81	18.3
MW-12-D	7/21/09	Artesian	12:53	50	0	0	--	--	--	--	--	--
			13:10	50	4.25	4.25	5.05	16.41	0.196	-79	0.90	172.3
			13:15	50	--	--	5.09	17.25	0.195	-92	1.01	156
			14:00	50	--	--	5.18	17.92	0.195	-133	0.91	328
			14:10	50	6.30	6.30	5.22	17.92	0.217	-131	0.89	289
			14:20	50	7.04	7.04	5.23	17.78	0.230	-130	0.97	177
			14:30	50	7.40	7.40	5.23	17.29	0.193	-128	0.88	161
			14:40	50	7.85	7.85	5.23	17.86	0.191	-126	0.90	162
			14:55	50	8.45	8.45	5.23	18.03	0.189	-124	0.88	118
			15:10	50	9.11	9.11	5.24	18.03	0.186	-127	0.99	94
			15:35	50	10.05	10.05	5.24	17.81	0.179	-126	1.13	60.8
			15:45	50	10.25	10.25	5.24	17.80	0.175	-125	1.10	60.6
			15:55	50	10.57	10.57	5.24	17.83	0.175	-125	1.13	51.7
MW-13-68	7/22/2009	2.82	16:03	190	3.00	0.18	7.29	25.7	2.000	-131	1.11	0.00
			16:06	190	3.00	0.18	7.74	24.1	2.070	-161	0.00	0.00
			16:09	190	3.04	0.22	7.79	23.5	2.110	-168	0.00	0.00
			16:12	190	3.05	0.23	7.79	23.2	2.120	-165	0.00	0.00
			16:15	190	3.06	0.24	7.69	22.9	2.130	-156	0.00	0.00
			16:18	190	3.06	0.24	7.65	22.8	2.130	-151	0.00	0.00
			16:21	190	3.06	0.24	7.60	22.7	2.130	-144	0.00	0.00
			16:24	190	3.07	0.25	7.56	22.6	2.120	-139	0.00	0.00
MW-15R-D	6/15/2009	1.57	13:55	50	1.57	0.00	--	--	--	--	--	--
			14:05	50	3.10	1.53	6.00	16.81	0.389	9	3.33	37.9
			14:15	50	3.52	1.95	6.24	16.80	0.388	-46	1.13	16.0
			14:25	50	3.70	2.13	6.40	16.80	0.385	-66	0.65	3.2
			14:35	50	3.78	2.21	6.43	17.13	0.390	-83	0.42	0.0
			14:45	50	3.87	2.30	6.41	17.01	0.385	-87	0.38	0.0
			14:55	50	3.87	2.30	6.31	16.62	0.375	-86	0.32	0.0
			15:00	50	3.87	2.30	6.26	16.89	0.375	-85	0.34	0.0
			15:05	50	3.87	2.30	6.23	17.22	0.371	-84	0.34	0.0
MW16-53	7/21/2009	4.17	8:20	50	7.47	3.30	7.46	18.1	0.415	4	19.90	71.5
			8:25	50	7.21	3.04	7.44	17.8	0.430	-23	7.75	35.4
			8:30	50	7.82	3.65	7.46	17.8	0.430	-42	5.73	35.3
			8:35	50	8.61	4.44	7.50	17.3	0.447	-42	5.63	32.0
			8:40	50	9.06	4.89	7.51	17.2	0.447	-56	5.51	27.6
			8:45	50	9.53	5.36	7.53	17.3	0.446	-57	5.27	26.2
							7.53	17.3	0.447	-57	5.20	26.0

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Date*	*Initial Depth (ft BTOR)*	*Time*	*Pumping Rate (mL/min)*	*Depth to Water (ft BTOR)*	*Drawdown (feet)*	*pH*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
MW-17-66	7/23/2009	2.65	10:40	75	4.30	1.65	7.38	21.2	1.86	-48	4.56	0.00
			10:43	75	4.32	1.67	7.73	19.6	1.97	-131	0.00	0.00
			10:46	75	4.34	1.69	7.85	19.6	1.96	-161	0.00	0.00
			10:49	75	4.35	1.70	7.95	19.6	2.17	-184	0.00	0.00
			10:50	75	4.36	1.71	8.01	19.8	2.20	-197	0.00	0.00
			10:53	75	4.37	1.72	8.06	20.0	2.22	-207	0.00	0.00
			10:56	75	4.37	1.72	8.11	20.2	2.25	-214	0.00	0.00
			10:59	75	4.38	1.73	8.11	20.2	2.28	-217	0.00	0.00
			11:02	75	4.38	1.73	8.17	19.5	2.33	-228	0.00	0.00
			11:05	75	4.38	1.73	8.20	18.9	2.35	-233	0.00	0.00
			11:08	75	4.39	1.74	8.22	18.4	2.35	-241	0.00	0.00
			11:11	75	4.39	1.74	8.24	18.2	2.36	-245	0.00	0.00
MW-18-39	7/8/2009	7.20	14:20	175	7.25	0.05	6.21	15.0	17.1	23	7.31	529.7
			14:40	175	7.75	0.55	6.41	13.9	13.7	24	5.71	275.0
			15:05	175	7.78	0.58	5.96	13.4	6.68	66	5.79	135.0
			15:15	175	7.76	0.56	5.69	13.3	5.07	82	5.94	138.1
			15:35	175	8.11	0.91	5.64	12.4	3.79	95	6.04	118.2
			15:50	175	8.02	0.82	5.86	12.7	3.33	94	5.94	90.12
			16:20	175	7.55	0.35	5.91	13.9	3.16	90	5.75	66.56
			16:25	175	7.55	0.35	6.12	14.2	3.09	87	5.74	53.01
			16:30	175	7.55	0.35	6.15	14.3	3.06	87	5.76	52.48
			16:35	175	7.55	0.35	5.99	14.7	3.00	89	5.70	59.49
			16:55	175	7.55	0.35	6.15	--	2.87	--	--	52.24
			17:00	175	7.55	0.35	6.15	14.9	2.82	93	5.73	56.92
MW-20-40	7/8/2009	5.30	11:50	--	5.30	0.00	--	--	--	--	--	--
			12:00	50	7.01	1.71	6.67	19.06	3.780	99	3.19	185
			12:10	50	8.45	3.15	6.58	17.57	3.830	100	2.03	183
			12:20	50	9.25	3.95	6.55	17.50	5.220	101	1.08	164
			12:30	50	10.30	5.00	6.58	19.42	5.170	101	1.69	124
			12:40	50	11.45	6.15	6.57	18.91	3.550	108	1.85	114
			12:50	50	12.30	7.00	6.58	18.70	3.900	107	1.91	80.6
			13:05	50	13.50	8.20	6.57	19.41	3.910	110	2.03	59.4
			13:15	50	14.38	9.08	6.71	20.80	3.670	124	1.98	112
			13:25	50	14.95	9.65	6.58	20.64	4.220	118	1.99	84.2
			13:35	50	15.60	10.30	6.56	21.64	4.800	118	2.08	61.2
			13:55	50	16.65	11.35	6.52	18.43	3.910	123	2.17	55.2
			14:30	50	18.30	13.00	6.54	22.17	3.650	125	2.20	19.8
MW-22-D	7/9/2009	6.16	13:00									
			13:26		9.70	3.54						
			13:32	25	9.65	3.49						
			13:40	25	9.55	3.39						
			13:47	25	9.45	3.29						

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	Date	Initial Depth (ft BTOR)	Time	Pumping Rate (mL/min)	Depth to Water (ft BTOR)	Drawdown (feet)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
			13:50	50								
			13:55	50	9.48	3.32						
			14:10	25	9.98	3.82						
			14:20	25	9.90	3.74						
			14:30	25	9.72	3.56						
			14:35	25	9.70	3.54	6.95	21.2	1.060	-198	0.21	--
			Flow rate too low for sampling; well dewatered and allowed to recharge, then sampled.									
MW-23-D	7/9/2009	7.65	9:15	50	7.65	0.00	--	--	--	--	--	--
			9:25	50	7.95	0.30	6.00	14.61	1.150	-18	2.27	237
			9:45	50	7.95	0.30	5.84	14.94	1.220	-60	0.59	187
			9:55	50	7.95	0.30	5.84	15.08	1.230	-67	0.59	170
			10:05	50	7.95	0.30	5.78	15.37	1.220	-62	0.58	151
			10:15	50	7.95	0.30	5.54	14.79	1.310	-35	0.77	158
			10:25	50	7.95	0.30	5.52	15.86	1.310	-32	0.37	127
			10:35	50	7.95	0.30	5.51	15.61	1.300	-28	0.35	99.3
			10:45	50	7.95	0.30	5.51	15.59	1.310	-25	0.20	87.3
			10:55	50	7.95	0.30	5.48	15.42	1.290	-22	0.18	83.3
			11:10	50	7.95	0.30	5.39	15.97	1.280	-18	0.20	57.1
			11:20	50	7.95	0.30	5.37	15.10	1.270	-16	0.27	54.4
			11:50	50	7.95	0.30	5.35	15.18	1.300	-15	0.47	37.9
			12:00	50	7.95	0.30	5.32	16.91	1.300	-12	0.46	37.6
			12:10	50	7.95	0.30	5.30	16.41	1.310	-10	0.29	35.7
MW-24-D	6/11/2009	0.0	13:40	100	0.10	0.10	6.81	15.67	0.330	116	0.25	48.0
			14:00	100	0.10	0.10	6.66	15.84	0.999	109	0.16	5.0
			14:20	100	0.10	0.10	6.79	15.57	0.697	91	0.00	2.0
			14:40	100	0.15	0.15	6.83	15.76	0.525	78	0.00	1.5
			14:50	100	0.15	0.15	6.85	15.23	0.706	79	0.04	1.5
			15:00	100	0.15	0.15	6.84	14.80	0.449	78	0.00	0.5
			15:10	100	0.15	0.15	6.86	14.66	0.494	82	0.00	0.0
			15:20	100	0.20	0.20	6.86	14.61	0.358	79	0.00	0.0
			15:30	100	0.20	0.20	6.86	14.58	0.356	78	0.00	0.0
			15:40	100	0.20	0.20	6.88	14.91	0.353	76	0.00	0.0
			15:50	100	0.20	0.20	6.88	14.91	0.323	75	0.00	0.0
MW-25-D	7/22/2009	2.10	10:20	85	2.31	0.21	8.43	20.7	0.371	4	3.33	13.4
			10:25	85	2.34	0.24	8.45	17.5	0.400	14	0.08	2.7
			10:30	125	2.34	0.24	8.29	17.0	0.407	24	0.00	1.1
			10:35	200	2.40	0.30	8.11	16.5	0.391	32	0.00	9.2
			10:40	200	2.56	0.46	7.91	15.9	0.353	44	0.00	7.3
			10:45	200	2.46	0.36	7.68	15.9	0.328	50	0.00	5.1
			10:50	225	2.53	0.43	7.59	15.9	0.309	59	0.00	4.8
			10:55	225	2.54	0.44	7.45	15.3	0.288	63	0.00	4.7
			11:00	225	2.54	0.44	7.46	14.8	0.276	68	0.00	3.3

APPENDIX C

MONITORING WELL PURGE RECORDS - JUNE TO AUGUST 2009
ZENECA INC. SITE
DIGHTON, MASSACHUSETTS

Well ID	*Date*	*Initial Depth (ft BTOR)*	*Time*	*Pumping Rate (mL/min)*	*Depth to Water (ft BTOR)*	*Drawdown (feet)*	*pH*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*
			11:05	225	2.55	0.45	7.37	14.8	0.267	72	0.00	3.4
			11:10	225	2.56	0.46	7.22	14.9	0.258	73	0.00	4.4
			11:15	225	2.56	0.46	7.19	14.5	0.250	80	0.00	3.6
			11:20	225	2.56	0.46	7.17	14.4	0.247	79	0.00	3.5
MW-27-D	7/21/2009	1.88	9:00	100	2.30	0.42	7.14	18.3	0.587	-92	3.73	18.8
			9:05	100	2.20	0.32	7.19	16.7	0.623	-56	0.00	15.6
			9:10	150	3.09	1.21	7.16	16.1	0.713	-81	0.00	8.1
			9:15	100	3.11	1.23	7.59	14.7	3.190	-215	0.00	0.0
			9:20	100	3.13	1.25	7.69	14.3	3.310	-269	0.00	0.0
			9:25	100	3.14	1.26	7.72	14.6	3.300	-279	0.00	0.0
			9:30	100	3.15	1.27	7.70	14.7	3.350	-280	0.00	2.9
MW-28-D	7/8/2009	7.32	8:40	--	7.32	0.00	--	--	--	--	--	--
			8:55	200	7.70	0.38	7.10	14.04	3.300	-118	0.83	13.8
			9:05	100	7.63	0.31	7.26	13.86	3.180	-134	0.57	9.6
			9:15	100	7.63	0.31	7.35	13.87	3.060	-139	0.48	11.8
			9:25	100	7.63	0.31	7.41	14.11	3.120	-137	0.57	16.8
			9:30	100	7.63	0.31	7.44	14.04	3.140	-137	0.42	16.7
			9:35	100	7.63	0.31	7.45	14.07	3.090	-137	0.41	16.0
MW-29-D	7/21/2009	artesian	9:15	--	--	--	--	--	--	--	--	--
			9:30	100	--	--	5.14	15.55	0.275	-195	1.10	0.8
			9:35	100	--	--	5.03	13.90	0.335	-139	0.46	0.6
			9:45	100	--	--	4.93	13.47	0.305	-113	0.10	0.0
			9:50	100	--	--	--	13.38	0.348	-108	0.13	0.0
			9:55	100	--	--	4.70	14.94	0.319	-76	0.36	0.0
			10:05	100	--	--	4.80	17.32	0.316	-83	0.51	0.0
			10:25	100	--	--	4.84	13.44	0.330	-85	--	0.0
			10:35	100	--	--	4.87	13.34	0.334	-86	0.17	0.0
			10:45	100	--	--	4.86	13.51	0.332	-85	0.14	0.0
MW-30-D	7/22/2009	2.60	13:15	400	2.65	0.05	6.12	17.7	0.161	6	3.30	22.0
			13:20	400	2.65	0.05	5.40	15.3	0.175	14	0.00	0.0
			13:25	400	2.65	0.05	5.70	13.7	0.175	36	0.00	0.0
			13:30	400	2.65	0.05	5.73	13.5	0.180	36	0.00	0.0
			13:35	400	2.65	0.05	5.71	13.5	0.182	41	0.00	0.0
MW31-D	7/1/2009	artesian	8:25	100	--	--	--	--	--	--	--	--
			8:40	100	--	--	6.85	13.74	0.274	-12	0.69	8.1
			8:50	100	--	--	7.02	13.38	0.279	-29	0.07	0.0
			9:00	100	--	--	7.06	13.34	0.278	-33	0.00	0.0
			9:40	100	--	--	7.18	13.62	0.257	-40	0.00	0.0
			9:55	100	--	--	7.26	13.75	0.265	-45	0.00	0.0
			10:00	100	--	--	7.25	13.58	0.267	-47	0.00	0.0

APPENDIX D

DATA VALIDATION REPORTS

CONESTOGA-ROVERS
& ASSOCIATES

E-Mail Date: March 11, 2010
E-Mail To: John Hoffmann, Jamie Puskas
c.c.: Kathy Willy
E-Mail and Hard Copy if Requested

ANALYTICAL DATA ASSESSMENT AND VALIDATION
GROUNDWATER MONITORING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
OCTOBER 2009

PREPARED BY:
CONESTOGA-ROVERS & ASSOCIATES

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TABLE 2 METHODS SUMMARY

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1.0 INTRODUCTION

The following document details an assessment and validation of analytical data reported for groundwater samples collected from Zeneca, Inc. (Site) located in Dighton, Massachusetts. The samples were collected in October 2009 in support of the Supplemental Resource Conservation and Recovery Act (RCRA) Facilities Investigation.

A sampling and analysis summary is presented in Table 1. The samples were submitted to Test America, Inc. (Test America) in Pittsburgh, Pennsylvania, and Burlington, Vermont. A summary of the methods is presented in Table 2.

A summary of the analytical data is presented in Table 3. These data were validated in accordance with the analytical methods and the documents entitled:

i) "USEPA Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses; Part II. Volatile/Semi-Volatile Data Validation Functional Guidelines (1996)"

ii) "USEPA Region I Laboratory Data Validation Functional Guidelines for Inorganic Analyses (1989)"

iii) "Quality Assurance Project Plan Addendum, Supplemental RCRA Facilities Investigation, Dighton, Massachusetts, July 2003"

Full raw data deliverables were provided by the laboratories. A Tier II validation was performed on the data and the validation findings are presented in the following subsections.

2.0 SAMPLE HOLDING TIMES

Sample holding time and preservation requirements are summarized in the analytical methods. All sample extractions and/or analyses were performed within the specified holding times.

All samples were properly preserved and cooled to 4°C (±2°C) after collection.

3.0 INSTRUMENT CALIBRATION

3.1 GAS CHROMATOGRAPH/MASS SPECTROMETER (GC/MS) CALIBRATION - VOLATILE ORGANIC COMPOUNDS (VOCs) AND SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)

3.1.1 TUNING AND MASS CALIBRATION

Prior to analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the VOC and SVOC methods require the analysis of the specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Instrument tuning data were reviewed. Tuning compounds were analyzed at the required frequency throughout the VOC and SVOC analysis periods. All tuning criteria were met for the analyses, indicating proper optimization of the instrumentation.

3.1.2 INITIAL CALIBRATION

To quantify compounds of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.05

ii) For average response factors are employed, percent relative standard deviation (%RSD) values must not exceed 30 percent.

The initial calibration data for VOCs and SVOCs were reviewed and met the above criteria for linearity and sensitivity.

3.1.3 CONTINUING CALIBRATION

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.05

ii) Percent difference (%D) values must not exceed 25 percent

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity of response.

3.2 GAS CHROMATOGRAPH (GC) CALIBRATION- POLYCHLORINATED BIPHENYLS (PCBs) AND CARBON DIOXIDE

3.2.1 INITIAL CALIBRATION

To quantify compounds of interest, calibration of the GC over a specific concentration range must be performed. Initially, five-point calibration curves are analyzed for all the compounds of interest with the exception of some PCBs. For the PCB analysis, Aroclors 1016 and 1260 are analyzed using a five-point curve and one-point calibration standards are analyzed for the remaining Aroclors.

Linearity of the calibration curves are acceptable if %RSD values are less than or equal to 20 percent or if the correlation coefficient is greater than 0.995. Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

Initial calibration standards were analyzed at the required frequencies. All retention time and linearity criteria were satisfied.

3.2.2 CONTINUING CALIBRATION

To ensure that the calibration of the instrument is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each

compound in all continuing standards and assessed against an acceptance criterion of 15 percent.

To ensure that compound retention times do not vary over the analysis period, all retention times must fall within the established retention time windows.

Continuing calibration standards were analyzed at the required frequency and all method criteria were met for analyte linearity.

3.3 INSTRUMENTAL CALIBRATION - METALS AND GENERAL CHEMISTRY

3.3.1 INITIAL CALIBRATION

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For trace inductively coupled plasma (ICP) analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury analyses, a calibration blank and a minimum of four standards must be analyzed to establish the analytical curve. For general chemistry, calibration is performed based on the analysis of at least three standards and a blank. Resulting correlation coefficients for curves must be at least 0.995.

After calibration, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Instrument	*Inorganic Species*	*Control Limits (Percent)*
ICP	Metals	90 - 110
Cold Vapor Atomic Absorption (AA)	Mercury	80 - 120
Ion Chromatography	Nitrate/Nitrite/Chloride/Sulfate	85 - 115
Potentiometric/Spectrophotometric	Ammonia/Dissolved Organic Carbon	85 - 115

Upon review of the data, it was determined that all inorganic calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that instrumentation used for these analyses were properly calibrated prior to sample analyses.

3.3.2 CONTINUING CALIBRATION

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

3.3.3 CONTRACT REQUIRED DETECTION LIMIT (CRDL) STANDARD ANALYSES

To verify the linearity of the ICP calibration near the detection limit, a standard is analyzed which contains the ICP analytes at specified concentrations. This standard must be analyzed at the beginning and end of each sample analysis run or a minimum of twice per 8-hour working shift.

Control limits of 80-120 percent were used to evaluate the data. The CRDL recoveries were acceptable.

4.0 SURROGATE SPIKE RECOVERIES - ORGANICS

In accordance with the methods employed, all samples, blanks, and standards analyzed for VOCs, SVOCs, and PCBs are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against method control limits. For the SVOC method, it is acceptable for one surrogate recovery per fraction (base neutral or acid phenolic) to fall outside of these limits, provided it is greater than 10 percent.

All surrogate recoveries were within the laboratory control limits.

5.0 INTERNAL STANDARD (IS) RECOVERIES - VOCs AND SVOCs

To correct for changes in GC/MS response and sensitivity, IS compounds are added to investigative samples and quality control samples prior to VOC and SVOC analyses. All results are calculated as a ratio of the IS response. The criteria by which the IS results are assessed are as follows:

i) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

ii) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard.

All sample IS results met the above criteria and were used to calculate all positive sample results.

6.0 METHOD BLANK ANALYSES

Method blanks are prepared from deionized water and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures. Additionally, continuing calibration blanks (CCBs) are routinely analyzed after each CCV for the inorganic parameters.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch and CCBs were analyzed for inorganic parameters after each CCV. The data were non-detect for the analytes of interest.

7.0 LABORATORY CONTROL SAMPLE (LCS) ANALYSES

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch. Some LCSs were prepared in duplicate to assess analytical precision.

LCSs were prepared and analyzed for all parameters and all recoveries were within the acceptable limits.

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

MS/MSD samples are prepared using a representative subset of analytes for each parameter and analyzed with each sample batch for all parameters. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD are used to assess analytical precision.

Site specific MS/MSD analyses were not performed.

9.0 ICP SERIAL DILUTION

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of one per 20 investigative samples is analyzed at a five-fold dilution. For samples with sufficient analyte concentrations, the serial dilution results must agree within 20 percent of the original results.

Serial dilutions were performed and the results were acceptable.

10.0 ICP INTERFERENCE CHECK SAMPLE (ICS) ANALYSIS

To verify that proper inter-element and background correction factors have been established by the laboratory, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period.

ICS analysis results were evaluated for all samples. All ICS recoveries were within the established control limits of 80 to 120 percent.

11.0 FIELD QC

Field QC was not submitted.

12.0 ANALYTE REPORTING

Non-detect data were reported down to the laboratory's method detection limits (MDLs) for each analyte. Positive analyte detections less than the practical quantitation limit (PQL) but greater than the MDL were qualified as estimated (J).

13.0 CONCLUSION

Based on the assessment detailed in the foregoing, the data summarized in Table 3 are acceptable without qualification.

ATTACHMENT A

TABLES

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
OCTOBER 2009

				Analysis/Parameters							
Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*Collection Time*	*VOCs*	*SVOCs*	*PCBs*	*Carbon dioxide*	*TAL Metals (total and dissolved)*	*Dissolved Organic Carbon*	*Ammonia, Alkalinity*	*Nitrate, Nitrite, Sulfate, Chloride,*
GW-15620-100609-SD-001	MW-37 S	10/06/09	13:00	X	X	X	X	X	X	X	X
GW-15620-100609-SD-002	MW-37 I	10/06/09	14:45	X	X	X	X	X	X	X	X
GW-15620-100709-SD-003	MW-10-14	10/07/09	12:20	X	X	X	X	X	X	X	X
GW-15620-100709-SD-004	MW-10-40	10/07/09	14:00	X	X	X	X	X	X	X	X

Notes:

VOCs Volatile Organic Compounds
SVOCs Semi-volatile Organic Compounds
PCBs Polychlorinated biphenyls
TAL Target Analyte List

TABLE 2

METHODS SUMMARY
GROUNDWATER MONITORING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
OCTOBER 2009

Parameter	*Methodology*
TCL VOCs	SW-846 8260[1]
TCL SVOCs	SW-846 8270[1]
PCBs	SW-846 8082[1]
TAL Metals (total and dissolved)	SW-846 6010/7000[1]
Chloride	EPA 300[2]
Ammonia, as nitrogen	EPA 350[2]
Nitrate/Nitrite	EPA 300[2]
Phosphorous (total)	EPA 365[2]
Sulfate	EPA 300[2]
Carbon Dioxide	RSK175
Dissolved Organic Carbon	SW-846 9060[1]
Alkalinity	SM 2320B

Notes:

1 "Test Methods for Solid Waste Physical/Chemical Methods", SW-846, 3rd Edition, September 1986 (with all subsequent revisions).

2 "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-220, March 1983.

3 Massachusetts Department of Environmental Protection, Division of Environmental Analysis, Jan 1998.

PCBs Polychlorinated Biphenyls.

SVOCs Semi-Volatile Organic Compounds.

TCL Target Compound List.

VOCs Volatile Organic Compounds.

TAL Target Analyte List

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
OCTOBER 2009

	Sample Location:	*MW-10-14*	*MW-10-40*	*MW-37-I*	*MW-37-S*
	Sample ID:	*GW-15620-100709-SD-003*	*GW-15620-100709-SD-004*	*GW-15620-100609-SD-002*	*GW-15620-100609-SD-001*
	Sample Date:	*10/7/2009*	*10/7/2009*	*10/6/2009*	*10/6/2009*
Parameter	*Units*				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	ND (7.2)	ND (0.29)	ND (14)	ND (29)
1,1,2,2-Tetrachloroethane	µg/L	ND (5.0)	ND (0.20)	ND (10)	ND (20)
1,1,2-Trichloroethane	µg/L	ND (5.0)	ND (0.20)	ND (10)	ND (20)
1,1-Dichloroethane	µg/L	ND (2.9)	ND (0.12)	ND (5.8)	ND (12)
1,1-Dichloroethene	µg/L	ND (7.4)	ND (0.30)	ND (15)	ND (30)
1,2,3-Trichlorobenzene	µg/L	ND (3.9)	ND (0.15)	ND (7.7)	ND (15)
1,2,4-Trichlorobenzene	µg/L	ND (6.8)	ND (0.27)	61	36 J
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (3.5)	ND (0.14)	ND (7.0)	ND (14)
1,2-Dibromoethane (Ethylene dibromide)	µg/L	ND (4.5)	ND (0.18)	ND (9.0)	ND (18)
1,2-Dichlorobenzene	µg/L	ND (3.8)	0.31 J	320	130
1,2-Dichloroethane	µg/L	ND (5.3)	ND (0.21)	ND (11)	ND (21)
1,2-Dichloropropane	µg/L	ND (2.4)	ND (0.095)	ND (4.7)	ND (9.5)
1,3-Dichlorobenzene	µg/L	ND (2.6)	0.50 J	460	ND (11)
1,4-Dichlorobenzene	µg/L	ND (5.2)	1.9	1400	44 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	ND (14)	ND (0.55)	ND (27)	ND (55)
2-Hexanone	µg/L	ND (4.0)	ND (0.16)	ND (8.0)	ND (16)
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	ND (13)	ND (0.53)	ND (26)	ND (53)
Acetone	µg/L	ND (62)	ND (2.5)	ND (120)	ND (250)
Benzene	µg/L	ND (2.6)	ND (0.11)	ND (5.3)	26 J
Bromodichloromethane	µg/L	ND (3.2)	ND (0.13)	ND (6.5)	ND (13)
Bromoform	µg/L	ND (4.8)	ND (0.19)	ND (9.6)	ND (19)
Bromomethane (Methyl bromide)	µg/L	ND (7.8)	ND (0.31)	ND (16)	ND (31)
Carbon disulfide	µg/L	ND (5.3)	ND (0.21)	ND (11)	ND (21)
Carbon tetrachloride	µg/L	ND (3.4)	ND (0.14)	ND (6.8)	ND (14)
Chlorobenzene	µg/L	ND (3.4)	0.19 J	390	1800
Chloroethane	µg/L	ND (5.4)	ND (0.21)	ND (11)	ND (21)
Chloroform (Trichloromethane)	µg/L	ND (4.3)	ND (0.17)	ND (8.5)	ND (17)
Chloromethane (Methyl chloride)	µg/L	ND (7.1)	ND (0.28)	ND (14)	ND (28)
Volatile Organic Compounds (Cont'd.)					
cis-1,2-Dichloroethene	µg/L	33	ND (0.24)	ND (12)	ND (24)
cis-1,3-Dichloropropene	µg/L	ND (4.7)	ND (0.19)	ND (9.3)	ND (19)
Cyclohexane	µg/L	ND (6.4)	ND (0.25)	ND (13)	ND (25)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
OCTOBER 2009

	Sample Location:	*MW-10-14*	*MW-10-40*	*MW-37-I*	*MW-37-S*
	Sample ID:	*GW-15620-100709-SD-003*	*GW-15620-100709-SD-004*	*GW-15620-100609-SD-002*	*GW-15620-100609-SD-001*
	Sample Date:	*10/7/2009*	*10/7/2009*	*10/6/2009*	*10/6/2009*
Parameter	***Units***				
Dibromochloromethane	µg/L	ND (3.4)	ND (0.14)	ND (6.8)	ND (14)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (4.8)	ND (0.19)	ND (9.6)	ND (19)
Ethylbenzene	µg/L	ND (5.7)	ND (0.23)	ND (11)	ND (23)
Isopropyl benzene	µg/L	ND (4.1)	ND (0.16)	ND (8.2)	ND (16)
Methyl acetate	µg/L	ND (3.4)	ND (0.14)	ND (6.9)	ND (14)
Methyl cyclohexane	µg/L	ND (6.5)	ND (0.26)	ND (13)	ND (26)
Methyl tert butyl ether (MTBE)	µg/L	ND (4.6)	ND (0.18)	ND (9.2)	ND (18)
Methylene chloride	µg/L	8.6 J	ND (0.15)	ND (7.5)	ND (15)
Styrene	µg/L	ND (2.4)	ND (0.097)	ND (4.8)	ND (9.7)
Tetrachloroethene	µg/L	ND (3.7)	ND (0.15)	ND (7.4)	ND (15)
Toluene	µg/L	ND (3.8)	ND (0.15)	ND (7.5)	53 J
trans-1,2-Dichloroethene	µg/L	ND (4.2)	ND (0.17)	ND (8.5)	ND (17)
trans-1,3-Dichloropropene	µg/L	ND (3.7)	ND (0.15)	ND (7.4)	ND (15)
Trichloroethene	µg/L	480	ND (0.14)	ND (7.2)	ND (14)
Trichlorofluoromethane (CFC-11)	µg/L	ND (5.0)	ND (0.20)	ND (9.9)	ND (20)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (8.0)	ND (0.32)	ND (16)	ND (32)
Vinyl chloride	µg/L	ND (5.7)	ND (0.23)	ND (11)	ND (23)
Xylene (total)	µg/L	ND (12)	ND (0.49)	ND (24)	ND (49)
Semi-Volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	ND (0.34)	ND (0.33)	ND (0.33)	ND (0.33)
2,4,5-Trichlorophenol	µg/L	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.14)
2,4,6-Trichlorophenol	µg/L	ND (0.089)	ND (0.086)	ND (0.085)	ND (0.086)
2,4-Dichlorophenol	µg/L	ND (0.13)	ND (0.13)	0.49 J	ND (0.13)
2,4-Dimethylphenol	µg/L	ND (0.079)	ND (0.076)	ND (0.076)	ND (0.076)
Semi-Volatile Organic Compounds (Cont'd.)					
2,4-Dinitrophenol	µg/L	ND (6.0)	ND (5.8)	ND (5.8)	ND (5.8)
2,4-Dinitrotoluene	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	µg/L	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.18)
2-Chloronaphthalene	µg/L	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.14)
2-Chlorophenol	µg/L	ND (0.21)	ND (0.20)	ND (0.20)	4.9 J
2-Methylnaphthalene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
2-Methylphenol	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
OCTOBER 2009

	Sample Location:	*MW-10-14*	*MW-10-40*	*MW-37-I*	*MW-37-S*
	Sample ID:	*GW-15620-100709-SD-003*	*GW-15620-100709-SD-004*	*GW-15620-100609-SD-002*	*GW-15620-100609-SD-001*
	Sample Date:	*10/7/2009*	*10/7/2009*	*10/6/2009*	*10/6/2009*
Parameter	*Units*				
2-Nitroaniline	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
2-Nitrophenol	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	1.0 J
3,3'-Dichlorobenzidine	µg/L	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
3-Nitroaniline	µg/L	ND (0.25)	ND (0.25)	ND (0.24)	ND (0.25)
4,6-Dinitro-2-methylphenol	µg/L	ND (7.6)	ND (7.4)	ND (7.3)	ND (7.4)
4-Bromophenyl phenyl ether	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
4-Chloro-3-methylphenol	µg/L	ND (0.25)	ND (0.24)	ND (0.24)	ND (0.24)
4-Chloroaniline	µg/L	ND (1.1)	ND (1.0)	ND (1.0)	ND (1.0)
4-Chlorophenyl phenyl ether	µg/L	ND (0.10)	ND (0.099)	ND (0.098)	ND (0.099)
4-Methylphenol	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
4-Nitroaniline	µg/L	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.22)
4-Nitrophenol	µg/L	ND (6.9)	ND (6.7)	ND (6.6)	ND (6.7)
Acenaphthene	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Acenaphthylene	µg/L	ND (0.083)	ND (0.080)	ND (0.080)	ND (0.080)
Acetophenone	µg/L	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.21)
Aniline	µg/L	ND (0.40)	ND (0.39)	ND (0.38)	1000
Anthracene	µg/L	ND (1.0)	ND (0.99)	ND (0.98)	ND (0.99)
Atrazine	µg/L	ND (0.20)	ND (0.19)	ND (0.19)	ND (0.19)
Benzaldehyde	µg/L	ND (0.49)	ND (0.48)	ND (0.47)	ND (0.48)
Benzo(a)anthracene	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Benzo(a)pyrene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Semi-Volatile Organic Compounds (Cont'd.)					
Benzo(b)fluoranthene	µg/L	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)
Benzo(g,h,i)perylene	µg/L	ND (0.085)	ND (0.082)	ND (0.081)	ND (0.082)
Benzo(k)fluoranthene	µg/L	ND (0.16)	ND (0.16)	ND (0.15)	ND (0.16)
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.15)
bis(2-Chloroethoxy)methane	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
bis(2-Chloroethyl)ether	µg/L	ND (0.26)	ND (0.25)	ND (0.25)	ND (0.25)
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	ND (0.45)	ND (0.44)	ND (0.43)	ND (0.44)
Butyl benzylphthalate (BBP)	µg/L	ND (3.0)	ND (2.9)	ND (2.9)	ND (2.9)
Caprolactam	µg/L	ND (7.1)	ND (6.9)	ND (6.8)	ND (6.9)
Carbazole	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Chrysene	µg/L	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.10)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
OCTOBER 2009

	Sample Location:	*MW-10-14*	*MW-10-40*	*MW-37-I*	*MW-37-S*
	Sample ID:	*GW-15620-100709-SD-003*	*GW-15620-100709-SD-004*	*GW-15620-100609-SD-002*	*GW-15620-100609-SD-001*
	Sample Date:	*10/7/2009*	*10/7/2009*	*10/6/2009*	*10/6/2009*
Parameter	***Units***				
Dibenz(a,h)anthracene	µg/L	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Dibenzofuran	µg/L	ND (0.18)	ND (0.18)	ND (0.17)	ND (0.18)
Diethyl phthalate	µg/L	ND (0.44)	ND (0.43)	ND (0.42)	ND (0.43)
Dimethyl phthalate	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)
Di-n-butylphthalate (DBP)	µg/L	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.28)
Di-n-octyl phthalate (DnOP)	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Fluoranthene	µg/L	ND (0.098)	ND (0.095)	ND (0.094)	ND (0.095)
Fluorene	µg/L	ND (0.097)	ND (0.094)	ND (0.093)	ND (0.094)
Hexachlorobenzene	µg/L	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)
Hexachlorobutadiene	µg/L	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)
Hexachlorocyclopentadiene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Hexachloroethane	µg/L	ND (0.075)	ND (0.073)	ND (0.072)	ND (0.073)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)
Isophorone	µg/L	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.27)
Naphthalene	µg/L	ND (0.27)	ND (0.26)	3.6	ND (0.26)
Nitrobenzene	µg/L	ND (0.18)	ND (0.17)	14	8000
N-Nitrosodi-n-propylamine	µg/L	ND (0.38)	ND (0.37)	ND (0.36)	ND (0.37)
Semi-Volatile Organic Compounds (Cont'd.)					
N-Nitrosodiphenylamine	µg/L	ND (0.48)	ND (0.46)	ND (0.46)	ND (0.46)
Pentachlorophenol	µg/L	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.8)
Phenanthrene	µg/L	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.27)
Phenol	µg/L	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.22)
Pyrene	µg/L	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)
Metals					
Aluminum	µg/L	810	144	41.2	88.1
Aluminum (dissolved)	µg/L	50.0	ND (9.7)	ND (9.7)	13.7
Antimony	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (dissolved)	µg/L	2.7	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	µg/L	17.0	27.1	11.2	ND (2.7)
Arsenic (dissolved)	µg/L	20.2	25.8	13.1	ND (2.7)
Barium	µg/L	10.8	14.0	6.8	32.0
Barium (dissolved)	µg/L	4.6	12.8	7.0	31.9

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
OCTOBER 2009

	Sample Location:	*MW-10-14*	*MW-10-40*	*MW-37-I*	*MW-37-S*
	Sample ID:	*GW-15620-100709-SD-003*	*GW-15620-100709-SD-004*	*GW-15620-100609-SD-002*	*GW-15620-100609-SD-001*
	Sample Date:	*10/7/2009*	*10/7/2009*	*10/6/2009*	*10/6/2009*
Parameter	*Units*				
Beryllium	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Beryllium (dissolved)	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Cadmium	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (dissolved)	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	µg/L	14100	25300	13800	27800
Calcium (dissolved)	µg/L	13400	25300	14700	30200
Chromium	µg/L	1.6	ND (0.57)	ND (0.57)	ND (0.57)
Chromium Total (dissolved)	µg/L	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)
Cobalt	µg/L	0.74	0.69	10.6	17.0
Cobalt (dissolved)	µg/L	ND (0.40)	0.88	11.0	19.6
Copper	µg/L	14.5	3.4	ND (2.7)	3.0
Copper (dissolved)	µg/L	3.7	ND (2.7)	ND (2.7)	ND (2.7)
Iron	µg/L	1480	4310	4420	1030
Metals (Cont'd.)					
Iron (dissolved)	µg/L	342	3820	3970	324
Lead	µg/L	8.4	1.3	ND (1.3)	ND (1.3)
Lead (dissolved)	µg/L	ND (1.3)	1.3	ND (1.3)	ND (1.3)
Magnesium	µg/L	1440	4310	2460	10700
Magnesium (dissolved)	µg/L	1470	4340	2600	11400
Manganese	µg/L	446	958	4020	1170
Manganese (dissolved)	µg/L	462	989	4210	1290
Mercury	µg/L	0.043	ND (0.038)	ND (0.038)	ND (0.038)
Mercury (dissolved)	µg/L	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	µg/L	1.7	ND (1.6)	ND (1.6)	6.1
Nickel (dissolved)	µg/L	ND (1.6)	ND (1.6)	ND (1.6)	6.6
Potassium	µg/L	2320	1190	1490	1990
Potassium (dissolved)	µg/L	1810	1090	1720	2150
Selenium	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (dissolved)	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	µg/L	ND (0.68)	ND (0.68)	0.71	ND (0.68)
Silver (dissolved)	µg/L	0.80	ND (0.68)	ND (0.68)	ND (0.68)
Sodium	µg/L	52000	9280	8530	46900
Sodium (dissolved)	µg/L	53100	9330	9080	51900

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
OCTOBER 2009

	Sample Location:	*MW-10-14*	*MW-10-40*	*MW-37-I*	*MW-37-S*
	Sample ID:	*GW-15620-100709-SD-003*	*GW-15620-100709-SD-004*	*GW-15620-100609-SD-002*	*GW-15620-100609-SD-001*
	Sample Date:	*10/7/2009*	*10/7/2009*	*10/6/2009*	*10/6/2009*
Parameter	***Units***				
Thallium	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
Thallium (dissolved)	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
Vanadium	µg/L	5.9	ND (1.9)	ND (1.9)	ND (1.9)
Vanadium (dissolved)	µg/L	4.1	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	µg/L	7.9	3.5	ND (2.5)	7.0
Zinc (dissolved)	µg/L	ND (2.5)	ND (2.5)	3.5	10.3

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
OCTOBER 2009

	Sample Location:	*MW-10-14*	*MW-10-40*	*MW-37-I*	*MW-37-S*
	Sample ID:	*GW-15620-100709-SD-003*	*GW-15620-100709-SD-004*	*GW-15620-100609-SD-002*	*GW-15620-100609-SD-001*
	Sample Date:	*10/7/2009*	*10/7/2009*	*10/6/2009*	*10/6/2009*
Parameter	***Units***				
Polychlorinated Biphenyls					
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0026)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0026)	ND (0.0024)	ND (0.0023)	ND (0.0024)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0030)	ND (0.0028)	ND (0.0028)	ND (0.0028)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0019)	ND (0.0018)	ND (0.0017)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	ND (0.0024)	ND (0.0022)	ND (0.0021)	ND (0.0022)
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0024)	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0014)	ND (0.0013)	ND (0.0013)	0.080
Gases					
Carbon dioxide	µg/L	1200	5400	12000	43000
General Chemistry					
Alkalinity, total (as CaCO3)	mg/L	142	86.8	49.1 J	ND (0.41)
Ammonia	mg/L	0.41	0.49	0.76	0.71
Chloride	mg/L	5.6	9.1	9.4	91.3
Dissolved organic carbon (DOC) (dissolved)	mg/L	3.8	2.4	2.3	10.6
Nitrate (as N)	mg/L	0.13	ND (0.0077)	ND (0.0077)	ND (0.0077)
Nitrite (as N)	mg/L	0.21	0.18	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	5.5	5.7	19.3	99.3

Notes:

J - Estimated.
ND - Non-detect at associated value.

CONESTOGA-ROVERS
& ASSOCIATES

E-Mail Date: November 9, 2009
E-Mail To: John Hoffmann, Jamie Puskas
E-Mail and Hard Copy if Requested

ANALYTICAL DATA ASSESSMENT AND VALIDATION
GROUNDWATER MONITORING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

PREPARED BY:
CONESTOGA-ROVERS & ASSOCIATES

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1.0 INTRODUCTION

The following document details an assessment and validation of analytical data reported for groundwater samples collected from Zeneca, Inc. (Site) located in Dighton, Massachusetts. The samples were collected from June to August 2009 in support of the Supplemental Resource Conservation and Recovery Act (RCRA) Facilities Investigation.

A sampling and analysis summary is presented in Table 1. The samples were submitted to Test America, Inc. (Test America) in Pittsburgh, Pennsylvania, and Burlington, Vermont. A summary of the methods is presented in Table 2.

A summary of the analytical data is presented in Table 3. These data were validated in accordance with the analytical methods and the documents entitled:

i) "USEPA Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses; Part II. Volatile/Semi-Volatile Data Validation Functional Guidelines (1996)"

ii) "USEPA Region I Laboratory Data Validation Functional Guidelines for Inorganic Analyses (1989)"

iii) "Quality Assurance Project Plan Addendum, Supplemental RCRA Facilities Investigation, Dighton, Massachusetts, July 2003"

Full raw data deliverables were provided by the laboratories. A Tier II validation was performed on the data, and the validation findings are presented in the following subsections.

2.0 SAMPLE HOLDING TIMES

Sample holding time and preservation requirements are summarized in the analytical methods. All sample extractions and/or analyses were performed within the specified holding times.

All samples were properly preserved and cooled to 4°C (±2°C) after collection.

3.0 INSTRUMENT CALIBRATION

3.1 GAS CHROMATOGRAPH/MASS SPECTROMETER (GC/MS) CALIBRATION - VOLATILE ORGANIC COMPOUNDS (VOCs) AND SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)

3.1.1 TUNING AND MASS CALIBRATION

Prior to analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the VOC and SVOC methods require the analysis of the specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Instrument tuning data were reviewed. Tuning compounds were analyzed at the required frequency throughout the VOC and SVOC analysis periods. All tuning criteria were met for the analyses, indicating proper optimization of the instrumentation.

3.1.2 INITIAL CALIBRATION

To quantify compounds of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.05

ii) For average response factors are employed, percent relative standard deviation (%RSD) values must not exceed 30 percent

The initial calibration data for VOCs and SVOCs were reviewed and met the above criteria for linearity and sensitivity.

3.1.3 CONTINUING CALIBRATION

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.05

ii) Percent difference (%D) values must not exceed 25 percent

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity of response with the exception of %D values for some VOCs and SVOCs, which exceeded the 25-percent criterion throughout the analysis period. All associated sample results were qualified as estimated to reflect variability in instrument response (see Table 4).

3.2 GC CALIBRATION - POLYCHLORINATED BIPHENYLS (PCBs) AND CARBON DIOXIDE

3.2.1 INITIAL CALIBRATION

To quantify compounds of interest, calibration of the GC over a specific concentration range must be performed. Initially, five-point calibration curves are analyzed for all the compounds of interest with the exception of some PCBs. For the PCB analysis, Aroclors 1016 and 1260 are analyzed using a five-point curve and one-point calibration standards are analyzed for the remaining Aroclors.

Linearity of the calibration curves are acceptable if %RSD values are less than or equal to 20 percent or if the correlation coefficient is greater than 0.995. Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

Initial calibration standards were analyzed at the required frequencies. All retention time and linearity criteria were satisfied.

3.2.2 CONTINUING CALIBRATION

To ensure that the calibration of the instrument is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound in all continuing standards and assessed against an acceptance criterion of 15 percent.

To ensure that compound retention times do not vary over the analysis period, all retention times must fall within the established retention time windows.

Continuing calibration standards were analyzed at the required frequency and all method criteria were met for analyte linearity.

3.3 INSTRUMENTAL CALIBRATION - METALS AND GENERAL CHEMISTRY

3.3.1 INITIAL CALIBRATION

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For trace inductively coupled plasma (ICP) analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury analyses, a calibration blank and a minimum of four standards must be analyzed to establish the analytical curve. For general chemistry, calibration is performed based on the analysis of at least three standards and a blank. Resulting correlation coefficients for curves must be at least 0.995.

After calibration, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Instrument	*Inorganic Species*	*Control Limits (Percent)*
ICP	Metals	90 - 110
Cold Vapor Atomic Absorption (AA)	Mercury	80 - 120
Ion Chromatography	Nitrate/Nitrite/Chloride/Sulfate	85 - 115
Potentiometric/Spectrophotometric	Ammonia/Dissolved Organic Carbon	85 - 115

Upon review of the data, it was determined that all inorganic calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that instrumentation used for these analyses were properly calibrated prior to sample analyses.

3.3.2 CONTINUING CALIBRATION

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

3.3.3 CONTRACT REQUIRED DETECTION LIMIT (CRDL) STANDARD ANALYSES

To verify the linearity of the ICP calibration near the detection limit, a standard is analyzed which contains the ICP analytes at specified concentrations. This standard must be analyzed at the beginning and end of each sample analysis run or a minimum of twice per 8-hour working shift.

Control limits of 80-120 percent were used to evaluate the data. The CRDL recoveries were acceptable with a few exceptions. All associated results were qualified as estimated (see Table 5).

4.0 SURROGATE SPIKE RECOVERIES - ORGANICS

In accordance with the methods employed, all samples, blanks, and standards analyzed for VOCs, SVOCs, and PCBs are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against method control limits. For the SVOC method, it is acceptable for one surrogate recovery per

fraction (base neutral or acid phenolic) to fall outside of these limits, provided it is greater than 10 percent.

All surrogate recoveries were within the laboratory control limits with the following exceptions:

i) High PCB recoveries were observed. Associated positive sample results were qualified as estimated.

ii) Low SVOC recoveries were observed. Sample results were qualified as estimated to reflect the low bias.

iii) Extremely low SVOC recoveries were observed. All associated results were non-detect and were rejected due to poor analytical efficiency.

A summary of qualified sample results is found in Table 6.

5.0 INTERNAL STANDARD (IS) RECOVERIES - VOCs AND SVOCs

To correct for changes in GC/MS response and sensitivity, IS compounds are added to investigative samples and quality control samples prior to VOC and SVOC analyses. All results are calculated as a ratio of the IS response. The criteria by which the IS results are assessed are as follows:

i) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

ii) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard

All sample IS results met the above criteria and were used to calculate all positive sample results.

6.0 METHOD BLANK ANALYSES

Method blanks are prepared from deionized water and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures. Additionally, continuing calibration blanks (CCBs) are routinely analyzed after each CCV for the inorganic parameters.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch and CCBs were analyzed for inorganic parameters after each CCV. The data were non-detect with the exception of low concentrations of various VOCs, SVOCs, and metals observed in the method blanks and/or CCBs. All associated sample results within five times the blank concentration (ten times for common laboratory contaminants) were qualified as non-detect (see Table 7).

7.0 LABORATORY CONTROL SAMPLE (LCS) ANALYSES

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch. Some LCSs were prepared in duplicate to assess analytical precision.

LCSs were prepared and analyzed for all parameters and all recoveries were within the acceptable limits.

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

MS/MSD samples are prepared using a representative subset of analytes for each parameter and analyzed with each sample batch for all parameters. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

All MS/MSD results were within the acceptable limits presented in the Quality Assurance Project Plan (QAPP) with the following exceptions:

i) High VOC recoveries were observed. The positive sample result was qualified as estimated to reflect the implied high bias.

ii) Low SVOC and chloride recoveries were observed. The associated sample results were qualified as estimated to reflect the implied low bias.

iii) Extremely low SVOC recoveries were observed. The associated non-detect sample result was rejected due to poor analytical efficiency.

A summary of qualified sample results can be found in Table 8.

9.0 ICP SERIAL DILUTION

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of one per twenty investigative samples is analyzed at a five-fold dilution. For samples with sufficient analyte concentrations, the serial dilution results must agree within 20 percent of the original results.

Serial dilutions were performed and the results were acceptable with the exception of high percent differences in some total and dissolved metals results. The associated sample results were qualified as estimated (see Table 9).

10.0 ICP INTERFERENCE CHECK SAMPLE (ICS) ANALYSIS

To verify that proper inter-element and background correction factors have been established by the laboratory, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period.

ICS analysis results were evaluated for all samples. All ICS recoveries were within the established control limits of 80 to 120 percent.

11.0 FIELD QUALITY CONTROL (QC)

Trip Blanks

Trip blanks are transported, stored, and analyzed with the investigative samples to identify potential cross-contamination of VOCs.

A trip blank was collected and submitted with the investigative VOC sample, and all results were non-detect for the analytes of interest with the exception of a low concentration of methylene chloride in one trip blank. Associated sample results with concentrations similar to that found in the blank were qualified as non-detect (see Table 10). Sample results that were either non-detect or significantly greater than the concentration found in the blank would not have been impacted.

Field Duplicate Analyses

Six field duplicate pairs were collected and submitted "blind" to the laboratory for analysis as noted in Table 1. Variability was observed between the original and duplicate results for various parameters. Qualified sample results are summarized in Table 11.

Field Blanks

Field blanks were collected and analyzed with the samples for all parameters. Field blank results were non-detect with the exception of low levels of iron, zinc, ammonia, dissolved organic carbon, and caprolactam. All sample results with similar concentrations have been qualified as non-detect (see Table 12). Sample results that were either non-detect or significantly greater than the concentration found in the blank would not have been impacted.

12.0 ANALYTE REPORTING

Non-detect data were reported down to the laboratory's method detection limits (MDLs) for each analyte. Positive analyte detections less than the practical quantitation limit (PQL) but greater than the MDL were qualified as estimated (J).

13.0 TOTAL VERSUS DISSOLVED METALS

Most dissolved metals results were less than the total results or had variability with the acceptance criterion of 20 percent difference with some exceptions. The associated total and dissolved results were qualified as estimated (see Table 13).

14.0 CONCLUSION

Based on the assessment detailed in the foregoing, the data summarized in Table 3 are acceptable with the specific qualifications and exceptions noted herein.

TABLES

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

			Analysis/Parameters						
Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*VOCs*	*SVOCs*	*PCBs*	*Carbon Dioxide*	*TAL Metals (total and dissolved)*	*Nitrite, Nitrate, Sulfate, Ammonia, Alkalinity*	*Comments*
GW-15620-060909-RR-001	MW-1-13	06/09/09	X	X	X	X	X	X	
GW-15620-061809-MM-014	MW-2-10	06/18/09	X	X	X	X	X	X	
GW-15620-072109-RW-054	MW-3	07/21/09	X	X	X	X	X	X	
GW-15620-061509-RR-017	MW-3-14	06/15/09	X	X	X	X	X	X	
GW-15620-072109-RW-052	MW-4	07/21/09	X	X	X	X	X	X	
GW-15620-061009-RR-005	MW-4-18	06/10/09	X	X	X	X	X	X	
GW-15620-072209-RR-079	MW-5	07/22/09	X	X	X	X	X	X	
GW-15620-063009-RR-031	MW-5-16	06/30/09	X	X	X	X	X	X	
GW-15620-072209-RW-074	MW-6	07/22/09	X	X	X	X	X	X	
GW-15620-061709-MM-010	MW-6-17	06/17/09	X	X	X	X	X	X	
GW-15620-072309-RW-083	MW-7	07/23/09	X	X	X	X	X	X	
GW-15620-072309-RW-085	MW-7	07/23/09	X	X	X	X	X	X	Field duplicate of sample GW-15620-072309-RW-083
GW-15620-061009-RR-009	MW-7-20	06/10/09	X	X	X	X	X	X	
GW-15620-071009-DS-038	MW-8	07/10/09	X	X	X	X	X	X	
GW-15620-072309-RR-081	MW-9	07/23/09	X	X	X	X	X	X	
GW-15620-070609-DS-018	MW-9-15	07/06/09	X	X	X	X	X	X	
GW-15620-070609-DS-020	MW-9-15	07/06/09	X	X	X	X	X	X	Field duplicate of sample GW-15620-070609-DS-020
GW-15620-070609-RR-037	MW-10-14	07/06/09	X	X	X	X	X	X	
GW-15620-072309-RR-087	MW-11R-14	07/23/09	X	X	X	X	X	X	
GW-15620-072209-RR-075	MW-12-19	07/22/09	X	X	X	X	X	X	
GW-15620-062509-RR-029	MW-14-13	06/25/09	X	X	X	X	X	X	
GW-15620-061109-RR-013	MW-15R-S	06/11/09	X	X	X	X	X	X	
GW-15620-072109-RW-044	MW-16-14	07/21/09	X	X	X	X	X	X	
GW-15620-070809-DS-030	MW-18-15	07/08/09	X	X	X	X	X	X	
GW-15620-070809-RR-051	MW-20-15	07/08/09	X	X	X	X	X	X	
GW-15620-070909-DS-034	MW-22-S	07/09/09	X	X	X	X	X	X	
GW-15620-061809-MM-012	MW-2-34	06/18/09	X	X	X	X	X	X	
GW-15620-062409-RR-025	MW-3-I	06/24/09	X	X	X	X	X	X	
GW-15620-062309-RR-021	MW-3-42	06/23/09	X	X	X	X	X	X	
GW-15620-072209-RR-073	MW-12-I	07/22/09	X	X	X	X	X	X	

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GROUNDWATER INVESTIGATION
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DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

			Analysis/Parameters						
Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*VOCs*	*SVOCs*	*PCBs*	*Carbon Dioxide*	*TAL Metals (total and dissolved)*	*Nitrite, Nitrate, Sulfate, Ammonia, Alkalinity*	*Comments*
GW-15620-061109-RR-015	MW-15R-I	06/11/09	X	X	X	X	X	X	
GW-15620-060609-MM-004	MW-24-I	06/06/09	X	X	X	X	X	X	
GW-15620-070709-RR-047	MW-28-I	07/07/09	X	X	X	X	X	X	
GW-15620-072109-RR-067	MW-29-I	07/21/09	X	X	X	X	X	X	MS/MSD
GW-15620-060909-RR-003	MW-1-102	06/09/09	X	X	X	X	X	X	
GW-15620-062309-RR-023	MW-3-D	06/23/09	X	X	X	X	X	X	
GW-15620-070609-RR-033	MW-5-58	07/06/09	X	X	X	X	X	X	
GW-15620-061709-MM008	MW-6-75	06/17/09	X	X	X	X	X	X	
GW-15620-061009-RR-007	MW-7-80	06/10/09	X	X	X	X	X	X	
GW-15620-061009-RR-011	MW-7-80	06/10/09	X	X	X	X	X	X	Field duplicate of sample GW-15620-061009-RR-007
GW-15620-070109-MM-016	MW-8-83	07/01/09	X	X	X	X	X	X	MS/MSD
GW-15620-070609-DS-022	MW-9-70	07/06/09	X	X	X	X	X	X	
GW-15620-070609-RR-039	MW-10-40	07/06/09	X	X	X	X	X	X	
GW-15620-072209-RR-071	MW-12-D	07/22/09	X	X	X	X	X	X	
GW-15620-072209-RW-076	MW-13-68	07/22/09	X	X	X	X	X	X	
GW-15620-061509-RR-019	MW-15R-D	06/15/09	X	X	X	X	X	X	
GW-15620-072109-RW-042	MW-16-53	07/21/09	X	X	X	X	X	X	
GW-15620-070909-RR-053	MW-23-S	07/09/09	X	X	X	X	X	X	
GW-15620-060909-MM-002	MW-24-S	06/06/09	X	X	X	X	X	X	
GW-15620-072209-RW-068	MW-25-S	07/22/09	X	X	X	X	X	X	
GW-15620-071009-RR-061	MW-26-S	07/10/09	X	X	X	X	X	X	
GW-15620-072109-RW-048	MW-27-S	07/21/09	X	X	X	X	X	X	
GW-15620-072109-RW-050	MW-27-S	07/21/09	X	X	X	X	X	X	Field duplicate of sample GW-15620-072109-RW-048
GW-15620-070709-RR-045	MW-28-S	07/07/09	X	X	X	X	X	X	
GW-15620-071009-RR-065	MW-29-S	07/10/09	X	X	X	X	X	X	
GW-15620-072209-RW-072	MW-30-S	07/22/09	X	X	X	X	X	X	
GW-15620-072009-RW-062	MW-31R-S	07/20/09	X	X	X	X	X	X	
GW-15620-072009-RR-091	MW-33-S	07/20/09	X	X	X	X	X	X	
GW-15620-071009-RR-059	MW-35-S	07/10/09	X	X	X	X	X	X	
GW-15620-072309-RW-082	MW-36-S	07/23/09	X	X	X	X	X	X	

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			Analysis/Parameters						
Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*VOCs*	*SVOCs*	*PCBs*	*Carbon Dioxide*	*TAL Metals (total and dissolved)*	*Nitrite, Nitrate, Sulfate, Ammonia, Alkalinity*	*Comments*
GW-15620-072309-RW-086	MW-37-S	07/23/09	X	X	X	X	X	X	
GW-15620-070709-DS-028	MW-38-S	07/07/09	X	X	X	X	X	X	
GW-15620-070709-RR-043	MW-39-S	07/07/09	X	X	X	X	X	X	MS/MSD
GW-15620-080409-RR-095	TW-3	08/04/09	X	X	X	X	X	X	
GW-15620-072309-RR-089	GP-412	07/23/09	X	X	X	X	X	X	
GW-15620-072209-RW-064	ERC-1	07/22/09	X	X	X	X	X	X	
GW-15620-072209-RW-060	ERC-2	07/22/09	X	X	X	X	X	X	
GW-15620-072209-RW-058	ERC-3	07/22/09	X	X	X	X	X	X	
GW-15620-072309-RW-084	MW-32-I	07/23/09	X	X	X	X	X	X	
GW-15620-072309-RW-078	MW-34-I	07/23/09	X	X	X	X	X	X	MS/MSD
GW-15620-062409-RR-027	MW-37-I	06/24/09	X	X	X	X	X	X	MS/MSD
GW-15620-070709-DS-024	MW-38-I	07/07/07	X	X	X	X	X	X	
GW-15620-070709-DS-026	MW-38-I	07/07/07	X	X	X	X	X	X	Field duplicate of sample GW-15620-070709-DS-024
GW-15620-070709-RR-041	MW-39-I	07/07/09	X	X	X	X	X	X	
GW-15620-071009-DS-040	MW-40-I	07/10/09	X	X	X	X	X	X	
GW-15620-072009-RR-063	MW-41-I	07/20/09	X	X	X	X	X	X	
GW-15620-072309-RW-080	MW-17-66	07/23/09	X	X	X	X	X	X	
GW-15620-070809-DS-032	MW-18-39	07/08/09	X	X	X	X	X	X	
GW-15620-070909-RR-057	MW-20-40	0709/09	X	X	X	X	X	X	
GW-15620-071009-DS-036	MW-22-D	07/10/09	X	X	X	X	X	X	
GW-15620-070909-RR-055	MW-23-D	07/09/09	X	X	X	X	X	X	
GW-15620-061109-MM-006	MW-24-D	06/11/09	X	X	X	X	X	X	
GW-15620-072209-RW-056	MW-25-D	07/22/09	X	X	X	X	X	X	
GW-15620-072209-RW-066	MW-25-D	07/22/09	X	X	X	X	X	X	Field duplicate of sample GW-15620-072209-RW-056
GW-15620-072109-RW-046	MW-27-D	07/21/09	X	X	X	X	X	X	
GW-15620-070809-RR-049	MW-28-D	07/08/09	X	X	X	X	X	X	
GW-15620-072109-RR-069	MW-29-D	07/21/09	X	X	X	X	X	X	
GW-15620-072209-RW-070	MW-30-D	07/22/09	X	X	X	X	X	X	
GW-15620-070109-RR-035	MW-31-D	07/01/09	X	X	X	X	X	X	
GW-15620-072209-RR-077	Rinse Blank	07/22/09	X	X	X	X	X	X	Rinse Blank

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

			Analysis/Parameters						
Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*VOCs*	*SVOCs*	*PCBs*	*Carbon Dioxide*	*TAL Metals (total and dissolved)*	*Nitrite, Nitrate, Sulfate, Ammonia, Alkalinity*	*Comments*
GW-15620-072709-RR-093	Rinse Blank	07/27/09	X	X	X	X	X	X	Rinse Blank
Trip Blank	-	06/09/09	X						
Trip Blank	-	06/10/09	X						
Trip Blank	-	06/11/09	X						
Trip Blank	-	06/15/09	X						
Trip Blank	-	06/18/09	X						
Trip Blank	-	06/24/09	X						
Trip Blank	-	06/25/09	X						
Trip Blank	-	06/30/09	X						
Trip Blank	-	07/01/09	X						
Trip Blank	-	07/06/09	X						
Trip Blank	-	07/07/09	X						
Trip Blank	-	07/08/09	X						
Trip Blank	-	07/10/09	X						
Trip Blank	-	07/20/09	X						
Trip Blank	-	07/21/09	X						
Trip Blank	-	07/22/09	X						
Trip Blank	-	07/23/09	X						

Notes:

- Not Applicable.
MS Matrix Spike.
MSD Matrix Spike Duplicate.
PCBs Polychlorinated Biphenyls.
SVOCs Semi-Volatile Organic Compounds.
TAL Target Analyte List.
VOCs Volatile Organic Compounds.

TABLE 2

METHODS SUMMARY
GROUNDWATER MONITORING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Methodology*
TCL VOCs	SW-846 8260[1]
TCL SVOCs	SW-846 8270[1]
TCL PCBs	SW-846 8082[1]
TAL Metals	SW-846 6010/7000[1]
Chloride	EPA 300[2]
Total Dissolved Solids (TDS)	EPA 160.1[2]
Total Suspended Solids (TSS)	EPA 160.2[2]
Lead and Arsenic (dissolved)	SW-846 6010[1]
Ammonia, as nitrogen	EPA 350[2]
Nitrate/Nitrite	EPA 300[2]
Total Recoverable Phenols	EPA 420.1[2]
Phosphorous (total)	EPA 365[2]
Sulfate	EPA 300[2]
Carbon Dioxide	RSK175

Notes:

1 "Test Methods for Solid Waste Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 (with all subsequent revisions).

2 "Methods for Chemical Analysis of Water and Wastes," EPA 600/4-79-220, March 1983.

3 Massachusetts Department of Environmental Protection, Division of Environmental Analysis, January 1998.

MTBE Methyl tertiary butyl ether.

PCBs Polychlorinated Biphenyls.

SVOCs Semi-Volatile Organic Compounds.

TCL Target Compound List.

VOCs Volatile Organic Compounds.

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*ERC-1*	*ERC-2*	*ERC-3*	*GP-412*	*MW-1-13*
	Sample ID:	*GW-15620-072209-RW-064*	*GW-15620-072209-RW-060*	*GW-15620-072209-RW-058*	*GW-15620-072309-RR-089*	*GW-15620-060909-RR-001*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/23/2009*	*6/9/2009*
Parameter	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	ND (0.29)	ND (0.29)	ND (0.29)	ND (86)	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (60)	ND (0.20)
1,1,2-Trichloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (60)	ND (0.20)
1,1-Dichloroethane	µg/L	ND (0.12)	ND (0.12)	ND (0.12)	ND (35)	ND (0.12)
1,1-Dichloroethene	µg/L	ND (0.30)	ND (0.30)	ND (0.30)	ND (89)	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	ND (0.15) J	ND (0.15)	ND (0.15)	1300	ND (0.15)
1,2,4-Trichlorobenzene	µg/L	ND (0.27)	ND (0.27)	ND (0.27)	5300	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (0.14) J	ND (0.14)	ND (0.14)	ND (42)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	ND (54)	ND (0.18)
1,2-Dichlorobenzene	µg/L	ND (0.15)	0.32 J	1.2	350	ND (0.15)
1,2-Dichloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (64)	ND (0.21)
1,2-Dichloropropane	µg/L	ND (0.095)	ND (0.095)	ND (0.095)	ND (28)	ND (0.095)
1,3-Dichlorobenzene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	1900	ND (0.11)
1,4-Dichlorobenzene	µg/L	ND (0.21)	ND (0.21)	0.41 J	3100	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (0.55)	ND (0.55)	0.62 J	ND (160)	ND (0.55)
2-Hexanone	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (48)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (0.53)	ND (0.53)	ND (0.53)	ND (160)	ND (0.53)
Acetone	µg/L	5.1	ND (2.5)	ND (2.5)	ND (750)	ND (2.5)
Benzene	µg/L	0.14 J	ND (0.11)	0.13 J	35 J	ND (0.11)
Bromodichloromethane	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (39)	ND (0.13)
Bromoform	µg/L	ND (0.19) J	ND (0.19)	ND (0.19)	ND (57)	ND (0.19)
Bromomethane (Methyl Bromide)	µg/L	ND (0.31) J	ND (0.31) J	ND (0.31) J	ND (94)	ND (0.31)
Carbon disulfide	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (64)	ND (0.21)
Carbon tetrachloride	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (41)	ND (0.14)
Chlorobenzene	µg/L	1.5	0.53 J	2.5	6700	ND (0.14)
Chloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (64)	ND (0.21)
Chloroform (Trichloromethane)	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (51)	ND (0.17)
Chloromethane (Methyl Chloride)	µg/L	ND (0.28)	ND (0.28)	ND (0.28)	ND (85)	ND (0.28) J
cis-1,2-Dichloroethene	µg/L	ND (0.24)	ND (0.24)	ND (0.24)	ND (71)	ND (0.24)
cis-1,3-Dichloropropene	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	ND (56)	ND (0.19)
Cyclohexane	µg/L	ND (0.25)	ND (0.25)	ND (0.25)	ND (76)	ND (0.25)
Dibromochloromethane	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (41)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (0.19)	ND (0.19) J	ND (0.19) J	ND (58)	ND (0.19) J
Ethylbenzene	µg/L	ND (0.23)	ND (0.23)	0.24 J	ND (68)	ND (0.23)
Isopropylbenzene	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (49)	ND (0.16)
Methyl acetate	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (41)	ND (0.14)
Methyl cyclohexane	µg/L	ND (0.26)	ND (0.26)	ND (0.26)	ND (78)	ND (0.26)
Methyl Tert Butyl Ether	µg/L	0.61 J	ND (0.18)	ND (0.18)	ND (55)	ND (0.18)
Methylene chloride	µg/L	0.25 J	ND (0.15)	ND (0.15)	130 J	ND (0.15)
Volatile Organic Compounds (Cont'd.)						
Styrene	µg/L	ND (0.097)	ND (0.097)	ND (0.097)	ND (29)	ND (0.097)
Tetrachloroethene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (45)	ND (0.15)
Toluene	µg/L	0.22 J	0.77 J	7.1	ND (45)	ND (0.15)
trans-1,2-Dichloroethene	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (51)	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*ERC-1*	*ERC-2*	*ERC-3*	*GP-412*	*MW-1-13*
	Sample ID:	*GW-15620-072209-RW-064*	*GW-15620-072209-RW-060*	*GW-15620-072209-RW-058*	*GW-15620-072309-RR-089*	*GW-15620-060909-RR-001*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/23/2009*	*6/9/2009*
Parameter	*Units*					
trans-1,3-Dichloropropene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (44)	ND (0.15)
Trichloroethene	µg/L	ND (0.25)	0.34 J	ND (0.14)	ND (43)	ND (0.14)
Trichlorofluoromethane (CFC-11)	µg/L	ND (0.20)	ND (0.20) J	ND (0.20) J	ND (60)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (0.32)	ND (0.32)	ND (0.32)	ND (96)	ND (0.32)
Vinyl chloride	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (68)	ND (0.23)
Xylene (total)	µg/L	ND (0.49)	ND (0.49)	0.96 J	ND (150)	ND (0.49)
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.35)	ND (0.34)
2,4,5-Trichlorophenol	µg/L	ND (0.14)	ND (0.15)	ND (0.15)	4.6 J	ND (0.15)
2,4,6-Trichlorophenol	µg/L	ND (0.085)	ND (0.087)	ND (0.089)	ND (0.091)	ND (0.090)
2,4-Dichlorophenol	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	7.7	ND (0.13)
2,4-Dimethylphenol	µg/L	ND (0.076)	ND (0.077)	ND (0.079)	ND (0.080)	ND (0.080)
2,4-Dinitrophenol	µg/L	ND (5.8)	ND (5.9)	ND (6.0)	ND (6.1)	ND (6.1)
2,4-Dinitrotoluene	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	µg/L	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.19)
2-Chloronaphthalene	µg/L	ND (0.14)	ND (0.15)	ND (0.15)	20	ND (0.15)
2-Chlorophenol	µg/L	ND (0.20)	ND (0.20)	ND (0.21)	8.8 J	ND (0.21)
2-Methylnaphthalene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.16)
2-Methylphenol	µg/L	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.14)
2-Nitroaniline	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)
2-Nitrophenol	µg/L	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.14)
3,3'-Dichlorobenzidine	µg/L	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.36)	ND (0.36)
3-Nitroaniline	µg/L	ND (0.24)	ND (0.25)	ND (0.25)	ND (0.26)	ND (0.26)
4,6-Dinitro-2-methylphenol	µg/L	ND (7.3)	ND (7.5)	ND (7.6)	ND (7.8)	ND (7.7)
4-Bromophenyl phenyl ether	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.19)
4-Chloro-3-methylphenol	µg/L	ND (0.24)	ND (0.24)	ND (0.25)	ND (0.25)	ND (0.25)
4-Chloroaniline	µg/L	ND (1.0)	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.1)
4-Chlorophenyl phenyl ether	µg/L	ND (0.098)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
4-Methylphenol	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.18)
4-Nitroaniline	µg/L	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.23)
4-Nitrophenol	µg/L	ND (6.6)	ND (6.8)	ND (6.9)	ND (7.0)	ND (7.0)
Acenaphthene	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Acenaphthylene	µg/L	ND (0.080)	ND (0.081)	ND (0.083)	ND (0.085)	ND (0.084)
Acetophenone	µg/L	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.22)
Semi-Volatile Organic Compounds (Cont'd.)						
Aniline	µg/L	ND (0.38)	ND (0.39)	ND (0.40)	230	ND (0.40)
Anthracene	µg/L	ND (0.98)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Atrazine	µg/L	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.20)	ND (0.20)
Benzaldehyde	µg/L	ND (0.47)	ND (0.48)	ND (0.49)	ND (0.50)	ND (0.50)
Benzo(a)anthracene	µg/L	ND (0.17)	3.3	ND (0.17)	1.2 J	ND (0.17)
Benzo(a)pyrene	µg/L	ND (0.11)	2.6	ND (0.11)	1.0 J	ND (0.12)
Benzo(b)fluoranthene	µg/L	ND (0.15)	3.1	ND (0.16)	1.1 J	ND (0.16)
Benzo(g,h,i)perylene	µg/L	ND (0.081)	4.0	ND (0.085)	1.5 J	ND (0.086)
Benzo(k)fluoranthene	µg/L	ND (0.15)	3.8	ND (0.16)	1.1 J	ND (0.16)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*ERC-1*	*ERC-2*	*ERC-3*	*GP-412*	*MW-1-13*
	Sample ID:	*GW-15620-072209-RW-064*	*GW-15620-072209-RW-060*	*GW-15620-072209-RW-058*	*GW-15620-072309-RR-089*	*GW-15620-060909-RR-001*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/23/2009*	*6/9/2009*
Parameter	***Units***					
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
bis(2-Chloroethoxy)methane	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.14)
bis(2-Chloroethyl)ether	µg/L	ND (0.25)	ND (0.25)	ND (0.26)	ND (0.26)	ND (0.26)
bis(2-Ethylhexyl)phthalate	µg/L	3.3 J	5.6 J	ND (0.45)	4.2 J	ND (0.46)
Butyl benzylphthalate	µg/L	ND (2.9)	ND (2.9)	ND (3.0)	ND (3.1)	ND (3.0)
Caprolactam	µg/L	ND (6.8)	ND (6.9)	ND (7.1)	ND (7.2)	ND (7.2)
Carbazole	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.14)
Chrysene	µg/L	ND (0.10)	4.3	ND (0.11)	1.4 J	ND (0.11)
Dibenz(a,h)anthracene	µg/L	ND (0.12)	5.0	ND (0.12)	3.1	ND (0.13)
Dibenzofuran	µg/L	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
Diethyl phthalate	µg/L	6.0 J	5.2 J	2.7 J	5.2 J	ND (0.44)
Dimethyl phthalate	µg/L	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.14)
Di-n-butylphthalate	µg/L	ND (0.28)	0.89 J	ND (0.29)	ND (0.30)	ND (0.30)
Di-n-octyl phthalate	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)
Fluoranthene	µg/L	ND (0.094)	0.71 J	ND (0.098)	0.44 J	ND (0.099)
Fluorene	µg/L	ND (0.093)	ND (0.095)	ND (0.097)	0.22 J	ND (0.098)
Hexachlorobenzene	µg/L	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.18)
Hexachlorobutadiene	µg/L	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Hexachlorocyclopentadiene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Hexachloroethane	µg/L	ND (0.072)	ND (0.074)	ND (0.075)	ND (0.077)	ND (0.076)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.15)	5.6	ND (0.16)	3.7	ND (0.16)
Isophorone	µg/L	ND (0.27)	ND (0.28)	ND (0.28)	ND (0.29)	ND (0.29)
Naphthalene	µg/L	ND (0.26)	ND (0.27)	ND (0.27)	260	ND (0.28)
Nitrobenzene	µg/L	ND (0.17)	ND (0.17)	ND (0.18)	7.1	ND (0.18)
N-Nitrosodi-n-propylamine	µg/L	ND (0.36)	ND (0.37)	ND (0.38)	ND (0.39)	ND (0.38)
N-Nitrosodiphenylamine	µg/L	ND (0.46)	ND (0.47)	ND (0.48)	ND (0.49)	ND (0.48)
Pentachlorophenol	µg/L	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.9)	ND (1.9)
Phenanthrene	µg/L	ND (0.27)	ND (0.27)	ND (0.28)	ND (0.28)	ND (0.28)
Phenol	µg/L	ND (0.22)	ND (0.23)	ND (0.23)	ND (0.24)	ND (0.23)
Pyrene	µg/L	ND (0.10)	0.65 J	ND (0.11)	0.41 J	ND (0.11)
Metals						
Aluminum	µg/L	809	ND (37.8)	2280	ND (9.7)	ND (88.1)
Aluminum (Dissolved)	µg/L	ND (37.0)	ND (37.2)	ND (50.0)	ND (9.7)	ND (66.5)
Antimony	µg/L	ND (1.3)	1.5 J	2.1 J	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	µg/L	13.1	ND (2.7)	4.3 J	180	ND (2.7)
Arsenic (Dissolved)	µg/L	13.8	3.4 J	4.0 J	191	ND (2.7)
Barium	µg/L	57.1 J	42.5 J	23.7 J	136 J	5.3 J
Barium (Dissolved)	µg/L	50.0 J	45.0 J	25.0 J	143 J	5.4 J
Beryllium	µg/L	ND (0.25)	ND (0.30)	ND (0.42)	ND (0.23)	ND (0.47)
Beryllium (Dissolved)	µg/L	ND (0.31)	ND (0.32)	ND (0.35)	ND (0.23)	ND (0.50)
Cadmium	µg/L	ND (0.13)	0.18 J	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	µg/L	79500	69400	37600 J	24000	11500
Calcium (Dissolved)	µg/L	76700	71500	86500 J	25400	11100

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*ERC-1*	*ERC-2*	*ERC-3*	*GP-412*	*MW-1-13*
	Sample ID:	*GW-15620-072209-RW-064*	*GW-15620-072209-RW-060*	*GW-15620-072209-RW-058*	*GW-15620-072309-RR-089*	*GW-15620-060909-RR-001*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/23/2009*	*6/9/2009*
Parameter	*Units*					
Chromium	µg/L	ND (2.2)	ND (0.57)	ND (2.6)	ND (0.57)	ND (0.57)
Chromium Total (Dissolved)	µg/L	ND (1.1)	ND (0.57)	ND (0.61)	ND (0.57)	ND (0.57)
Cobalt	µg/L	8.5 J	ND (0.40)	1.1 J	ND (0.40)	ND (0.40)
Cobalt (Dissolved)	µg/L	6.7 J	ND (0.40)	1.2 J	ND (0.40)	ND (0.40)
Copper	µg/L	ND (2.7)	4.0 J	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Iron	µg/L	6980	45.5 J	2740	7750	20.4 J
Iron (Dissolved)	µg/L	7370	307 J	2460	7870	ND (11.9)
Lead	µg/L	2.7 J	2.9 J	9.1	2.2 J	ND (1.3)
Lead (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	1.6 J	ND (1.3)
Magnesium	µg/L	5930	3040 J	3380 J	3910 J	1170 J
Magnesium (Dissolved)	µg/L	5420	3260 J	6230 J	4130 J	1150 J
Manganese	µg/L	4630	48.8 J	484 J	3070	2.4 J
Manganese (Dissolved)	µg/L	3850	170 J	1200 J	3150	1.4 J
Mercury	µg/L	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.056)
Mercury (Dissolved)	µg/L	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.049)
Nickel	µg/L	8.0 J	5.6 J	2.5 J	ND (1.6)	ND (1.6)
Nickel (Dissolved)	µg/L	4.3 J	5.4 J	2.1 J	ND (1.6)	ND (1.6)
Potassium	µg/L	7200	2190 J	8090 J	3580 J	1050 J
Potassium (Dissolved)	µg/L	7100	2420 J	12800 J	3830 J	ND (1060)
Selenium	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	3.4 J	ND (3.0)
Silver	µg/L	0.74 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Silver (Dissolved)	µg/L	1.0 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Metals (Cont'd.)						
Sodium	µg/L	38900	27700	15300 J	14800	3680 J
Sodium (Dissolved)	µg/L	40100	28600	29300 J	15700	3630 J
Thallium	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	3.2 J	ND (2.4)
Thallium (Dissolved)	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	6.1 J	ND (2.6)
Vanadium	µg/L	2.3 J	ND (1.9)	5.5 J	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	µg/L	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	µg/L	ND (23.0)	ND (20.9)	ND (19.9)	ND (2.5)	ND (5.4)
Zinc (Dissolved)	µg/L	ND (5.4)	ND (14.2)	ND (4.3)	ND (2.5)	ND (4.6)
Polychlorinated Biphenyls						
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0024)	ND (0.0024)	ND (0.0025)	ND (0.0024)	ND (0.0025)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0025)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0028)	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0018)	0.033	ND (0.0018)	ND (0.0018)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0023)
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0023)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
Gases						
Carbon dioxide	µg/L	26000	16000	20000	14000	9600

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*ERC-1*	*ERC-2*	*ERC-3*	*GP-412*	*MW-1-13*
	Sample ID:	*GW-15620-072209-RW-064*	*GW-15620-072209-RW-060*	*GW-15620-072209-RW-058*	*GW-15620-072309-RR-089*	*GW-15620-060909-RR-001*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/23/2009*	*6/9/2009*
Parameter	***Units***					
General Chemistry						
Alkalinity, Total (as CaCO3)	mg/L	237	203	124	105	ND (0.41)
Ammonia	mg/L	5.5	ND (0.48)	0.79	4.1	0.23
Chloride	mg/L	79.4	33.1	14.7	17.3 J	3.7
Dissolved Organic Carbon (DOC), Dissolved	mg/L	7.0	7.9	8.7	4.3	1.6
Nitrate (as N)	mg/L	ND (0.0077)	ND (0.0077)	0.68	ND (0.0077)	1.3
Nitrite (as N)	mg/L	0.085	0.050	ND (0.0032)	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	ND (0.44)	6.9	3.7	5.8	64.2

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-1-102*	*MW-2-10*	*MW-3*	*MW-3*	*MW-3-14*
	Sample ID:	*GW-15620-060909-RR-003*	*GW-15620-061809-MM-014*	*GW-15620-072109-RW-54*	*GW-15620-072209-RW-054*	*GW-15620-061509-RR-017*
	Sample Date:	*6/9/2009*	*6/18/2009*	*7/21/2009*	*7/22/2009*	*6/15/2009*
Parameter	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	ND (0.29)	ND (0.29)	ND (0.29)	-	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	-	ND (0.20)
1,1,2-Trichloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	-	ND (0.20)
1,1-Dichloroethane	µg/L	ND (0.12)	ND (0.12)	ND (0.12)	-	ND (0.12)
1,1-Dichloroethene	µg/L	ND (0.30)	ND (0.30)	ND (0.30)	-	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	-	ND (0.15)
1,2,4-Trichlorobenzene	µg/L	ND (0.27)	0.30 J	ND (0.27)	-	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	-	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	-	ND (0.18)
1,2-Dichlorobenzene	µg/L	ND (0.15)	ND (0.15)	2.2	-	ND (0.15)
1,2-Dichloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	-	ND (0.21)
1,2-Dichloropropane	µg/L	ND (0.095)	ND (0.095)	ND (0.095)	-	ND (0.095)
1,3-Dichlorobenzene	µg/L	ND (0.11)	ND (0.11)	0.14 J	-	ND (0.11)
1,4-Dichlorobenzene	µg/L	ND (0.21)	ND (0.21)	0.54 J	-	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (0.55)	ND (0.55) J	ND (0.55)	-	ND (0.55) J
2-Hexanone	µg/L	ND (0.16)	ND (0.16) J	ND (0.16)	-	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (0.53)	ND (0.53) J	ND (0.53)	-	ND (0.53)
Acetone	µg/L	ND (2.5)	ND (2.5) J	ND (2.5)	-	3.7 J
Benzene	µg/L	ND (0.11)	ND (0.11)	0.37 J	-	ND (0.11)
Bromodichloromethane	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	-	ND (0.13)
Bromoform	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	-	ND (0.19)
Bromomethane (Methyl Bromide)	µg/L	ND (0.31)	ND (0.31)	ND (0.31) J	-	ND (0.31)
Carbon disulfide	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	-	ND (0.21)
Carbon tetrachloride	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	-	ND (0.14)
Chlorobenzene	µg/L	ND (0.14)	ND (0.14)	6.1	-	2.7
Chloroethane	µg/L	ND (0.21)	ND (0.21) J	ND (0.21)	-	ND (0.21)
Chloroform (Trichloromethane)	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	-	ND (0.17)
Chloromethane (Methyl Chloride)	µg/L	ND (0.28) J	ND (0.28)	ND (0.28)	-	ND (0.28)
cis-1,2-Dichloroethene	µg/L	ND (0.24)	ND (0.24)	ND (0.24)	-	ND (0.24)
cis-1,3-Dichloropropene	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	-	ND (0.19)
Cyclohexane	µg/L	ND (0.25)	ND (0.25)	1.1	-	ND (0.25)
Dibromochloromethane	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	-	ND (0.14)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (0.19) J	ND (0.19) J	ND (0.19) J	-	ND (0.19)
Ethylbenzene	µg/L	ND (0.23)	ND (0.23)	1.2	-	ND (0.23)
Isopropylbenzene	µg/L	ND (0.16)	ND (0.16)	0.48 J	-	ND (0.16)
Methyl acetate	µg/L	ND (0.14)	ND (0.14) J	ND (0.14)	-	ND (0.14)
Methyl cyclohexane	µg/L	ND (0.26)	ND (0.26)	0.60 J	-	ND (0.26)
Methyl Tert Butyl Ether	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	-	ND (0.18)
Methylene chloride	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	-	ND (0.15)
Volatile Organic Compounds (Cont'd.)						
Styrene	µg/L	ND (0.097)	ND (0.097)	ND (0.097)	-	ND (0.097)
Tetrachloroethene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	-	ND (0.15)
Toluene	µg/L	ND (0.15)	ND (0.15)	2.2	-	ND (0.15)
trans-1,2-Dichloroethene	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	-	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-1-102*	*MW-2-10*	*MW-3*	*MW-3*	*MW-3-14*
	Sample ID:	*GW-15620-060909-RR-003*	*GW-15620-061809-MM-014*	*GW-15620-072109-RW-54*	*GW-15620-072209-RW-054*	*GW-15620-061509-RR-017*
	Sample Date:	*6/9/2009*	*6/18/2009*	*7/21/2009*	*7/22/2009*	*6/15/2009*
Parameter	*Units*					
trans-1,3-Dichloropropene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	-	ND (0.15)
Trichloroethene	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	-	ND (0.14)
Trichlorofluoromethane (CFC-11)	µg/L	ND (0.20)	ND (0.20)	ND (0.20) J	-	ND (0.20)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (0.32)	ND (0.32)	ND (0.32)	-	ND (0.32)
Vinyl chloride	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	-	ND (0.23)
Xylene (total)	µg/L	ND (0.49)	ND (0.49)	1.6 J	-	ND (0.49)
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.33)	ND (0.33)	-	ND (0.33)	ND (0.35)
2,4,5-Trichlorophenol	µg/L	ND (0.15)	ND (0.14)	-	ND (0.15)	ND (0.15)
2,4,6-Trichlorophenol	µg/L	ND (0.087)	ND (0.086)	-	ND (0.087)	ND (0.092)
2,4-Dichlorophenol	µg/L	ND (0.13)	ND (0.13)	-	ND (0.13)	ND (0.14)
2,4-Dimethylphenol	µg/L	ND (0.077)	ND (0.076)	-	ND (0.077)	ND (0.081)
2,4-Dinitrophenol	µg/L	ND (5.9)	ND (5.8)	-	ND (5.9)	ND (6.2)
2,4-Dinitrotoluene	µg/L	ND (0.16)	ND (0.16)	-	ND (0.16)	ND (0.17)
2,6-Dinitrotoluene	µg/L	ND (0.18)	ND (0.18)	-	ND (0.18)	ND (0.19)
2-Chloronaphthalene	µg/L	ND (0.15)	ND (0.14)	-	ND (0.15)	ND (0.15)
2-Chlorophenol	µg/L	ND (0.20)	ND (0.20)	-	ND (0.20)	ND (0.21)
2-Methylnaphthalene	µg/L	ND (0.15)	ND (0.15)	-	ND (0.15)	ND (0.16)
2-Methylphenol	µg/L	ND (0.13)	ND (0.13)	-	ND (0.13)	ND (0.14)
2-Nitroaniline	µg/L	ND (0.16)	ND (0.16)	-	ND (0.16)	ND (0.17)
2-Nitrophenol	µg/L	ND (0.13)	ND (0.13)	-	ND (0.13)	ND (0.14)
3,3'-Dichlorobenzidine	µg/L	ND (0.35)	ND (0.34)	-	ND (0.35)	ND (0.37)
3-Nitroaniline	µg/L	ND (0.25)	ND (0.25)	-	ND (0.25)	ND (0.26)
4,6-Dinitro-2-methylphenol	µg/L	ND (7.5)	ND (7.4)	-	ND (7.5)	ND (7.9)
4-Bromophenyl phenyl ether	µg/L	ND (0.18)	ND (0.18)	-	ND (0.18)	ND (0.19)
4-Chloro-3-methylphenol	µg/L	ND (0.24)	ND (0.24)	-	ND (0.24)	ND (0.26)
4-Chloroaniline	µg/L	ND (1.0)	ND (1.0)	-	ND (1.0)	ND (1.1)
4-Chlorophenyl phenyl ether	µg/L	ND (0.10)	ND (0.099)	-	ND (0.10)	ND (0.11)
4-Methylphenol	µg/L	ND (0.17)	ND (0.17)	-	ND (0.17)	ND (0.18)
4-Nitroaniline	µg/L	ND (0.22)	ND (0.22)	-	ND (0.22)	ND (0.23)
4-Nitrophenol	µg/L	ND (6.8)	ND (6.7)	-	ND (6.8)	ND (7.1)
Acenaphthene	µg/L	ND (0.14)	ND (0.14)	-	ND (0.14)	ND (0.15)
Acenaphthylene	µg/L	ND (0.081)	ND (0.080)	-	ND (0.081)	ND (0.085)
Acetophenone	µg/L	ND (0.21)	ND (0.21)	-	ND (0.21)	ND (0.22)
Semi-Volatile Organic Compounds (Cont'd.)						
Aniline	µg/L	ND (0.39)	ND (0.39)	-	ND (0.39)	ND (0.41)
Anthracene	µg/L	ND (1.0)	ND (0.99)	-	ND (1.0)	ND (1.0)
Atrazine	µg/L	ND (0.19)	ND (0.19)	-	ND (0.19)	ND (0.20)
Benzaldehyde	µg/L	ND (0.48)	ND (0.48)	-	ND (0.48)	ND (0.51)
Benzo(a)anthracene	µg/L	ND (0.17)	ND (0.17)	-	ND (0.17)	ND (0.18)
Benzo(a)pyrene	µg/L	ND (0.11)	ND (0.11)	-	ND (0.11)	ND (0.12)
Benzo(b)fluoranthene	µg/L	ND (0.16)	ND (0.15)	-	ND (0.16)	ND (0.16)
Benzo(g,h,i)perylene	µg/L	ND (0.083)	ND (0.082)	-	ND (0.083)	ND (0.087)
Benzo(k)fluoranthene	µg/L	ND (0.16)	ND (0.16)	-	ND (0.16)	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
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ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-1-102*	*MW-2-10*	*MW-3*	*MW-3*	*MW-3-14*
	Sample ID:	*GW-15620-060909-RR-003*	*GW-15620-061809-MM-014*	*GW-15620-072109-RW-54*	*GW-15620-072209-RW-054*	*GW-15620-061509-RR-017*
	Sample Date:	*6/9/2009*	*6/18/2009*	*7/21/2009*	*7/22/2009*	*6/15/2009*
Parameter	*Units*					
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.15)	ND (0.15)	-	ND (0.15)	ND (0.16)
bis(2-Chloroethoxy)methane	µg/L	ND (0.13)	ND (0.13)	-	ND (0.13)	ND (0.14)
bis(2-Chloroethyl)ether	µg/L	ND (0.25)	ND (0.25)	-	ND (0.25)	ND (0.27)
bis(2-Ethylhexyl)phthalate	µg/L	ND (0.44)	ND (0.44)	-	6.4 J	2.9 J
Butyl benzylphthalate	µg/L	ND (2.9)	ND (2.9)	-	ND (2.9)	ND (3.1)
Caprolactam	µg/L	ND (6.9)	ND (6.9)	-	ND (6.9)	ND (7.3)
Carbazole	µg/L	ND (0.13)	ND (0.13)	-	ND (0.13)	ND (0.14)
Chrysene	µg/L	ND (0.10)	ND (0.10)	-	ND (0.10)	ND (0.11)
Dibenz(a,h)anthracene	µg/L	ND (0.12)	ND (0.12)	-	ND (0.12)	ND (0.13)
Dibenzofuran	µg/L	ND (0.18)	ND (0.18)	-	ND (0.18)	ND (0.19)
Diethyl phthalate	µg/L	ND (0.43)	ND (0.43)	-	9.0 J	ND (0.45)
Dimethyl phthalate	µg/L	ND (0.13)	ND (0.13)	-	ND (0.13)	ND (0.14)
Di-n-butylphthalate	µg/L	ND (0.29)	ND (0.28)	-	ND (0.29)	ND (0.30)
Di-n-octyl phthalate	µg/L	ND (0.15)	ND (0.15)	-	ND (0.15)	ND (0.16)
Fluoranthene	µg/L	ND (0.096)	ND (0.095)	-	ND (0.096)	ND (0.10)
Fluorene	µg/L	ND (0.095)	ND (0.094)	-	ND (0.095)	ND (0.10)
Hexachlorobenzene	µg/L	ND (0.17)	ND (0.17)	-	ND (0.17)	ND (0.18)
Hexachlorobutadiene	µg/L	ND (0.12)	ND (0.12)	-	ND (0.12)	ND (0.12)
Hexachlorocyclopentadiene	µg/L	ND (0.11)	ND (0.11)	-	ND (0.11)	ND (0.12)
Hexachloroethane	µg/L	ND (0.074)	ND (0.073)	-	ND (0.074)	ND (0.077)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.15)	ND (0.15)	-	ND (0.15)	ND (0.16)
Isophorone	µg/L	ND (0.28)	ND (0.27)	-	ND (0.28)	ND (0.29)
Naphthalene	µg/L	ND (0.27)	ND (0.26)	-	ND (0.27)	ND (0.28)
Nitrobenzene	µg/L	ND (0.17)	ND (0.17)	-	ND (0.17)	ND (0.18)
N-Nitrosodi-n-propylamine	µg/L	ND (0.37)	ND (0.37)	-	ND (0.37)	ND (0.39)
N-Nitrosodiphenylamine	µg/L	ND (0.47)	ND (0.46)	-	ND (0.47)	ND (0.49)
Pentachlorophenol	µg/L	ND (1.8)	ND (1.8)	-	ND (1.8)	ND (1.9)
Phenanthrene	µg/L	ND (0.27)	ND (0.27)	-	ND (0.27)	ND (0.29)
Phenol	µg/L	ND (0.23)	ND (0.22)	-	ND (0.23)	ND (0.24)
Pyrene	µg/L	ND (0.11)	ND (0.11)	-	ND (0.11)	ND (0.11)
Metals						
Aluminum	µg/L	ND (108)	111 J	-	3440	ND (74.7)
Aluminum (Dissolved)	µg/L	ND (80.6)	86.5 J	-	1170	ND (70.6)
Antimony	µg/L	ND (1.3)	ND (1.3)	-	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	ND (1.3)	ND (1.3)	-	1.6 J	ND (1.3)
Arsenic	µg/L	6.6 J	2.8 J	-	4.3 J	ND (2.7)
Arsenic (Dissolved)	µg/L	6.8 J	ND (2.7)	-	4.2 J	3.1 J
Barium	µg/L	16.8 J	41.5 J	-	51.6 J	27.2 J
Barium (Dissolved)	µg/L	16.2 J	40.0 J	-	38.0 J	27.5 J
Beryllium	µg/L	ND (0.38)	ND (0.23)	-	ND (0.36)	ND (0.52)
Beryllium (Dissolved)	µg/L	ND (0.52)	ND (0.23)	-	ND (0.32)	ND (0.48)
Cadmium	µg/L	ND (0.13)	ND (0.13)	-	6.1	ND (0.13)
Cadmium (Dissolved)	µg/L	ND (0.13)	ND (0.13)	-	2.8 J	ND (0.13)
Calcium	µg/L	21700	14300	-	10500	79300
Calcium (Dissolved)	µg/L	21700	14600	-	10900	80300

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-1-102*	*MW-2-10*	*MW-3*	*MW-3*	*MW-3-14*
	Sample ID:	*GW-15620-060909-RR-003*	*GW-15620-061809-MM-014*	*GW-15620-072109-RW-54*	*GW-15620-072209-RW-054*	*GW-15620-061509-RR-017*
	Sample Date:	*6/9/2009*	*6/18/2009*	*7/21/2009*	*7/22/2009*	*6/15/2009*
Parameter	***Units***					
Chromium	µg/L	1.1 J	ND (1.1)	-	9.5	1.2 J
Chromium Total (Dissolved)	µg/L	0.76 J	ND (0.57)	-	ND (5.0)	0.69 J
Cobalt	µg/L	ND (0.40)	10.2 J	-	2.7 J	1.6 J
Cobalt (Dissolved)	µg/L	ND (0.40)	9.6 J	-	2.4 J	2.3 J
Copper	µg/L	ND (2.7)	3.5 J	-	69.5	ND (2.7)
Copper (Dissolved)	µg/L	ND (2.7)	ND (2.7)	-	54.6	ND (2.7)
Iron	µg/L	26.9 J	1120	-	6320	850
Iron (Dissolved)	µg/L	ND (11.9)	654	-	3070	727
Lead	µg/L	ND (1.3)	ND (2.3)	-	70.9	1.3 J
Lead (Dissolved)	µg/L	ND (1.3)	ND (1.3)	-	41.2	ND (1.3)
Magnesium	µg/L	1250 J	1670 J	-	1200 J	2960 J
Magnesium (Dissolved)	µg/L	1350 J	1710 J	-	995 J	3030 J
Manganese	µg/L	26.6	1050	-	338	1210
Manganese (Dissolved)	µg/L	27.3	1030	-	321	1230
Mercury	µg/L	ND (0.057)	ND (0.038)	-	0.092 J	ND (0.038)
Mercury (Dissolved)	µg/L	ND (0.048)	ND (0.038)	-	0.046 J	ND (0.038)
Nickel	µg/L	ND (1.6)	8.3 J	-	8.8 J	3.9 J
Nickel (Dissolved)	µg/L	ND (1.6)	7.5 J	-	5.1 J	3.6 J
Potassium	µg/L	2920 J	614 J	-	2150 J	2230 J
Potassium (Dissolved)	µg/L	2760 J	ND (648)	-	2540 J	2260 J
Selenium	µg/L	ND (3.0)	ND (3.0)	-	ND (3.0)	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0)	ND (3.0)	-	ND (3.0)	ND (3.0)
Silver	µg/L	ND (0.68)	ND (0.68)	-	ND (0.68)	0.77 J
Silver (Dissolved)	µg/L	ND (0.68)	ND (0.68)	-	ND (0.68)	0.69 J
Metals (Cont'd.)						
Sodium	µg/L	20300	4080 J	-	200000	5200
Sodium (Dissolved)	µg/L	19100	4290 J	-	230000	5180
Thallium	µg/L	ND (2.4)	ND (2.4)	-	ND (2.4)	ND (2.4)
Thallium (Dissolved)	µg/L	ND (3.4)	ND (4.8)	-	ND (2.4)	ND (3.7)
Vanadium	µg/L	4.0 J	ND (1.9)	-	7.6 J	ND (1.9)
Vanadium (Dissolved)	µg/L	2.5 J	ND (1.9)	-	2.9 J	ND (1.9)
Zinc	µg/L	ND (4.1)	21.0 J	-	131	ND (5.6)
Zinc (Dissolved)	µg/L	ND (5.0)	20.4	-	85.5	ND (8.2)
Polychlorinated Biphenyls						
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0024)	ND (0.0024)	-	ND (0.0024)	ND (0.0025)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0024)	ND (0.0024)	-	ND (0.0023)	ND (0.0025)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0028)	ND (0.0028)	-	ND (0.0028)	ND (0.0029)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0018)	ND (0.0018)	-	ND (0.0017)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	0.0084 J	ND (0.0022)	-	ND (0.0021)	ND (0.0023)
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0022)	ND (0.0022)	-	ND (0.0022)	0.050
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0013)	ND (0.0013)	-	ND (0.0013)	ND (0.0013)
Gases						
Carbon dioxide	µg/L	ND (210)	7500	-	36000	21000

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-1-102*	*MW-2-10*	*MW-3*	*MW-3*	*MW-3-14*
	Sample ID:	*GW-15620-060909-RR-003*	*GW-15620-061809-MM-014*	*GW-15620-072109-RW-54*	*GW-15620-072209-RW-054*	*GW-15620-061509-RR-017*
	Sample Date:	*6/9/2009*	*6/18/2009*	*7/21/2009*	*7/22/2009*	*6/15/2009*
Parameter	***Units***					
General Chemistry						
Alkalinity, Total (as CaCO3)	mg/L	43.8	36.2	68.0	-	181
Ammonia	mg/L	0.20	0.34	-	ND (0.47)	0.29
Chloride	mg/L	11.3	4.1	244	-	0.83 J
Dissolved Organic Carbon (DOC), Dissolved	mg/L	0.91 J	4.4	-	39.4	13.9
Nitrate (as N)	mg/L	0.70	ND (0.0077)	ND (0.0077)	-	ND (0.0077)
Nitrite (as N)	mg/L	ND (0.0032)	ND (0.0032)	0.16	-	ND (0.0032)
Sulfate	mg/L	35.4	12.4	4.8	-	41.0

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-3-42*	*MW-3-D*	*MW-3-I*	*MW-4*	*MW-4-18*	*MW-5*
	Sample ID:	*GW-15620-062309-RR-021*	*GW-15620-062309-RR-023*	*GW-15620-062409-RR-025*	*GW-15620-072109-RW-52*	*GW-15620-061009-RR-005*	*GW-15620-072209-RR-079*
	Sample Date:	*6/23/2009*	*6/23/2009*	*6/24/2009*	*7/21/2009*	*6/10/2009*	*7/22/2009*
Parameter	*Units*						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	ND (72)	ND (0.29)	ND (0.29)	ND (7.2)	ND (0.29)	ND (7.2)
1,1,2,2-Tetrachloroethane	µg/L	ND (50)	ND (0.20)	ND (0.20)	ND (5.0)	ND (0.20)	ND (5.0)
1,1,2-Trichloroethane	µg/L	ND (50)	ND (0.20)	ND (0.20)	ND (5.0)	ND (0.20)	ND (5.0)
1,1-Dichloroethane	µg/L	ND (29)	ND (0.12)	ND (0.12)	ND (2.9)	ND (0.12)	ND (2.9)
1,1-Dichloroethene	µg/L	ND (74)	ND (0.30)	ND (0.30)	ND (7.4)	ND (0.30)	ND (7.4)
1,2,3-Trichlorobenzene	µg/L	49 J	ND (0.15)	ND (0.15)	ND (3.9)	ND (0.15)	ND (3.9)
1,2,4-Trichlorobenzene	µg/L	160 J	ND (0.27)	4.4	8.2 J	ND (0.27)	ND (6.8)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (35)	ND (0.14)	ND (0.14)	ND (3.5)	ND (0.14)	ND (3.5)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (45)	ND (0.18)	ND (0.18)	ND (4.5)	ND (0.18)	ND (4.5)
1,2-Dichlorobenzene	µg/L	8300	ND (0.15)	6.0	100	ND (0.15)	ND (3.8)
1,2-Dichloroethane	µg/L	ND (53)	ND (0.21)	ND (0.21)	ND (5.3)	ND (0.21)	ND (5.3)
1,2-Dichloropropane	µg/L	ND (24)	ND (0.095)	ND (0.095)	ND (2.4)	ND (0.095)	ND (2.4)
1,3-Dichlorobenzene	µg/L	100 J	ND (0.11)	1.2	5.5 J	ND (0.11)	2.9 J
1,4-Dichlorobenzene	µg/L	1400	ND (0.21)	2.9	24 J	ND (0.21)	9.5 J
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (140)	ND (0.55)	ND (0.55)	ND (14)	ND (0.55)	ND (14)
2-Hexanone	µg/L	ND (40)	ND (0.16)	ND (0.16)	ND (4.0)	ND (0.16)	ND (4.0)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (130)	ND (0.53)	ND (0.53)	ND (13)	ND (0.53)	ND (13)
Acetone	µg/L	ND (620)	ND (2.5)	ND (2.5)	ND (62)	ND (2.5)	ND (62)
Benzene	µg/L	ND (26)	ND (0.11)	ND (0.11)	24 J	ND (0.11)	37
Bromodichloromethane	µg/L	ND (32)	ND (0.13)	ND (0.13)	ND (3.2)	ND (0.13)	ND (3.2)
Bromoform	µg/L	ND (48)	ND (0.19)	ND (0.19)	ND (4.8)	ND (0.19)	ND (4.8)
Bromomethane (Methyl Bromide)	µg/L	ND (78)	ND (0.31)	ND (0.31)	ND (7.8) J	ND (0.31)	ND (7.8) J
Carbon disulfide	µg/L	ND (53)	ND (0.21)	ND (0.21)	ND (5.3)	ND (0.21)	ND (5.3)
Carbon tetrachloride	µg/L	ND (34)	ND (0.14)	ND (0.14)	ND (3.4)	ND (0.14) J	ND (3.4)
Chlorobenzene	µg/L	4000	ND (0.14)	11	520	ND (0.14)	440
Chloroethane	µg/L	ND (54)	ND (0.21)	ND (0.21)	ND (5.4)	ND (0.21)	ND (5.4)
Chloroform (Trichloromethane)	µg/L	ND (43)	ND (0.17)	ND (0.17)	ND (4.3)	ND (0.17)	ND (4.3)
Chloromethane (Methyl Chloride)	µg/L	ND (71)	ND (0.28)	ND (0.28)	ND (7.1)	ND (0.28)	ND (7.1)
cis-1,2-Dichloroethene	µg/L	ND (59)	ND (0.24)	ND (0.24)	ND (5.9)	ND (0.24)	ND (5.9)
cis-1,3-Dichloropropene	µg/L	ND (47)	ND (0.19)	ND (0.19)	ND (4.7)	ND (0.19)	ND (4.7)
Cyclohexane	µg/L	ND (64)	ND (0.25)	ND (0.25)	ND (6.4)	ND (0.25)	ND (6.4)
Dibromochloromethane	µg/L	ND (34)	ND (0.14)	ND (0.14)	ND (3.4)	ND (0.14)	ND (3.4)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (48)	ND (0.19)	ND (0.19)	ND (4.8) J	ND (0.19) J	ND (4.8) J
Ethylbenzene	µg/L	ND (57)	ND (0.23)	ND (0.23)	8.0 J	ND (0.23)	ND (5.7)
Isopropylbenzene	µg/L	ND (41)	ND (0.16)	ND (0.16)	ND (4.1)	ND (0.16)	6.2 J
Methyl acetate	µg/L	ND (34) J	ND (0.14) J	ND (0.14) J	ND (3.4)	ND (0.14)	ND (3.4)
Methyl cyclohexane	µg/L	ND (65)	ND (0.26)	ND (0.26)	ND (6.5)	ND (0.26)	ND (6.5)
Methyl Tert Butyl Ether	µg/L	ND (46)	ND (0.18)	ND (0.18)	ND (4.6)	ND (0.18)	ND (4.6)
Methylene chloride	µg/L	67 J	ND (0.15) J	ND (0.15) J	ND (3.7)	ND (0.15)	ND (3.7)
Volatile Organic Compounds (Cont'd.)							
Styrene	µg/L	ND (24)	ND (0.097)	ND (0.097)	ND (2.4)	ND (0.097)	ND (2.4)
Tetrachloroethene	µg/L	ND (37)	ND (0.15)	ND (0.15)	ND (3.7)	ND (0.15)	ND (3.7)
Toluene	µg/L	ND (38)	ND (0.15)	ND (0.15)	9.4 J	ND (0.15)	ND (3.8)
trans-1,2-Dichloroethene	µg/L	ND (42)	ND (0.17)	ND (0.17)	ND (4.2)	ND (0.17)	ND (4.2)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-3-42*	*MW-3-D*	*MW-3-I*	*MW-4*	*MW-4-18*	*MW-5*
	Sample ID:	*GW-15620-062309-RR-021*	*GW-15620-062309-RR-023*	*GW-15620-062409-RR-025*	*GW-15620-072109-RW-52*	*GW-15620-061009-RR-005*	*GW-15620-072209-RR-079*
	Sample Date:	*6/23/2009*	*6/23/2009*	*6/24/2009*	*7/21/2009*	*6/10/2009*	*7/22/2009*
Parameter	*Units*						
trans-1,3-Dichloropropene	µg/L	ND (37)	ND (0.15)	ND (0.15)	ND (3.7)	ND (0.15)	ND (3.7)
Trichloroethene	µg/L	ND (36)	ND (0.14)	ND (0.14)	ND (3.6)	ND (0.14)	ND (3.6)
Trichlorofluoromethane (CFC-11)	µg/L	ND (50)	ND (0.20)	ND (0.20)	ND (5.0) J	ND (0.20)	ND (5.0) J
Trifluorotrichloroethane (Freon 113)	µg/L	ND (80)	ND (0.32)	ND (0.32)	ND (8.0)	ND (0.32)	ND (8.0)
Vinyl chloride	µg/L	ND (57)	ND (0.23)	ND (0.23)	ND (5.7)	ND (0.23)	ND (5.7)
Xylene (total)	µg/L	ND (120)	ND (0.49)	ND (0.49)	15 J	ND (0.49)	ND (12)
Semi-Volatile Organic Compounds							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.33)	ND (0.35)	ND (0.35)	ND (0.33)	ND (0.33)	ND (0.35)
2,4,5-Trichlorophenol	µg/L	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.15)
2,4,6-Trichlorophenol	µg/L	ND (0.085)	ND (0.091)	ND (0.093)	ND (0.087)	ND (0.086)	ND (0.093)
2,4-Dichlorophenol	µg/L	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)
2,4-Dimethylphenol	µg/L	ND (0.076)	ND (0.080)	ND (0.082)	ND (0.077)	ND (0.076)	ND (0.082)
2,4-Dinitrophenol	µg/L	ND (5.8)	ND (6.1)	ND (6.3)	ND (5.9)	ND (5.8)	ND (6.3)
2,4-Dinitrotoluene	µg/L	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.17)
2,6-Dinitrotoluene	µg/L	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)
2-Chloronaphthalene	µg/L	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.15)
2-Chlorophenol	µg/L	1.8 J	ND (0.21)	ND (0.21)	ND (0.20)	ND (0.20)	ND (0.21)
2-Methylnaphthalene	µg/L	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.16)
2-Methylphenol	µg/L	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)
2-Nitroaniline	µg/L	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.17)
2-Nitrophenol	µg/L	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)
3,3'-Dichlorobenzidine	µg/L	ND (0.34)	ND (0.36)	ND (0.37)	ND (0.35)	ND (0.34)	ND (0.37)
3-Nitroaniline	µg/L	ND (0.24)	ND (0.26)	ND (0.26)	ND (0.25)	ND (0.25)	ND (0.26)
4,6-Dinitro-2-methylphenol	µg/L	ND (7.3)	ND (7.8)	ND (8.0)	ND (7.5)	ND (7.4)	ND (8.0)
4-Bromophenyl phenyl ether	µg/L	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)
4-Chloro-3-methylphenol	µg/L	ND (0.24)	ND (0.25)	ND (0.26)	ND (0.24)	ND (0.24)	ND (0.26)
4-Chloroaniline	µg/L	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.0)	ND (1.0)	ND (1.1)
4-Chlorophenyl phenyl ether	µg/L	ND (0.098)	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.099)	ND (0.11)
4-Methylphenol	µg/L	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.18)
4-Nitroaniline	µg/L	ND (0.21)	ND (0.23)	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.23)
4-Nitrophenol	µg/L	ND (6.6)	ND (7.0)	ND (7.2)	ND (6.8)	ND (6.7)	ND (7.2)
Acenaphthene	µg/L	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)	1.3 J
Acenaphthylene	µg/L	ND (0.080)	ND (0.085)	ND (0.086)	ND (0.081)	ND (0.080)	ND (0.086)
Acetophenone	µg/L	ND (0.21)	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.22)
Semi-Volatile Organic Compounds (Cont'd.)							
Aniline	µg/L	67	ND (0.41)	ND (0.42)	87	ND (0.39)	ND (0.42)
Anthracene	µg/L	ND (0.98)	ND (1.0)	ND (1.1)	ND (1.0)	ND (0.99)	ND (1.1)
Atrazine	µg/L	ND (0.19)	ND (0.20)	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.21)
Benzaldehyde	µg/L	ND (0.47)	ND (0.50)	ND (0.51)	ND (0.48)	ND (0.48)	ND (0.51)
Benzo(a)anthracene	µg/L	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.18)
Benzo(a)pyrene	µg/L	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)
Benzo(b)fluoranthene	µg/L	ND (0.15)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.15)	ND (0.17)
Benzo(g,h,i)perylene	µg/L	ND (0.081)	ND (0.087)	ND (0.088)	ND (0.083)	ND (0.082)	ND (0.088)
Benzo(k)fluoranthene	µg/L	ND (0.15)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.17)

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ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-3-42*	*MW-3-D*	*MW-3-I*	*MW-4*	*MW-4-18*	*MW-5*
	Sample ID:	*GW-15620-062309-RR-021*	*GW-15620-062309-RR-023*	*GW-15620-062409-RR-025*	*GW-15620-072109-RW-52*	*GW-15620-061009-RR-005*	*GW-15620-072209-RR-079*
	Sample Date:	*6/23/2009*	*6/23/2009*	*6/24/2009*	*7/21/2009*	*6/10/2009*	*7/22/2009*
Parameter	***Units***						
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.14)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.16)
bis(2-Chloroethoxy)methane	µg/L	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)
bis(2-Chloroethyl)ether	µg/L	ND (0.25)	ND (0.26)	ND (0.27)	ND (0.25)	ND (0.25)	ND (0.27)
bis(2-Ethylhexyl)phthalate	µg/L	ND (0.43)	1.7 J	ND (0.47)	ND (0.44)	ND (0.44)	5.4 J
Butyl benzylphthalate	µg/L	ND (2.9)	ND (3.1)	ND (3.1)	ND (2.9)	ND (2.9)	ND (3.1)
Caprolactam	µg/L	ND (6.8)	ND (7.2)	8.1 J	8.1 J	ND (6.9)	ND (7.4)
Carbazole	µg/L	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)
Chrysene	µg/L	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.11)
Dibenz(a,h)anthracene	µg/L	ND (0.12)	ND (0.13)	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.13)
Dibenzofuran	µg/L	ND (0.17)	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.18)	0.24 J
Diethyl phthalate	µg/L	ND (0.42)	ND (0.45)	ND (0.46)	8.6 J	ND (0.43)	ND (0.46)
Dimethyl phthalate	µg/L	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)
Di-n-butylphthalate	µg/L	ND (0.28)	ND (0.30)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.30)
Di-n-octyl phthalate	µg/L	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.16)
Fluoranthene	µg/L	ND (0.094)	ND (0.10)	ND (0.10)	ND (0.096)	ND (0.095)	ND (0.10)
Fluorene	µg/L	ND (0.093)	ND (0.099)	ND (0.10)	ND (0.095)	ND (0.094)	0.70 J
Hexachlorobenzene	µg/L	ND (0.17)	ND (0.18)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.19)
Hexachlorobutadiene	µg/L	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Hexachlorocyclopentadiene	µg/L	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)
Hexachloroethane	µg/L	ND (0.072)	ND (0.077)	ND (0.078)	ND (0.074)	ND (0.073)	ND (0.078)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.16)
Isophorone	µg/L	ND (0.27)	ND (0.29)	ND (0.29)	ND (0.28)	ND (0.27)	ND (0.29)
Naphthalene	µg/L	0.37 J	ND (0.28)	ND (0.28)	5.2	ND (0.26)	5.0
Nitrobenzene	µg/L	2.7	ND (0.18)	3.1	710	ND (0.17)	ND (0.18)
N-Nitrosodi-n-propylamine	µg/L	ND (0.36)	ND (0.39)	ND (0.39)	ND (0.37)	ND (0.37)	ND (0.39)
N-Nitrosodiphenylamine	µg/L	ND (0.46)	ND (0.49)	ND (0.50)	ND (0.47)	ND (0.46)	ND (0.50)
Pentachlorophenol	µg/L	ND (1.8)	ND (1.9)	ND (1.9)	ND (1.8)	ND (1.8)	ND (1.9)
Phenanthrene	µg/L	0.27 J	ND (0.28)	ND (0.29)	ND (0.27)	ND (0.27)	ND (0.29)
Phenol	µg/L	ND (0.22)	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.22)	ND (0.24)
Pyrene	µg/L	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Metals							
Aluminum	µg/L	ND (9.7)	ND (9.7)	99.2 J	768	ND (162)	ND (141)
Aluminum (Dissolved)	µg/L	ND (9.7)	ND (9.7)	ND (9.7)	912	ND (27.6)	ND (49.3)
Antimony	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	1.4 J	ND (1.3)	1.4 J
Antimony (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	2.4 J	ND (1.3)	ND (1.3)
Arsenic	µg/L	8.4 J	4.0 J	4.9 J	5.4 J	ND (2.7)	10.4
Arsenic (Dissolved)	µg/L	5.9 J	3.2 J	4.9 J	2.8 J	ND (2.7)	10
Barium	µg/L	11.3 J	12.1 J	8.0 J	24.9 J	ND (8.9)	33.9 J
Barium (Dissolved)	µg/L	10.4 J	12.2 J	7.6 J	24.0 J	8.2 J	33.2 J
Beryllium	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.25)
Beryllium (Dissolved)	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.24)
Cadmium	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.22)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.25)	ND (0.13)	ND (0.13)
Calcium	µg/L	27600	24700	32700	5740	11700	27000
Calcium (Dissolved)	µg/L	26700	24900	32000	4830 J	12200	27500

TABLE 3

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	Sample Location:	*MW-3-42*	*MW-3-D*	*MW-3-I*	*MW-4*	*MW-4-18*	*MW-5*
	Sample ID:	*GW-15620-062309-RR-021*	*GW-15620-062309-RR-023*	*GW-15620-062409-RR-025*	*GW-15620-072109-RW-52*	*GW-15620-061009-RR-005*	*GW-15620-072209-RR-079*
	Sample Date:	*6/23/2009*	*6/23/2009*	*6/24/2009*	*7/21/2009*	*6/10/2009*	*7/22/2009*
Parameter	***Units***						
Chromium	µg/L	0.62 J	ND (0.57)	ND (0.57)	ND (2.5)	ND (1.2)	ND (2.0)
Chromium Total (Dissolved)	µg/L	ND (0.57)	ND (0.57)	ND (0.57)	2.8 J	ND (1.6)	ND (1.5)
Cobalt	µg/L	ND (0.40)	ND (0.40)	1.2 J	ND (1.8)	ND (0.40)	2.1 J
Cobalt (Dissolved)	µg/L	ND (0.40)	ND (0.40)	1.4 J	ND (1.7)	ND (0.40)	2.4 J
Copper	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	24.2 J	ND (2.7)	ND (2.7)
Copper (Dissolved)	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	22.4 J	ND (2.7)	ND (2.7)
Iron	µg/L	9750	314	986	1840	144	28200
Iron (Dissolved)	µg/L	8860	274	828	2030	12.8 J	27200
Lead	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	12.7	ND (1.3)	2.3 J
Lead (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	10.8	ND (1.3)	ND (1.3)
Magnesium	µg/L	5750	5310	4550 J	486 J	1850 J	5520
Magnesium (Dissolved)	µg/L	5530	5370	4450 J	488 J	1880 J	5720
Manganese	µg/L	1140	231	376	127	50.6	2480
Manganese (Dissolved)	µg/L	1100	224	370	94.2	43.1	2480
Mercury	µg/L	ND (0.038)	0.042 J	ND (0.038)	0.073 J	ND (0.038)	0.14 J
Mercury (Dissolved)	µg/L	ND (0.038)	ND (0.038)	ND (0.038)	0.045 J	ND (0.038)	ND (0.038)
Nickel	µg/L	ND (1.6)	ND (1.6)	ND (1.6)	10.6 J	ND (1.6)	2.3 J
Nickel (Dissolved)	µg/L	ND (1.6)	ND (1.6)	ND (1.6)	11.0 J	ND (1.6)	2.0 J
Potassium	µg/L	1240 J	1220 J	1920 J	2050 J	1440 J	4090 J
Potassium (Dissolved)	µg/L	1180 J	1230 J	2030 J	2000 J	1470 J	4370 J
Selenium	µg/L	ND (3.0)	ND (3.0)	ND (3.0) J	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0)	ND (3.0)	ND (3.0) J	ND (3.0)	ND (3.0)	ND (3.0)
Silver	µg/L	ND (0.68)	ND (0.68)	0.83 J	ND (0.68)	ND (0.68)	1.3 J
Silver (Dissolved)	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Metals (Cont'd.)							
Sodium	µg/L	12900	9640	18100	194000	ND (7610)	50900
Sodium (Dissolved)	µg/L	12400 J	9580 J	17700	184000	7050	57500
Thallium	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	ND (3.8)	ND (2.4)
Thallium (Dissolved)	µg/L	ND (2.4)	2.5 J	ND (2.4)	ND (2.4)	ND (2.4)	2.8 J
Vanadium	µg/L	2.4 J	ND (1.9)	ND (1.9)	2.1 J	ND (1.9)	2.8 J
Vanadium (Dissolved)	µg/L	2.5 J	ND (1.9)	ND (1.9)	2.4 J	ND (1.9)	1.9 J
Zinc	µg/L	ND (8.6)	ND (3.7)	ND (2.5)	52.3	ND (9.6)	52.5
Zinc (Dissolved)	µg/L	ND (5.8)	ND (12.4)	4.6 J	50.6	ND (7.0)	62.4
Polychlorinated Biphenyls							
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0025)	ND (0.0025)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0025)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0025)	ND (0.0025)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0025)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0029)	ND (0.0029)	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0029)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0019)	ND (0.0018)	1.3 J	ND (0.0018)	ND (0.0018)	0.022
Aroclor-1248 (PCB-1248)	µg/L	ND (0.0023)	ND (0.0023)	ND (0.0022)	0.016	ND (0.0022)	ND (0.0023)
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0023)	ND (0.0023)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0023)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0014)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0014)
Gases							
Carbon dioxide	µg/L	4500	ND (210)	8000	18000	15000	47000

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JUNE TO AUGUST 2009

	Sample Location:	*MW-3-42*	*MW-3-D*	*MW-3-I*	*MW-4*	*MW-4-18*	*MW-5*
	Sample ID:	*GW-15620-062309-RR-021*	*GW-15620-062309-RR-023*	*GW-15620-062409-RR-025*	*GW-15620-072109-RW-52*	*GW-15620-061009-RR-005*	*GW-15620-072209-RR-079*
	Sample Date:	*6/23/2009*	*6/23/2009*	*6/24/2009*	*7/21/2009*	*6/10/2009*	*7/22/2009*
Parameter	*Units*						
General Chemistry							
Alkalinity, Total (as CaCO3)	mg/L	81.7	63.6	102	111	22.4	140
Ammonia	mg/L	0.53	0.51	0.24	0.92	0.21	3.8
Chloride	mg/L	7.5	8.4	7.0	209	6.8	77.5
Dissolved Organic Carbon (DOC), Dissolved	mg/L	1.2	0.19 J	1.8	12.2	1.1	11.0
Nitrate (as N)	mg/L	ND (0.0077)	ND (0.0077)	ND (0.0077)	0.39	1.6	0.41
Nitrite (as N)	mg/L	ND (0.0032)	ND (0.0032)	ND (0.0032)	0.17	ND (0.0032)	0.066
Sulfate	mg/L	25.7	25.9	30.1	13.4	13.1	ND (0.031)

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	Sample Location:	*MW-5-16*	*MW-5-58*	*MW-6*	*MW-6-17*	*MW-6-75*
	Sample ID:	*GW-15620-063009-RR-031*	*GW-15620-070609-RR-033*	*GW-15620-072209-RW-074*	*GW-15620-061709-MM-010*	*GW-15620-061709-MM-008*
	Sample Date:	*6/30/2009*	*7/6/2009*	*7/22/2009*	*6/17/2009*	*6/17/2009*
Parameter	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	ND (0.29)	ND (140)	ND (3.6)	ND (1.4)	ND (110)
1,1,2,2-Tetrachloroethane	µg/L	ND (0.20)	ND (100)	ND (2.5)	ND (1.0)	ND (80)
1,1,2-Trichloroethane	µg/L	ND (0.20)	ND (100)	ND (2.5)	ND (1.0)	ND (81)
1,1-Dichloroethane	µg/L	ND (0.12)	ND (58)	ND (1.5)	ND (0.58)	ND (47)
1,1-Dichloroethene	µg/L	ND (0.30)	ND (150)	ND (3.7)	ND (1.5)	ND (120)
1,2,3-Trichlorobenzene	µg/L	ND (0.15)	ND (77)	ND (1.9) J	23	1200
1,2,4-Trichlorobenzene	µg/L	ND (0.27)	ND (140)	ND (3.4)	100	6300
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (0.14)	ND (70)	ND (1.8) J	ND (0.70)	ND (56)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (0.18)	ND (90)	ND (2.3)	ND (0.90)	ND (72)
1,2-Dichlorobenzene	µg/L	ND (0.15)	ND (76)	ND (1.9)	97	4400
1,2-Dichloroethane	µg/L	ND (0.21)	ND (110)	ND (2.6)	ND (1.1)	ND (85)
1,2-Dichloropropane	µg/L	ND (0.095)	ND (47)	ND (1.2)	ND (0.47)	ND (38)
1,3-Dichlorobenzene	µg/L	ND (0.11)	ND (53)	ND (1.3)	10	430
1,4-Dichlorobenzene	µg/L	ND (0.21)	ND (100)	ND (2.6)	35	940
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (0.55)	ND (270)	ND (6.8)	ND (2.7)	ND (220)
2-Hexanone	µg/L	ND (0.16)	ND (80)	ND (2.0)	ND (0.80)	ND (64)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (0.53)	ND (260)	ND (6.6)	ND (2.6)	ND (210)
Acetone	µg/L	4.4 J	ND (1200)	ND (31)	ND (12)	ND (1000)
Benzene	µg/L	0.23 J	ND (53)	210	ND (0.53)	ND (42)
Bromodichloromethane	µg/L	ND (0.13)	ND (65)	ND (1.6)	ND (0.65)	ND (52)
Bromoform	µg/L	ND (0.19)	ND (96)	ND (2.4) J	ND (0.96)	ND (77)
Bromomethane (Methyl Bromide)	µg/L	ND (0.31)	ND (160)	ND (3.9) J	ND (1.6)	ND (130)
Carbon disulfide	µg/L	ND (0.21)	ND (110)	ND (2.6)	ND (1.1)	ND (85)
Carbon tetrachloride	µg/L	ND (0.14)	ND (68)	ND (1.7)	ND (0.68) J	ND (55) J
Chlorobenzene	µg/L	15	5700	38	57	9600
Chloroethane	µg/L	ND (0.21)	ND (110)	ND (2.7)	ND (1.1) J	ND (86) J
Chloroform (Trichloromethane)	µg/L	ND (0.17)	ND (85)	ND (2.1)	ND (0.85)	ND (68)
Chloromethane (Methyl Chloride)	µg/L	ND (0.28)	ND (140)	ND (3.5)	ND (1.4)	ND (110)
cis-1,2-Dichloroethene	µg/L	ND (0.24)	ND (120)	ND (3.0)	ND (1.2)	ND (95)
cis-1,3-Dichloropropene	µg/L	ND (0.19)	ND (93)	ND (2.3)	ND (0.93)	ND (75)
Cyclohexane	µg/L	ND (0.25)	ND (130)	5.5 J	ND (1.3)	ND (100)
Dibromochloromethane	µg/L	ND (0.14)	ND (68)	ND (1.7)	ND (0.68)	ND (55)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (0.19)	ND (96) J	ND (2.4)	ND (0.96)	ND (77)
Ethylbenzene	µg/L	ND (0.23)	ND (110)	ND (2.8)	ND (1.1)	ND (91)
Isopropylbenzene	µg/L	ND (0.16)	ND (82)	3.0 J	ND (0.82)	ND (66)
Methyl acetate	µg/L	ND (0.14)	ND (69)	ND (1.7)	ND (0.69)	ND (55)
Methyl cyclohexane	µg/L	ND (0.26)	ND (130)	ND (3.3)	ND (1.3)	ND (100)
Methyl Tert Butyl Ether	µg/L	ND (0.18)	ND (92)	5.5 J	ND (0.92)	ND (73)
Methylene chloride	µg/L	ND (0.15)	ND (75)	ND (1.9)	ND (0.75)	ND (60)
Volatile Organic Compounds (Cont'd.)						
Styrene	µg/L	ND (0.097)	ND (48)	ND (1.2)	ND (0.48)	ND (39)
Tetrachloroethene	µg/L	ND (0.15)	ND (74)	ND (1.9)	ND (0.74)	ND (59)
Toluene	µg/L	ND (0.15)	ND (75)	4.3 J	ND (0.75)	90 J
trans-1,2-Dichloroethene	µg/L	ND (0.17)	ND (85)	ND (2.1)	ND (0.85)	ND (68)

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DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-5-16*	*MW-5-58*	*MW-6*	*MW-6-17*	*MW-6-75*
	Sample ID:	*GW-15620-063009-RR-031*	*GW-15620-070609-RR-033*	*GW-15620-072209-RW-074*	*GW-15620-061709-MM-010*	*GW-15620-061709-MM-008*
	Sample Date:	*6/30/2009*	*7/6/2009*	*7/22/2009*	*6/17/2009*	*6/17/2009*
Parameter	***Units***					
trans-1,3-Dichloropropene	µg/L	ND (0.15)	ND (74)	ND (1.8)	ND (0.74)	ND (59)
Trichloroethene	µg/L	0.22 J	ND (72)	ND (4.2)	0.98 J	ND (57)
Trichlorofluoromethane (CFC-11)	µg/L	ND (0.20)	ND (99)	ND (2.5)	ND (0.99)	ND (80)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (0.32)	ND (160)	ND (4.0)	ND (1.6)	ND (130)
Vinyl chloride	µg/L	ND (0.23)	ND (110)	ND (2.8)	ND (1.1)	ND (91)
Xylene (total)	µg/L	ND (0.49)	ND (240)	9.2 J	ND (2.4)	ND (200)
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.34)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)
2,4,5-Trichlorophenol	µg/L	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.14)	1.1 J
2,4,6-Trichlorophenol	µg/L	ND (0.088)	ND (0.085)	ND (0.086)	ND (0.086)	0.71 J
2,4-Dichlorophenol	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	1.4 J
2,4-Dimethylphenol	µg/L	ND (0.078)	ND (0.076)	ND (0.076)	ND (0.076)	0.68 J
2,4-Dinitrophenol	µg/L	ND (6.0)	ND (5.8)	ND (5.8)	ND (5.8)	ND (5.8)
2,4-Dinitrotoluene	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	0.75 J
2,6-Dinitrotoluene	µg/L	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
2-Chloronaphthalene	µg/L	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.14)	0.88 J
2-Chlorophenol	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	2.2 J
2-Methylnaphthalene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	0.71 J
2-Methylphenol	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)	0.82 J
2-Nitroaniline	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	1.1 J
2-Nitrophenol	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
3,3'-Dichlorobenzidine	µg/L	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	3.4 J
3-Nitroaniline	µg/L	ND (0.25)	ND (0.24)	ND (0.25)	ND (0.25)	0.98 J
4,6-Dinitro-2-methylphenol	µg/L	ND (7.6)	ND (7.3)	ND (7.4)	ND (7.4)	ND (7.3)
4-Bromophenyl phenyl ether	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	0.90 J
4-Chloro-3-methylphenol	µg/L	ND (0.25)	ND (0.24)	ND (0.24)	ND (0.24)	1.0 J
4-Chloroaniline	µg/L	ND (1.1)	ND (1.0)	ND (1.0)	ND (1.0)	1.7 J
4-Chlorophenyl phenyl ether	µg/L	ND (0.10)	ND (0.098)	ND (0.099)	ND (0.099)	0.85 J
4-Methylphenol	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	0.20 J	2.2 J
4-Nitroaniline	µg/L	ND (0.22)	ND (0.21)	ND (0.22)	ND (0.22)	0.80 J
4-Nitrophenol	µg/L	ND (6.8)	ND (6.6)	ND (6.7)	ND (6.7)	ND (6.6)
Acenaphthene	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	0.85 J
Acenaphthylene	µg/L	ND (0.082)	ND (0.080)	ND (0.080)	ND (0.080)	0.80 J
Acetophenone	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Semi-Volatile Organic Compounds (Cont'd.)						
Aniline	µg/L	ND (0.40)	ND (0.38)	ND (0.39)	7.8 J	2800
Anthracene	µg/L	ND (1.0)	ND (0.98)	ND (0.99)	ND (0.99)	ND (0.98)
Atrazine	µg/L	ND (0.20)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Benzaldehyde	µg/L	ND (0.49)	ND (0.47)	ND (0.48)	ND (0.48)	ND (0.47)
Benzo(a)anthracene	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	1.1 J
Benzo(a)pyrene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	8.4
Benzo(b)fluoranthene	µg/L	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Benzo(g,h,i)perylene	µg/L	ND (0.084)	ND (0.081)	ND (0.082)	ND (0.082)	7.0
Benzo(k)fluoranthene	µg/L	ND (0.16)	ND (0.15)	ND (0.16)	ND (0.16)	1.0 J

TABLE 3

ANALYTICAL RESULTS SUMMARY
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DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-5-16*	*MW-5-58*	*MW-6*	*MW-6-17*	*MW-6-75*
	Sample ID:	*GW-15620-063009-RR-031*	*GW-15620-070609-RR-033*	*GW-15620-072209-RW-074*	*GW-15620-061709-MM-010*	*GW-15620-061709-MM-008*
	Sample Date:	*6/30/2009*	*7/6/2009*	*7/22/2009*	*6/17/2009*	*6/17/2009*
Parameter	***Units***					
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.15)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.14)
bis(2-Chloroethoxy)methane	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
bis(2-Chloroethyl)ether	µg/L	ND (0.26)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
bis(2-Ethylhexyl)phthalate	µg/L	ND (0.45)	3.6 J	3.0 J	ND (0.44)	3.6 J
Butyl benzylphthalate	µg/L	ND (3.0)	ND (2.9)	ND (2.9)	ND (2.9)	ND (2.9)
Caprolactam	µg/L	7.0 J	ND (6.8)	ND (6.9)	7.4 J	ND (6.8)
Carbazole	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	1.0 J
Chrysene	µg/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	1.2 J
Dibenz(a,h)anthracene	µg/L	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	12
Dibenzofuran	µg/L	ND (0.18)	ND (0.17)	ND (0.18)	ND (0.18)	0.92 J
Diethyl phthalate	µg/L	ND (0.44)	ND (0.42)	8.3 J	ND (0.43)	1.2 J
Dimethyl phthalate	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Di-n-butylphthalate	µg/L	ND (0.29)	ND (0.28)	ND (0.28)	ND (0.28)	1.2 J
Di-n-octyl phthalate	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	8.0 J
Fluoranthene	µg/L	ND (0.097)	ND (0.094)	ND (0.095)	ND (0.095)	1.1 J
Fluorene	µg/L	ND (0.096)	ND (0.093)	ND (0.094)	ND (0.094)	0.95 J
Hexachlorobenzene	µg/L	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)	0.89 J
Hexachlorobutadiene	µg/L	ND (0.12)	ND (0.11)	ND (0.12)	ND (0.12)	ND (0.11)
Hexachlorocyclopentadiene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Hexachloroethane	µg/L	ND (0.074)	ND (0.072)	ND (0.073)	ND (0.073)	ND (0.072)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)	9.7
Isophorone	µg/L	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.27)	0.93 J
Naphthalene	µg/L	ND (0.27)	ND (0.26)	ND (0.26)	ND (0.26)	42
Nitrobenzene	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	2.2	480
N-Nitrosodi-n-propylamine	µg/L	ND (0.37)	ND (0.36)	ND (0.37)	ND (0.37)	ND (0.36)
N-Nitrosodiphenylamine	µg/L	ND (0.47)	ND (0.46)	ND (0.46)	ND (0.46)	0.93 J
Pentachlorophenol	µg/L	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.8)
Phenanthrene	µg/L	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.27)	1.2 J
Phenol	µg/L	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.22)
Pyrene	µg/L	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	1.1 J
Metals						
Aluminum	µg/L	ND (43.1)	ND (139)	ND (52.5)	ND (67.0)	ND (29.2)
Aluminum (Dissolved)	µg/L	ND (28.0)	ND (112)	ND (44.0)	ND (69.4)	ND (28.3)
Antimony	µg/L	ND (1.3)	1.3 J	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	µg/L	ND (2.7)	12.2	51.2	ND (2.7)	4.1 J
Arsenic (Dissolved)	µg/L	ND (2.7)	11.8	60.3	ND (2.7)	5.2 J
Barium	µg/L	18.3 J	6.9 J	626	9.6 J	18.7 J
Barium (Dissolved)	µg/L	18.4 J	6.6 J	679	9.6 J	18.6 J
Beryllium	µg/L	ND (0.23)	ND (0.23)	ND (0.25) U	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	µg/L	ND (0.23)	ND (0.23)	ND (0.35) U	ND (0.23)	ND (0.23)
Cadmium	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.23)	ND (0.13)
Cadmium (Dissolved)	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	0.17 J	ND (0.13)
Calcium	µg/L	42400	18500	20500	18300	29300
Calcium (Dissolved)	µg/L	43700	18500	20000	18400	29200

TABLE 3

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	Sample Location:	*MW-5-16*	*MW-5-58*	*MW-6*	*MW-6-17*	*MW-6-75*
	Sample ID:	*GW-15620-063009-RR-031*	*GW-15620-070609-RR-033*	*GW-15620-072209-RW-074*	*GW-15620-061709-MM-010*	*GW-15620-061709-MM-008*
	Sample Date:	*6/30/2009*	*7/6/2009*	*7/22/2009*	*6/17/2009*	*6/17/2009*
Parameter	***Units***					
Chromium	µg/L	ND (0.57)	ND (0.57)	ND (4.2)	ND (1.1)	ND (0.57)
Chromium Total (Dissolved)	µg/L	ND (0.57)	ND (0.57)	ND (3.9)	0.71 J	ND (0.57)
Cobalt	µg/L	ND (0.40)	ND (0.40)	ND (0.40)	27.6 J	ND (0.40)
Cobalt (Dissolved)	µg/L	ND (0.40)	ND (0.40)	ND (0.40)	28.1 J	ND (0.40)
Copper	µg/L	2.7 J	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	µg/L	3.4 J	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Iron	µg/L	111	ND (62.3)	51200	ND (29.7)	1800
Iron (Dissolved)	µg/L	ND (11.9)	ND (46.3)	54200	ND (11.9)	1620
Lead	µg/L	ND (2.0)	ND (1.3)	ND (3.4)	ND (1.3)	ND (1.3)
Lead (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Magnesium	µg/L	2400 J	3660 J	5430	4450 J	5350
Magnesium (Dissolved)	µg/L	2490 J	3860 J	5630	4550 J	5430
Manganese	µg/L	88.0	45.1	3140	3070	936
Manganese (Dissolved)	µg/L	59.2	45.2	3100	3080	935
Mercury	µg/L	ND (0.038)	ND (0.038)	0.16 J	ND (0.038)	ND (0.038)
Mercury (Dissolved)	µg/L	ND (0.038)	ND (0.038)	0.040 J	ND (0.038)	ND (0.038)
Nickel	µg/L	6.1 J	ND (1.6)	ND (1.6)	13.5 J	ND (1.6)
Nickel (Dissolved)	µg/L	6.0 J	ND (1.6)	ND (1.6)	13.4 J	ND (1.6)
Potassium	µg/L	1390 J	13700	3560 J	1330 J	1590 J
Potassium (Dissolved)	µg/L	1470 J	12900	3530 J	1320 J	1590 J
Selenium	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	µg/L	ND (0.68)	ND (0.68)	0.75 J	ND (0.97)	ND (2.1)
Silver (Dissolved)	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	0.68 J	ND (0.68)
Metals (Cont'd.)						
Sodium	µg/L	2770 J	15400	28900	13100	32400
Sodium (Dissolved)	µg/L	2910 J	14800	29400	13300	33000
Thallium	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	ND (4.3)	ND (2.4)
Thallium (Dissolved)	µg/L	ND (2.4)	ND (2.4)	2.4 J	ND (5.9)	ND (3.6)
Vanadium	µg/L	6.4 J	2.2 J	2.2 J	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	µg/L	6.3 J	2.1 J	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	µg/L	ND (4.2)	ND (2.5)	ND (10.9)	22.1	ND (4.1)
Zinc (Dissolved)	µg/L	4.9 J	ND (2.5)	ND (2.5)	25.8	ND (3.9)
Polychlorinated Biphenyls						
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0024)	ND (0.0025)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0028)	ND (0.0028)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0018)	ND (0.0018)	0.029	ND (0.0018)	0.28
Aroclor-1248 (PCB-1248)	µg/L	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
Gases						
Carbon dioxide	µg/L	18000	ND (210)	40000	21000	5100

TABLE 3

ANALYTICAL RESULTS SUMMARY
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ZENECA, INC.
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	Sample Location:	*MW-5-16*	*MW-5-58*	*MW-6*	*MW-6-17*	*MW-6-75*
	Sample ID:	*GW-15620-063009-RR-031*	*GW-15620-070609-RR-033*	*GW-15620-072209-RW-074*	*GW-15620-061709-MM-010*	*GW-15620-061709-MM-008*
	Sample Date:	*6/30/2009*	*7/6/2009*	*7/22/2009*	*6/17/2009*	*6/17/2009*
Parameter	***Units***					
General Chemistry						
Alkalinity, Total (as CaCO3)	mg/L	117	63.7	102	11.1	99.4
Ammonia	mg/L	0.065 J	0.20	3.5	0.47	2.6
Chloride	mg/L	ND (0.50)	7.9	42.1	19.3	32.8
Dissolved Organic Carbon (DOC), Dissolved	mg/L	5.6	ND (0.79)	12.3	1.3	4.3
Nitrate (as N)	mg/L	ND (0.0077)	0.75	ND (0.0077)	0.50	ND (0.0077)
Nitrite (as N)	mg/L	ND (0.0032)	ND (0.0032)	0.056	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	5.8	20.3	ND (0.031)	54.9	30.8

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-7*	*MW-7*	*MW-7-20*	*MW-7-80*	*MW-7-80*
	Sample ID:	*GW-15620-072309-RR-083*	*GW-15620-072309-RR-085*	*GW-15620-061009-RR-009*	*GW-15620-061009-RR-007*	*GW-15620-061009-RR-011*
	Sample Date:	*7/23/2009*	*7/23/2009*	*6/10/2009*	*6/10/2009*	*6/10/2009*
			Duplicate			*Duplicate*
Parameter	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	µg/L	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
1,1-Dichloroethene	µg/L	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
1,2,4-Trichlorobenzene	µg/L	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
1,2-Dichloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	µg/L	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
1,4-Dichlorobenzene	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (0.55)	0.67 J	ND (0.55)	ND (0.55)	ND (0.55)
2-Hexanone	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Acetone	µg/L	3.2 J	3.1 J	ND (2.5)	3.0 J	6.2
Benzene	µg/L	ND (0.11)	0.11 J	ND (0.11)	ND (0.11)	ND (0.11)
Bromodichloromethane	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Bromoform	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Bromomethane (Methyl Bromide)	µg/L	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)
Carbon disulfide	µg/L	ND (0.21) J	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Carbon tetrachloride	µg/L	ND (0.14)	ND (0.14)	ND (0.14) J	ND (0.14) J	ND (0.14) J
Chlorobenzene	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Chloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Chloromethane (Methyl Chloride)	µg/L	ND (0.28) J	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
cis-1,2-Dichloroethene	µg/L	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Cyclohexane	µg/L	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Dibromochloromethane	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19) J
Ethylbenzene	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Isopropylbenzene	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
Methyl acetate	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Methyl cyclohexane	µg/L	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	µg/L	1.1	1.2	ND (0.18)	0.30 J	0.30 J
Methylene chloride	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Volatile Organic Compounds (Cont'd.)						
Styrene	µg/L	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)
Tetrachloroethene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Toluene	µg/L	0.21 J	0.27 J	ND (0.15)	ND (0.15)	ND (0.15)
trans-1,2-Dichloroethene	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-7*	*MW-7*	*MW-7-20*	*MW-7-80*	*MW-7-80*
	Sample ID:	*GW-15620-072309-RR-083*	*GW-15620-072309-RR-085*	*GW-15620-061009-RR-009*	*GW-15620-061009-RR-007*	*GW-15620-061009-RR-011*
	Sample Date:	*7/23/2009*	*7/23/2009*	*6/10/2009*	*6/10/2009*	*6/10/2009*
			Duplicate			*Duplicate*
Parameter	*Units*					
trans-1,3-Dichloropropene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Trichloroethene	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Vinyl chloride	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Xylene (total)	µg/L	ND (0.49)	0.49 J	ND (0.49)	ND (0.49)	ND (0.49)
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.36)	ND (0.39)	ND (0.34)	ND (0.33)	ND (0.33)
2,4,5-Trichlorophenol	µg/L	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.14)	ND (0.14)
2,4,6-Trichlorophenol	µg/L	ND (0.094)	ND (0.10)	ND (0.089)	ND (0.086)	ND (0.085)
2,4-Dichlorophenol	µg/L	ND (0.14)	ND (0.15)	ND (0.13)	ND (0.13)	ND (0.13)
2,4-Dimethylphenol	µg/L	ND (0.084)	ND (0.090)	ND (0.079)	ND (0.076)	ND (0.076)
2,4-Dinitrophenol	µg/L	ND (6.4)	ND (6.9)	ND (6.0)	ND (5.8)	ND (5.8)
2,4-Dinitrotoluene	µg/L	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	µg/L	ND (0.20)	ND (0.21)	ND (0.19)	ND (0.18)	ND (0.18)
2-Chloronaphthalene	µg/L	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.14)	ND (0.14)
2-Chlorophenol	µg/L	ND (0.22)	ND (0.24)	ND (0.21)	ND (0.20)	ND (0.20)
2-Methylnaphthalene	µg/L	ND (0.16)	ND (0.18)	ND (0.15)	ND (0.15)	ND (0.15)
2-Methylphenol	µg/L	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.13)	ND (0.13)
2-Nitroaniline	µg/L	ND (0.17)	ND (0.19)	ND (0.16)	ND (0.16)	ND (0.16)
2-Nitrophenol	µg/L	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.13)	ND (0.13)
3,3'-Dichlorobenzidine	µg/L	ND (0.38)	ND (0.40)	ND (0.35)	ND (0.34)	ND (0.34)
3-Nitroaniline	µg/L	ND (0.27)	ND (0.29)	ND (0.25)	ND (0.25)	ND (0.24)
4,6-Dinitro-2-methylphenol	µg/L	ND (8.1)	ND (8.7)	ND (7.6)	ND (7.4)	ND (7.3)
4-Bromophenyl phenyl ether	µg/L	ND (0.20)	ND (0.21)	ND (0.18)	ND (0.18)	ND (0.18)
4-Chloro-3-methylphenol	µg/L	ND (0.26)	ND (0.28)	ND (0.25)	ND (0.24)	ND (0.24)
4-Chloroaniline	µg/L	ND (1.1)	ND (1.2)	ND (1.1)	ND (1.0)	ND (1.0)
4-Chlorophenyl phenyl ether	µg/L	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.099)	ND (0.098)
4-Methylphenol	µg/L	ND (0.18)	ND (0.20)	ND (0.17)	ND (0.17)	ND (0.17)
4-Nitroaniline	µg/L	ND (0.24)	ND (0.26)	ND (0.22)	ND (0.22)	ND (0.21)
4-Nitrophenol	µg/L	ND (7.3) J	ND (7.9) J	ND (6.9)	ND (6.7)	ND (6.6)
Acenaphthene	µg/L	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.14)	ND (0.14)
Acenaphthylene	µg/L	ND (0.088)	ND (0.095)	ND (0.083)	ND (0.080)	ND (0.080)
Acetophenone	µg/L	ND (0.23)	ND (0.25)	ND (0.22)	ND (0.21)	ND (0.21)
Semi-Volatile Organic Compounds (Cont'd.)						
Aniline	µg/L	ND (0.42)	ND (0.46)	ND (0.40)	ND (0.39)	ND (0.38)
Anthracene	µg/L	ND (1.1)	ND (1.2)	ND (1.0)	ND (0.99)	ND (0.98)
Atrazine	µg/L	ND (0.21)	ND (0.23)	ND (0.20)	ND (0.19)	ND (0.19)
Benzaldehyde	µg/L	ND (0.52)	ND (0.56)	ND (0.49)	ND (0.48)	ND (0.47)
Benzo(a)anthracene	µg/L	ND (0.18)	ND (0.20)	ND (0.17)	ND (0.17)	ND (0.17)
Benzo(a)pyrene	µg/L	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.11)	ND (0.11)
Benzo(b)fluoranthene	µg/L	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.15)	ND (0.15)
Benzo(g,h,i)perylene	µg/L	ND (0.090)	ND (0.097)	ND (0.085)	ND (0.082)	ND (0.081)
Benzo(k)fluoranthene	µg/L	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.16)	ND (0.15)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-7*	*MW-7*	*MW-7-20*	*MW-7-80*	*MW-7-80*
	Sample ID:	*GW-15620-072309-RR-083*	*GW-15620-072309-RR-085*	*GW-15620-061009-RR-009*	*GW-15620-061009-RR-007*	*GW-15620-061009-RR-011*
	Sample Date:	*7/23/2009*	*7/23/2009*	*6/10/2009*	*6/10/2009*	*6/10/2009*
			Duplicate			*Duplicate*
Parameter	*Units*					
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.15)	ND (0.14)
bis(2-Chloroethoxy)methane	µg/L	ND (0.14)	ND (0.15)	ND (0.13)	ND (0.13)	ND (0.13)
bis(2-Chloroethyl)ether	µg/L	ND (0.27)	ND (0.30)	ND (0.26)	ND (0.25)	ND (0.25)
bis(2-Ethylhexyl)phthalate	µg/L	ND (0.48)	ND (0.52)	ND (0.45)	ND (0.44)	ND (0.43)
Butyl benzylphthalate	µg/L	ND (3.2)	ND (3.4)	ND (3.0)	ND (2.9)	ND (2.9)
Caprolactam	µg/L	ND (7.5)	ND (8.1)	ND (7.1)	ND (6.9)	ND (6.8)
Carbazole	µg/L	ND (0.14)	ND (0.15)	ND (0.13)	ND (0.13)	ND (0.13)
Chrysene	µg/L	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.10)	ND (0.10)
Dibenz(a,h)anthracene	µg/L	ND (0.13)	ND (0.14)	ND (0.12)	ND (0.12)	ND (0.12)
Dibenzofuran	µg/L	ND (0.19)	ND (0.21)	ND (0.18)	ND (0.18)	ND (0.17)
Diethyl phthalate	µg/L	ND (0.47)	ND (0.50)	ND (0.44)	ND (0.43)	ND (0.42)
Dimethyl phthalate	µg/L	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.13)	ND (0.13)
Di-n-butylphthalate	µg/L	ND (0.31)	0.56 J	ND (0.29)	ND (0.28)	ND (0.28)
Di-n-octyl phthalate	µg/L	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.15)	ND (0.15)
Fluoranthene	µg/L	ND (0.10)	ND (0.11)	ND (0.098)	ND (0.095)	ND (0.094)
Fluorene	µg/L	ND (0.10)	ND (0.11)	ND (0.097)	ND (0.094)	ND (0.093)
Hexachlorobenzene	µg/L	ND (0.19)	ND (0.20)	ND (0.18)	ND (0.17)	ND (0.17)
Hexachlorobutadiene	µg/L	ND (0.13)	ND (0.14)	ND (0.12)	ND (0.12)	ND (0.11)
Hexachlorocyclopentadiene	µg/L	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.11)	ND (0.11)
Hexachloroethane	µg/L	ND (0.080)	ND (0.086)	ND (0.075)	ND (0.073)	ND (0.072)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.17)	ND (0.18)	ND (0.16)	ND (0.15)	ND (0.15)
Isophorone	µg/L	ND (0.30)	ND (0.32)	ND (0.28)	ND (0.27)	ND (0.27)
Naphthalene	µg/L	ND (0.29)	ND (0.31)	ND (0.27)	ND (0.26)	ND (0.26)
Nitrobenzene	µg/L	ND (0.19)	ND (0.20)	ND (0.18)	ND (0.17)	ND (0.17)
N-Nitrosodi-n-propylamine	µg/L	ND (0.40)	ND (0.43)	ND (0.38)	ND (0.37)	ND (0.36)
N-Nitrosodiphenylamine	µg/L	ND (0.51)	ND (0.55)	ND (0.48)	ND (0.46)	ND (0.46)
Pentachlorophenol	µg/L	ND (2.0)	ND (2.1)	ND (1.8)	ND (1.8)	ND (1.8)
Phenanthrene	µg/L	ND (0.30)	ND (0.32)	ND (0.28)	ND (0.27)	ND (0.27)
Phenol	µg/L	ND (0.25)	ND (0.26)	ND (0.23)	ND (0.22)	ND (0.22)
Pyrene	µg/L	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.10)
Metals						
Aluminum	µg/L	61.2 J	51.4 J	ND (30.3)	ND (50.5)	ND (42.1)
Aluminum (Dissolved)	µg/L	21.6 J	10.8 J	ND (22.6)	ND (24.4)	ND (23.9)
Antimony	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	µg/L	7.8 J	6.3 J	ND (2.7)	ND (2.7)	ND (2.7)
Arsenic (Dissolved)	µg/L	6.9 J	7.6 J	ND (2.7)	ND (2.7)	ND (2.7)
Barium	µg/L	193 J	193 J	ND (1.9)	14.6 J	ND (12.8)
Barium (Dissolved)	µg/L	184 J	183 J	1.8 J	14.5 J	13.3 J
Beryllium	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Cadmium	µg/L	0.51 J	0.51 J	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	µg/L	0.37 J	ND (0.35)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	µg/L	30300	30400	17800	43300	42500
Calcium (Dissolved)	µg/L	31000	31300	18000	44000	44400

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-7*	*MW-7*	*MW-7-20*	*MW-7-80*	*MW-7-80*
	Sample ID:	*GW-15620-072309-RR-083*	*GW-15620-072309-RR-085*	*GW-15620-061009-RR-009*	*GW-15620-061009-RR-007*	*GW-15620-061009-RR-011*
	Sample Date:	*7/23/2009*	*7/23/2009*	*6/10/2009*	*6/10/2009*	*6/10/2009*
			Duplicate			*Duplicate*
Parameter	*Units*					
Chromium	µg/L	0.76 J	0.79 J	ND (1.0)	ND (0.57)	ND (0.57)
Chromium Total (Dissolved)	µg/L	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)
Cobalt	µg/L	ND (0.40)	ND (0.40)	1.4 J	ND (0.40)	ND (0.40)
Cobalt (Dissolved)	µg/L	ND (0.40)	ND (0.40)	1.5 J	ND (0.40)	ND (0.40)
Copper	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Iron	µg/L	79100	78900	ND (11.9)	472	485
Iron (Dissolved)	µg/L	77000	75800	ND (11.9)	330	360
Lead	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	1.5 J	ND (1.3)
Lead (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	1.4 J	ND (1.3)
Magnesium	µg/L	3810 J	3810 J	3600 J	6290	6220
Magnesium (Dissolved)	µg/L	3780 J	3790 J	3630 J	6410	6520
Manganese	µg/L	3100	3060	2390	407	381
Manganese (Dissolved)	µg/L	3360	3320	2330	396	385
Mercury	µg/L	0.048 J	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Mercury (Dissolved)	µg/L	0.042 J	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	µg/L	2.1 J	2.6 J	3.5 J	ND (1.6)	ND (1.6)
Nickel (Dissolved)	µg/L	2.5 J	2.3 J	3.8 J	ND (1.6)	ND (1.6)
Potassium	µg/L	3260 J	3290 J	1570 J	1500 J	1400 J
Potassium (Dissolved)	µg/L	3170 J	3170 J	1600 J	1580 J	1490 J
Selenium	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Silver (Dissolved)	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Metals (Cont'd.)						
Sodium	µg/L	48500	48100	12700	12700	12600
Sodium (Dissolved)	µg/L	50300	50200	12500	12800	12800
Thallium	µg/L	3.6 J	3.8 J	ND (2.4)	ND (3.7)	ND (2.4)
Thallium (Dissolved)	µg/L	4.6 J	4.0 J	ND (2.4)	ND (2.4)	ND (2.4)
Vanadium	µg/L	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	µg/L	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	µg/L	2.5 J	2.6 J	ND (6.6)	ND (10.6)	ND (6.2)
Zinc (Dissolved)	µg/L	ND (2.5)	ND (2.5)	ND (8.2)	ND (17.7)	ND (10.6)
Polychlorinated Biphenyls						
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0025)	ND (0.0026)	ND (0.0025)	ND (0.0025)	ND (0.0024)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0024)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0030)	ND (0.0030)	ND (0.0029)	ND (0.0029)	ND (0.0028)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0019)	ND (0.0019)	ND (0.0018)	ND (0.0019)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	0.034	0.033	ND (0.0023)	ND (0.0023)	ND (0.0022)
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.0022)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0014)	ND (0.0014)	ND (0.0013)	ND (0.0014)	ND (0.0013)
Gases						
Carbon dioxide	µg/L	81000	81000	15000	3500	4000

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-7*	*MW-7*	*MW-7-20*	*MW-7-80*	*MW-7-80*
	Sample ID:	*GW-15620-072309-RR-083*	*GW-15620-072309-RR-085*	*GW-15620-061009-RR-009*	*GW-15620-061009-RR-007*	*GW-15620-061009-RR-011*
	Sample Date:	*7/23/2009*	*7/23/2009*	*6/10/2009*	*6/10/2009*	*6/10/2009*
			Duplicate			*Duplicate*
Parameter	*Units*					
General Chemistry						
Alkalinity, Total (as CaCO3)	mg/L	125	138	11.3	98.5	89.7
Ammonia	mg/L	6.3	8.5	0.64	0.090 J	0.54
Chloride	mg/L	71.4 J	71.7 J	16.4	21.8	22.4
Dissolved Organic Carbon (DOC), Dissolved	mg/L	24.6	24.7	1.7	0.83 J	0.39 J
Nitrate (as N)	mg/L	ND (0.0077)	ND (0.0077)	0.58	0.33	0.40
Nitrite (as N)	mg/L	0.088	ND (0.0032)	ND (0.0032)	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	14.5 J	2.9 J	51.0	32.0	37.9

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-8*	*MW-8-83*	*MW-9*	*MW-9-15*	*MW-9-15*
	Sample ID:	*GW-15620-071009-DS-038*	*GW-15620-070109-MM-016*	*GW-15620-072309-RR-081*	*GW-15620-070609-DS-018*	*GW-15620-070609-DS-020*
	Sample Date:	*7/10/2009*	*7/1/2009*	*7/23/2009*	*7/6/2009*	*7/6/2009*
Parameter	*Units*					*Duplicate*
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	µg/L	ND (0.12)	ND (0.12)	ND (0.12)	0.52 J	0.50 J
1,1-Dichloroethene	µg/L	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
1,2,4-Trichlorobenzene	µg/L	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
1,2-Dichloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	µg/L	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
1,4-Dichlorobenzene	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)
2-Hexanone	µg/L	ND (0.16) J	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Acetone	µg/L	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)
Benzene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Bromodichloromethane	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Bromoform	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Bromomethane (Methyl Bromide)	µg/L	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)
Carbon disulfide	µg/L	ND (0.21)	ND (0.21)	ND (0.21) J	ND (0.21)	ND (0.21)
Carbon tetrachloride	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Chlorobenzene	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Chloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Chloromethane (Methyl Chloride)	µg/L	ND (0.28)	ND (0.28)	ND (0.28) J	ND (0.28)	ND (0.28)
cis-1,2-Dichloroethene	µg/L	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Cyclohexane	µg/L	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Dibromochloromethane	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (0.19) J	ND (0.19) J	ND (0.19)	ND (0.19)	ND (0.19) J
Ethylbenzene	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Isopropylbenzene	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
Methyl acetate	µg/L	ND (0.14) J	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14) J
Methyl cyclohexane	µg/L	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	µg/L	ND (0.18)	0.27 J	10	ND (0.18)	ND (0.18)
Methylene chloride	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Volatile Organic Compounds (Cont'd.)						
Styrene	µg/L	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)
Tetrachloroethene	µg/L	ND (0.15) J	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Toluene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
trans-1,2-Dichloroethene	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-8*	*MW-8-83*	*MW-9*	*MW-9-15*	*MW-9-15*
	Sample ID:	*GW-15620-071009-DS-038*	*GW-15620-070109-MM-016*	*GW-15620-072309-RR-081*	*GW-15620-070609-DS-018*	*GW-15620-070609-DS-020*
	Sample Date:	*7/10/2009*	*7/1/2009*	*7/23/2009*	*7/6/2009*	*7/6/2009*
Parameter	*Units*					*Duplicate*
trans-1,3-Dichloropropene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Trichloroethene	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Vinyl chloride	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Xylene (total)	µg/L	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.33)	ND (0.33)	ND (0.37)	ND (0.33)	ND (0.33)
2,4,5-Trichlorophenol	µg/L	ND (0.14)	R	ND (0.16)	ND (0.14)	ND (0.14)
2,4,6-Trichlorophenol	µg/L	ND (0.085)	R	ND (0.098)	ND (0.085)	ND (0.085)
2,4-Dichlorophenol	µg/L	ND (0.13)	R	ND (0.15)	ND (0.13)	ND (0.13)
2,4-Dimethylphenol	µg/L	ND (0.076)	R	ND (0.087)	ND (0.076)	ND (0.076)
2,4-Dinitrophenol	µg/L	ND (5.8)	R	ND (6.6)	ND (5.8)	ND (5.8)
2,4-Dinitrotoluene	µg/L	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	µg/L	ND (0.18)	ND (0.18)	ND (0.21)	ND (0.18)	ND (0.18)
2-Chloronaphthalene	µg/L	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.14)	ND (0.14)
2-Chlorophenol	µg/L	ND (0.20)	R	ND (0.23)	ND (0.20)	ND (0.20)
2-Methylnaphthalene	µg/L	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.15)
2-Methylphenol	µg/L	ND (0.13)	R	ND (0.15)	ND (0.13)	ND (0.13)
2-Nitroaniline	µg/L	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)	ND (0.16)
2-Nitrophenol	µg/L	ND (0.13)	R	ND (0.15)	ND (0.13)	ND (0.13)
3,3'-Dichlorobenzidine	µg/L	ND (0.34)	ND (0.34)	ND (0.39)	ND (0.34)	ND (0.34)
3-Nitroaniline	µg/L	ND (0.24)	ND (0.25)	ND (0.28)	ND (0.24)	ND (0.24)
4,6-Dinitro-2-methylphenol	µg/L	ND (7.3)	R	ND (8.4)	ND (7.3)	ND (7.3)
4-Bromophenyl phenyl ether	µg/L	ND (0.18)	ND (0.18)	ND (0.20)	ND (0.18)	ND (0.18)
4-Chloro-3-methylphenol	µg/L	ND (0.24)	R	ND (0.27)	ND (0.24)	ND (0.24)
4-Chloroaniline	µg/L	ND (1.0)	ND (1.0)	ND (1.2)	ND (1.0)	ND (1.0)
4-Chlorophenyl phenyl ether	µg/L	ND (0.098)	ND (0.099)	ND (0.11)	ND (0.098)	ND (0.098)
4-Methylphenol	µg/L	ND (0.17)	R	ND (0.19)	ND (0.17)	ND (0.17)
4-Nitroaniline	µg/L	ND (0.21)	ND (0.22)	ND (0.25)	ND (0.21)	ND (0.21)
4-Nitrophenol	µg/L	ND (6.6)	R	ND (7.6) ND (7.6)]	ND (6.6)	ND (6.6)
Acenaphthene	µg/L	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.14)	ND (0.14)
Acenaphthylene	µg/L	ND (0.080)	ND (0.080)	ND (0.091)	ND (0.080)	ND (0.080)
Acetophenone	µg/L	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.21)	ND (0.21)
Semi-Volatile Organic Compounds (Cont'd.)						
Aniline	µg/L	ND (0.38)	ND (0.39)	ND (0.44)	ND (0.38)	ND (0.38)
Anthracene	µg/L	ND (0.98)	ND (0.99)	ND (1.1)	ND (0.98)	ND (0.98)
Atrazine	µg/L	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.19)	ND (0.19)
Benzaldehyde	µg/L	ND (0.47)	ND (0.48)	ND (0.54)	ND (0.47)	ND (0.47)
Benzo(a)anthracene	µg/L	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)
Benzo(a)pyrene	µg/L	ND (0.11)	ND (0.11)	ND (0.13)	ND (0.11)	ND (0.11)
Benzo(b)fluoranthene	µg/L	ND (0.15)	ND (0.15)	ND (0.18)	ND (0.15)	ND (0.15)
Benzo(g,h,i)perylene	µg/L	ND (0.081)	ND (0.082)	ND (0.094)	ND (0.081)	ND (0.081)
Benzo(k)fluoranthene	µg/L	ND (0.15)	ND (0.16)	ND (0.18)	ND (0.15)	ND (0.15)

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	Sample Location:	*MW-8*	*MW-8-83*	*MW-9*	*MW-9-15*	*MW-9-15*
	Sample ID:	*GW-15620-071009-DS-038*	*GW-15620-070109-MM-016*	*GW-15620-072309-RR-081*	*GW-15620-070609-DS-018*	*GW-15620-070609-DS-020*
	Sample Date:	*7/10/2009*	*7/1/2009*	*7/23/2009*	*7/6/2009*	*7/6/2009*
						Duplicate
Parameter	*Units*					
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.14)	ND (0.15)	ND (0.17)	ND (0.14)	ND (0.14)
bis(2-Chloroethoxy)methane	µg/L	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)	ND (0.13)
bis(2-Chloroethyl)ether	µg/L	ND (0.25)	ND (0.25)	ND (0.28)	ND (0.25)	ND (0.25)
bis(2-Ethylhexyl)phthalate	µg/L	ND (0.43)	ND (0.44)	ND (0.50)	3.4 J	ND (0.43)
Butyl benzylphthalate	µg/L	ND (2.9)	ND (2.9)	ND (3.3)	ND (2.9)	ND (2.9)
Caprolactam	µg/L	ND (6.8)	ND (6.9)	ND (7.8)	ND (6.8)	ND (6.8)
Carbazole	µg/L	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)	ND (0.13)
Chrysene	µg/L	ND (0.10)	ND (0.10)	ND (0.12)	ND (0.10)	ND (0.10)
Dibenz(a,h)anthracene	µg/L	ND (0.12)	ND (0.12)	ND (0.14)	ND (0.12)	ND (0.12)
Dibenzofuran	µg/L	ND (0.17)	ND (0.18)	ND (0.20)	ND (0.17)	ND (0.17)
Diethyl phthalate	µg/L	ND (0.42)	ND (0.43)	ND (0.48)	ND (0.42)	ND (0.42)
Dimethyl phthalate	µg/L	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)	ND (0.13)
Di-n-butylphthalate	µg/L	ND (0.28)	ND (0.28)	ND (0.32)	ND (0.28)	ND (0.28)
Di-n-octyl phthalate	µg/L	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.15)
Fluoranthene	µg/L	ND (0.094)	ND (0.095)	ND (0.11)	ND (0.094)	ND (0.094)
Fluorene	µg/L	ND (0.093)	ND (0.094)	ND (0.11)	ND (0.093)	ND (0.093)
Hexachlorobenzene	µg/L	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.17)	ND (0.17)
Hexachlorobutadiene	µg/L	ND (0.11)	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.11)
Hexachlorocyclopentadiene	µg/L	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)
Hexachloroethane	µg/L	ND (0.072)	ND (0.073)	ND (0.083)	ND (0.072)	ND (0.072)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)	ND (0.15)
Isophorone	µg/L	ND (0.27)	ND (0.27)	ND (0.31)	ND (0.27)	ND (0.27)
Naphthalene	µg/L	ND (0.26)	ND (0.26)	ND (0.30)	ND (0.26)	ND (0.26)
Nitrobenzene	µg/L	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)
N-Nitrosodi-n-propylamine	µg/L	ND (0.36)	ND (0.37)	ND (0.42)	ND (0.36)	ND (0.36)
N-Nitrosodiphenylamine	µg/L	ND (0.46)	ND (0.46)	ND (0.53)	ND (0.46)	ND (0.46)
Pentachlorophenol	µg/L	ND (1.8)	R	ND (2.0)	ND (1.8)	ND (1.8)
Phenanthrene	µg/L	ND (0.27)	ND (0.27)	ND (0.31)	ND (0.27)	ND (0.27)
Phenol	µg/L	ND (0.22)	R	ND (0.26)	ND (0.22)	ND (0.22)
Pyrene	µg/L	ND (0.10)	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.10)
Metals						
Aluminum	µg/L	ND (36.6)	ND (33.6)	136 J	-	-
Aluminum (Dissolved)	µg/L	ND (29.5)	ND (28.5)	16.0 J	-	-
Antimony	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	-	-
Antimony (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	-	-
Arsenic	µg/L	ND (2.7)	3.5 J	7.3 J	-	-
Arsenic (Dissolved)	µg/L	ND (2.7)	3.5 J	5.0 J	-	-
Barium	µg/L	17.5 J	65.9 J	138 J	-	-
Barium (Dissolved)	µg/L	18.4 J	66.9 J	170 J	-	-
Beryllium	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	-	-
Beryllium (Dissolved)	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	-	-
Cadmium	µg/L	ND (0.13)	ND (0.13)	0.31 J	-	-
Cadmium (Dissolved)	µg/L	ND (0.13)	ND (0.13)	ND (0.25)	-	-
Calcium	µg/L	44700	43600	21700	-	-
Calcium (Dissolved)	µg/L	47900	44000	23900	-	-

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	Sample Location:	*MW-8*	*MW-8-83*	*MW-9*	*MW-9-15*	*MW-9-15*
	Sample ID:	*GW-15620-071009-DS-038*	*GW-15620-070109-MM-016*	*GW-15620-072309-RR-081*	*GW-15620-070609-DS-018*	*GW-15620-070609-DS-020*
	Sample Date:	*7/10/2009*	*7/1/2009*	*7/23/2009*	*7/6/2009*	*7/6/2009*
Parameter	*Units*					*Duplicate*
Chromium	µg/L	ND (1.1)	ND (0.57)	2.0 J	-	-
Chromium Total (Dissolved)	µg/L	0.58 J	ND (0.57)	1.6 J	-	-
Cobalt	µg/L	0.54 J	ND (0.40)	ND (0.40)	-	-
Cobalt (Dissolved)	µg/L	ND (1.0)	0.42 J	ND (0.40)	-	-
Copper	µg/L	3.2 J	ND (2.7)	ND (2.7)	-	-
Copper (Dissolved)	µg/L	2.9 J	ND (2.7)	4.2 J	-	-
Iron	µg/L	221	65.9 J	60400	-	-
Iron (Dissolved)	µg/L	157	54.0 J	62500	-	-
Lead	µg/L	ND (1.3)	ND (1.3)	2.5 J	-	-
Lead (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	-	-
Magnesium	µg/L	1130 J	6690	5250	-	-
Magnesium (Dissolved)	µg/L	1220 J	6750	5290	-	-
Manganese	µg/L	174	715	1070	-	-
Manganese (Dissolved)	µg/L	191	731	1070	-	-
Mercury	µg/L	ND (0.038)	ND (0.038)	0.039 J	-	-
Mercury (Dissolved)	µg/L	ND (0.038)	ND (0.038)	ND (0.038)	-	-
Nickel	µg/L	2.0 J	ND (1.6)	2.0 J	-	-
Nickel (Dissolved)	µg/L	ND (1.6)	ND (1.6)	1.6 J	-	-
Potassium	µg/L	4680 J	1000 J	6860	-	-
Potassium (Dissolved)	µg/L	5220	1040 J	6640	-	-
Selenium	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	-	-
Selenium (Dissolved)	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	-	-
Silver	µg/L	ND (0.68)	ND (0.68)	1.2 J	-	-
Silver (Dissolved)	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	-	-
Metals (Cont'd.)						
Sodium	µg/L	28900	12900	47400	-	-
Sodium (Dissolved)	µg/L	31000	13100	45700	-	-
Thallium	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	-	-
Thallium (Dissolved)	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	-	-
Vanadium	µg/L	ND (1.9)	ND (1.9)	1.9 J	-	-
Vanadium (Dissolved)	µg/L	ND (1.9)	ND (1.9)	ND (1.9)	-	-
Zinc	µg/L	6.7 J	ND (2.5)	ND (2.5)	-	-
Zinc (Dissolved)	µg/L	9.2 J	3.4 J	9.1 J	-	-
Polychlorinated Biphenyls						
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0024)	ND (0.0025)	ND (0.0025)	ND (0.0024)	ND (0.0024)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0023)	ND (0.0024)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0028)	ND (0.0029)	ND (0.0029)	ND (0.0028)	ND (0.0028)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.0017)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0021)	ND (0.0022)
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
Gases						
Carbon dioxide	µg/L	11000	3100	34000	9900	11000

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	Sample Location:	*MW-8*	*MW-8-83*	*MW-9*	*MW-9-15*	*MW-9-15*
	Sample ID:	*GW-15620-071009-DS-038*	*GW-15620-070109-MM-016*	*GW-15620-072309-RR-081*	*GW-15620-070609-DS-018*	*GW-15620-070609-DS-020*
	Sample Date:	*7/10/2009*	*7/1/2009*	*7/23/2009*	*7/6/2009*	*7/6/2009*
						Duplicate
Parameter	*Units*					
General Chemistry						
Alkalinity, Total (as CaCO3)	mg/L	170	104	119	41.8	50.4
Ammonia	mg/L	0.69	0.40	4.0	0.33	0.47
Chloride	mg/L	21.0	24.8	69.4 J	15.7	15.6
Dissolved Organic Carbon (DOC), Dissolved	mg/L	5.8	1.1	13.2	ND (1.1)	ND (0.80)
Nitrate (as N)	mg/L	0.018 J	ND (0.0077)	0.24	2.4 J	ND (0.0077) J
Nitrite (as N)	mg/L	0.23	ND (0.0032)	0.068	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	8.0	27.2	ND (0.031)	50.8	50.9

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	Sample Location:	*MW-9-15*	*MW-9-70*	*MW-9-70*	*MW-9-70*	*MW-10-14*	*MW-10-40*
	Sample ID:	*GW-15620-070809-DS-020*	*GW-15620-070609-DS-022*	*GW-15620-070809-DS-018*	*GW-15620-070809-DS-022*	*GW-15620-070609-RR-037*	*GW-15620-070609-RR-039*
	Sample Date:	*7/8/2009*	*7/6/2009*	*7/8/2009*	*7/8/2009*	*7/6/2009*	*7/6/2009*
Parameter	*Units*						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	-	ND (0.29)	-	-	ND (0.29)	ND (7.2)
1,1,2,2-Tetrachloroethane	µg/L	-	ND (0.20)	-	-	ND (0.20)	ND (5.0)
1,1,2-Trichloroethane	µg/L	-	ND (0.20)	-	-	ND (0.20)	ND (5.0)
1,1-Dichloroethane	µg/L	-	ND (0.12)	-	-	ND (0.12)	ND (2.9)
1,1-Dichloroethene	µg/L	-	ND (0.30)	-	-	ND (0.30)	ND (7.4)
1,2,3-Trichlorobenzene	µg/L	-	ND (0.15)	-	-	ND (0.15)	ND (3.9)
1,2,4-Trichlorobenzene	µg/L	-	ND (0.27)	-	-	ND (0.27)	ND (6.8)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	ND (0.14)	-	-	ND (0.14)	ND (3.5)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	-	ND (0.18)	-	-	ND (0.18)	ND (4.5)
1,2-Dichlorobenzene	µg/L	-	ND (0.15)	-	-	ND (0.15)	ND (3.8)
1,2-Dichloroethane	µg/L	-	ND (0.21)	-	-	ND (0.21)	ND (5.3)
1,2-Dichloropropane	µg/L	-	ND (0.095)	-	-	ND (0.095)	ND (2.4)
1,3-Dichlorobenzene	µg/L	-	ND (0.11)	-	-	ND (0.11)	ND (2.6)
1,4-Dichlorobenzene	µg/L	-	ND (0.21)	-	-	ND (0.21)	ND (5.2)
2-Butanone (Methyl Ethyl Ketone)	µg/L	-	ND (0.55)	-	-	ND (0.55)	ND (14)
2-Hexanone	µg/L	-	ND (0.16)	-	-	ND (0.16)	ND (4.0)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	ND (0.53)	-	-	ND (0.53)	ND (13)
Acetone	µg/L	-	ND (2.5)	-	-	ND (2.5)	ND (62)
Benzene	µg/L	-	ND (0.11)	-	-	ND (0.11)	ND (2.6)
Bromodichloromethane	µg/L	-	ND (0.13)	-	-	ND (0.13)	ND (3.2)
Bromoform	µg/L	-	ND (0.19)	-	-	ND (0.19)	ND (4.8)
Bromomethane (Methyl Bromide)	µg/L	-	ND (0.31)	-	-	ND (0.31)	ND (7.8)
Carbon disulfide	µg/L	-	ND (0.21)	-	-	ND (0.21)	ND (5.3)
Carbon tetrachloride	µg/L	-	ND (0.14)	-	-	ND (0.14)	ND (3.4)
Chlorobenzene	µg/L	-	ND (0.14)	-	-	ND (0.14)	18 J
Chloroethane	µg/L	-	ND (0.21)	-	-	ND (0.21)	ND (5.4)
Chloroform (Trichloromethane)	µg/L	-	ND (0.17)	-	-	ND (0.17)	ND (4.3)
Chloromethane (Methyl Chloride)	µg/L	-	ND (0.28)	-	-	ND (0.28)	ND (7.1)
cis-1,2-Dichloroethene	µg/L	-	ND (0.24)	-	-	ND (0.24)	49
cis-1,3-Dichloropropene	µg/L	-	ND (0.19)	-	-	ND (0.19)	ND (4.7)
Cyclohexane	µg/L	-	ND (0.25)	-	-	ND (0.25)	ND (6.4)
Dibromochloromethane	µg/L	-	ND (0.14)	-	-	ND (0.14)	ND (3.4)
Dichlorodifluoromethane (CFC-12)	µg/L	-	ND (0.19) J	-	-	ND (0.19)	ND (4.8)
Ethylbenzene	µg/L	-	ND (0.23)	-	-	ND (0.23)	ND (5.7)
Isopropylbenzene	µg/L	-	ND (0.16)	-	-	ND (0.16)	ND (4.1)
Methyl acetate	µg/L	-	ND (0.14) J	-	-	ND (0.14)	ND (3.4)
Methyl cyclohexane	µg/L	-	ND (0.26)	-	-	ND (0.26)	ND (6.5)
Methyl Tert Butyl Ether	µg/L	-	ND (0.18)	-	-	ND (0.18)	ND (4.6)
Methylene chloride	µg/L	-	ND (0.15)	-	-	ND (0.15)	ND (3.7)
Volatile Organic Compounds (Cont'd.)							
Styrene	µg/L	-	ND (0.097)	-	-	ND (0.097)	ND (2.4)
Tetrachloroethene	µg/L	-	ND (0.15)	-	-	ND (0.15)	ND (3.7)
Toluene	µg/L	-	ND (0.15)	-	-	ND (0.15)	ND (3.8)
trans-1,2-Dichloroethene	µg/L	-	ND (0.17)	-	-	ND (0.17)	ND (4.2)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-9-15*	*MW-9-70*	*MW-9-70*	*MW-9-70*	*MW-10-14*	*MW-10-40*
	Sample ID:	*GW-15620-070809-DS-020*	*GW-15620-070609-DS-022*	*GW-15620-070809-DS-018*	*GW-15620-070809-DS-022*	*GW-15620-070609-RR-037*	*GW-15620-070609-RR-039*
	Sample Date:	*7/8/2009*	*7/6/2009*	*7/8/2009*	*7/8/2009*	*7/6/2009*	*7/6/2009*
Parameter	*Units*						
trans-1,3-Dichloropropene	µg/L	-	ND (0.15)	-	-	ND (0.15)	ND (3.7)
Trichloroethene	µg/L	-	ND (0.14)	-	-	ND (0.14)	330
Trichlorofluoromethane (CFC-11)	µg/L	-	ND (0.20)	-	-	ND (0.20)	ND (5.0)
Trifluorotrichloroethane (Freon 113)	µg/L	-	ND (0.32)	-	-	ND (0.32)	ND (8.0)
Vinyl chloride	µg/L	-	ND (0.23)	-	-	ND (0.23)	8.5 J
Xylene (total)	µg/L	-	ND (0.49)	-	-	ND (0.49)	ND (12)
Semi-Volatile Organic Compounds							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	-	ND (0.33)	-	-	ND (0.33)	ND (0.36)
2,4,5-Trichlorophenol	µg/L	-	ND (0.15)	-	-	ND (0.14)	ND (0.16)
2,4,6-Trichlorophenol	µg/L	-	ND (0.087)	-	-	ND (0.086)	ND (0.094)
2,4-Dichlorophenol	µg/L	-	ND (0.13)	-	-	ND (0.13)	ND (0.14)
2,4-Dimethylphenol	µg/L	-	ND (0.077)	-	-	ND (0.076)	ND (0.084)
2,4-Dinitrophenol	µg/L	-	ND (5.9)	-	-	ND (5.8)	ND (6.4)
2,4-Dinitrotoluene	µg/L	-	ND (0.16)	-	-	ND (0.16)	ND (0.17)
2,6-Dinitrotoluene	µg/L	-	ND (0.18)	-	-	ND (0.18)	ND (0.20)
2-Chloronaphthalene	µg/L	-	ND (0.15)	-	-	ND (0.14)	ND (0.16)
2-Chlorophenol	µg/L	-	ND (0.20)	-	-	ND (0.20)	ND (0.22)
2-Methylnaphthalene	µg/L	-	ND (0.15)	-	-	ND (0.15)	ND (0.16)
2-Methylphenol	µg/L	-	ND (0.13)	-	-	ND (0.13)	ND (0.15)
2-Nitroaniline	µg/L	-	ND (0.16)	-	-	ND (0.16)	ND (0.17)
2-Nitrophenol	µg/L	-	ND (0.13)	-	-	ND (0.13)	ND (0.15)
3,3'-Dichlorobenzidine	µg/L	-	ND (0.35)	-	-	ND (0.34)	ND (0.38)
3-Nitroaniline	µg/L	-	ND (0.25)	-	-	ND (0.25)	ND (0.27)
4,6-Dinitro-2-methylphenol	µg/L	-	ND (7.5)	-	-	ND (7.4)	ND (8.1)
4-Bromophenyl phenyl ether	µg/L	-	ND (0.18)	-	-	ND (0.18)	ND (0.20)
4-Chloro-3-methylphenol	µg/L	-	ND (0.24)	-	-	ND (0.24)	ND (0.26)
4-Chloroaniline	µg/L	-	ND (1.0)	-	-	ND (1.0)	ND (1.1)
4-Chlorophenyl phenyl ether	µg/L	-	ND (0.10)	-	-	ND (0.099)	ND (0.11)
4-Methylphenol	µg/L	-	ND (0.17)	-	-	ND (0.17)	ND (0.18)
4-Nitroaniline	µg/L	-	ND (0.22)	-	-	ND (0.22)	ND (0.24)
4-Nitrophenol	µg/L	-	ND (6.8)	-	-	ND (6.7)	ND (7.3)
Acenaphthene	µg/L	-	ND (0.14)	-	-	ND (0.14)	ND (0.15)
Acenaphthylene	µg/L	-	ND (0.081)	-	-	ND (0.080)	ND (0.088)
Acetophenone	µg/L	-	ND (0.21)	-	-	ND (0.21)	ND (0.23)
Semi-Volatile Organic Compounds (Cont'd.)							
Aniline	µg/L	-	ND (0.39)	-	-	ND (0.39)	ND (0.42)
Anthracene	µg/L	-	ND (1.0)	-	-	ND (0.99)	ND (1.1)
Atrazine	µg/L	-	ND (0.19)	-	-	ND (0.19)	ND (0.21)
Benzaldehyde	µg/L	-	ND (0.48)	-	-	ND (0.48)	ND (0.52)
Benzo(a)anthracene	µg/L	-	ND (0.17)	-	-	ND (0.17)	ND (0.18)
Benzo(a)pyrene	µg/L	-	ND (0.11)	-	-	ND (0.11)	ND (0.12)
Benzo(b)fluoranthene	µg/L	-	ND (0.16)	-	-	ND (0.15)	ND (0.17)
Benzo(g,h,i)perylene	µg/L	-	ND (0.083)	-	-	ND (0.082)	ND (0.090)
Benzo(k)fluoranthene	µg/L	-	ND (0.16)	-	-	ND (0.16)	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-9-15*	*MW-9-70*	*MW-9-70*	*MW-9-70*	*MW-10-14*	*MW-10-40*
	Sample ID:	*GW-15620-070809-DS-020*	*GW-15620-070609-DS-022*	*GW-15620-070809-DS-018*	*GW-15620-070809-DS-022*	*GW-15620-070609-RR-037*	*GW-15620-070609-RR-039*
	Sample Date:	*7/8/2009*	*7/6/2009*	*7/8/2009*	*7/8/2009*	*7/6/2009*	*7/6/2009*
Parameter	***Units***						
Biphenyl (1,1-Biphenyl)	µg/L	-	ND (0.15)	-	-	ND (0.15)	ND (0.16)
bis(2-Chloroethoxy)methane	µg/L	-	ND (0.13)	-	-	ND (0.13)	ND (0.14)
bis(2-Chloroethyl)ether	µg/L	-	ND (0.25)	-	-	ND (0.25)	ND (0.27)
bis(2-Ethylhexyl)phthalate	µg/L	-	3.7 J	-	-	ND (0.44)	ND (0.48)
Butyl benzylphthalate	µg/L	-	ND (2.9)	-	-	ND (2.9)	ND (3.2)
Caprolactam	µg/L	-	ND (6.9)	-	-	ND (6.9)	ND (7.5)
Carbazole	µg/L	-	ND (0.13)	-	-	ND (0.13)	ND (0.14)
Chrysene	µg/L	-	ND (0.10)	-	-	ND (0.10)	ND (0.11)
Dibenz(a,h)anthracene	µg/L	-	ND (0.12)	-	-	ND (0.12)	ND (0.13)
Dibenzofuran	µg/L	-	ND (0.18)	-	-	ND (0.18)	ND (0.19)
Diethyl phthalate	µg/L	-	0.67 J	-	-	ND (0.43)	ND (0.47)
Dimethyl phthalate	µg/L	-	ND (0.13)	-	-	ND (0.13)	ND (0.15)
Di-n-butylphthalate	µg/L	-	ND (0.29)	-	-	ND (0.28)	ND (0.31)
Di-n-octyl phthalate	µg/L	-	ND (0.15)	-	-	ND (0.15)	ND (0.16)
Fluoranthene	µg/L	-	ND (0.096)	-	-	ND (0.095)	ND (0.10)
Fluorene	µg/L	-	ND (0.095)	-	-	ND (0.094)	ND (0.10)
Hexachlorobenzene	µg/L	-	ND (0.17)	-	-	ND (0.17)	ND (0.19)
Hexachlorobutadiene	µg/L	-	ND (0.12)	-	-	ND (0.12)	ND (0.13)
Hexachlorocyclopentadiene	µg/L	-	ND (0.11)	-	-	ND (0.11)	ND (0.12)
Hexachloroethane	µg/L	-	ND (0.074)	-	-	ND (0.073)	ND (0.080)
Indeno(1,2,3-cd)pyrene	µg/L	-	ND (0.15)	-	-	ND (0.15)	ND (0.17)
Isophorone	µg/L	-	ND (0.28)	-	-	ND (0.27)	ND (0.30)
Naphthalene	µg/L	-	ND (0.27)	-	-	ND (0.26)	ND (0.29)
Nitrobenzene	µg/L	-	ND (0.17)	-	-	ND (0.17)	ND (0.19)
N-Nitrosodi-n-propylamine	µg/L	-	ND (0.37)	-	-	ND (0.37)	ND (0.40)
N-Nitrosodiphenylamine	µg/L	-	ND (0.47)	-	-	ND (0.46)	ND (0.51)
Pentachlorophenol	µg/L	-	ND (1.8)	-	-	ND (1.8)	ND (2.0)
Phenanthrene	µg/L	-	ND (0.27)	-	-	ND (0.27)	ND (0.30)
Phenol	µg/L	-	ND (0.23)	-	-	ND (0.22)	ND (0.25)
Pyrene	µg/L	-	ND (0.11)	-	-	ND (0.11)	ND (0.12)
Metals							
Aluminum	µg/L	ND (25.6)	-	ND (28.2)	ND (35.9)	ND (232)	ND (361)
Aluminum (Dissolved)	µg/L	ND (15.0)	-	ND (14.6)	ND (19.7)	ND (20.6)	ND (76.1)
Antimony	µg/L	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	µg/L	ND (2.7)	-	ND (2.7)	12.8	31.6	23.1
Arsenic (Dissolved)	µg/L	ND (2.7)	-	ND (2.7)	13.9	31.3	21.3
Barium	µg/L	6.4 J	-	6.7 J	17.9 J	16.0 J	5.4 J
Barium (Dissolved)	µg/L	5.8 J	-	5.7 J	17.4 J	14.3 J	ND (2.2)
Beryllium	µg/L	ND (0.23)	-	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	µg/L	ND (0.23)	-	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Cadmium	µg/L	ND (0.13)	-	0.16 J	0.19 J	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	µg/L	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	µg/L	24100	-	24500	52200	25300	8160
Calcium (Dissolved)	µg/L	24300	-	23700	53900	26800	8640

TABLE 3

ANALYTICAL RESULTS SUMMARY
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	Sample Location:	*MW-9-15*	*MW-9-70*	*MW-9-70*	*MW-9-70*	*MW-10-14*	*MW-10-40*
	Sample ID:	*GW-15620-070809-DS-020*	*GW-15620-070609-DS-022*	*GW-15620-070809-DS-018*	*GW-15620-070809-DS-022*	*GW-15620-070609-RR-037*	*GW-15620-070609-RR-039*
	Sample Date:	*7/8/2009*	*7/6/2009*	*7/8/2009*	*7/8/2009*	*7/6/2009*	*7/6/2009*
Parameter	***Units***						
Chromium	µg/L	ND (0.57) J	-	ND (0.57) J	ND (0.57) J	ND (0.57)	ND (2.6)
Chromium Total (Dissolved)	µg/L	ND (0.57) J	-	ND (0.57) J	ND (0.57) J	ND (0.57)	ND (1.2)
Cobalt	µg/L	0.91 J	-	0.93 J	ND (0.40)	ND (0.96)	ND (0.58)
Cobalt (Dissolved)	µg/L	0.49 J	-	0.57 J	ND (0.40)	ND (0.83)	ND (0.51)
Copper	µg/L	ND (2.7)	-	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	µg/L	ND (2.7)	-	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Iron	µg/L	130	-	133	225	5370	1430
Iron (Dissolved)	µg/L	57.7 J	-	56.8 J	ND (11.9)	4790	629
Lead	µg/L	ND (1.3)	-	1.8 J	1.8 J	2.4 J	7.6
Lead (Dissolved)	µg/L	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)	1.4 J
Magnesium	µg/L	6550	-	6680	3490 J	4360 J	1260 J
Magnesium (Dissolved)	µg/L	6690	-	6520	3640 J	4610 J	1270 J
Manganese	µg/L	134	-	133	25.6	1040	683
Manganese (Dissolved)	µg/L	109	-	102	13.3 J	1100	610
Mercury	µg/L	ND (0.038)	-	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Mercury (Dissolved)	µg/L	ND (0.038)	-	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	µg/L	ND (1.6)	-	ND (1.6)	ND (1.6)	1.8 J	2.6 J
Nickel (Dissolved)	µg/L	ND (1.6)	-	ND (1.6)	ND (1.6)	ND (1.6)	1.9 J
Potassium	µg/L	1510 J	-	1520 J	ND (766)	1210 J	1140 J
Potassium (Dissolved)	µg/L	1560 J	-	1520 J	ND (794)	1130 J	1110 J
Selenium	µg/L	ND (3.0) J	-	ND (3.0) J	ND (3.0) J	ND (3.0)	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0) J	-	ND (3.0) J	ND (3.0) J	ND (3.0)	ND (3.0)
Silver	µg/L	ND (0.68)	-	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Silver (Dissolved)	µg/L	ND (0.68)	-	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Metals (Cont'd.)							
Sodium	µg/L	18400	-	18600	10800	9360	66200
Sodium (Dissolved)	µg/L	18600	-	18200	11100	9990	64200
Thallium	µg/L	ND (2.4)	-	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
Thallium (Dissolved)	µg/L	ND (2.4)	-	ND (2.4)	ND (2.6)	ND (2.4)	ND (2.4)
Vanadium	µg/L	ND (1.9)	-	ND (1.9)	ND (1.9)	ND (1.9)	6.2 J
Vanadium (Dissolved)	µg/L	ND (1.9)	-	ND (1.9)	ND (1.9)	ND (1.9)	4.5 J
Zinc	µg/L	ND (12.7)	-	ND (5.0) U	ND (8.7)	8.2 J	8.5 J
Zinc (Dissolved)	µg/L	ND (9.2)	-	ND (5.0) U	ND (10.8)	2.6 J	ND (2.5)
Polychlorinated Biphenyls							
Aroclor-1016 (PCB-1016)	µg/L	-	ND (0.0024)	-	-	ND (0.0024)	ND (0.0024)
Aroclor-1221 (PCB-1221)	µg/L	-	ND (0.0024)	-	-	ND (0.0023)	ND (0.0024)
Aroclor-1232 (PCB-1232)	µg/L	-	ND (0.0028)	-	-	ND (0.0028)	ND (0.0028)
Aroclor-1242 (PCB-1242)	µg/L	-	ND (0.0018)	-	-	ND (0.0017)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	-	ND (0.0022)	-	-	ND (0.0021)	ND (0.0022)
Aroclor-1254 (PCB-1254)	µg/L	-	ND (0.0022)	-	-	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	µg/L	-	ND (0.0013)	-	-	ND (0.0013)	ND (0.0013)
Gases							
Carbon dioxide	µg/L	-	ND (210)	-	-	6300	ND (210)

TABLE 3

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GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-9-15*	*MW-9-70*	*MW-9-70*	*MW-9-70*	*MW-10-14*	*MW-10-40*
	Sample ID:	*GW-15620-070809-DS-020*	*GW-15620-070609-DS-022*	*GW-15620-070809-DS-018*	*GW-15620-070809-DS-022*	*GW-15620-070609-RR-037*	*GW-15620-070609-RR-039*
	Sample Date:	*7/8/2009*	*7/6/2009*	*7/8/2009*	*7/8/2009*	*7/6/2009*	*7/6/2009*
Parameter	***Units***						
General Chemistry							
Alkalinity, Total (as CaCO3)	mg/L	-	65.9	-	-	140	75.8
Ammonia	mg/L	-	0.15	-	-	0.19	0.94
Chloride	mg/L	-	36.2	-	-	8.7	8.4
Dissolved Organic Carbon (DOC), Dissolved	mg/L	-	ND (0.54) U	-	-	2.5	5.5
Nitrate (as N)	mg/L	-	ND (0.0077)	-	-	ND (0.050) U	ND (0.0077)
Nitrite (as N)	mg/L	-	ND (0.064) U	-	-	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	-	51.9	-	-	3.2	12.8

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-11R-14*	*MW-12-19*	*MW-12-D*	*MW-12-I*	*MW-13-68*
	Sample ID:	*GW-15620-072309-RR-087*	*GW-15620-072209-RR-075*	*GW-15620-072209-RR-071*	*GW-15620-072209-RR-073*	*GW-15620-072209-RW-076*
	Sample Date:	*7/23/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*
Parameter	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	ND (0.29)	ND (3.6)	ND (0.29)	ND (360)	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	ND (0.20)	ND (2.5)	ND (0.19)	ND (250)	ND (0.20)
1,1,2-Trichloroethane	µg/L	ND (0.20)	ND (2.5)	ND (4.8)	ND (250)	ND (0.20)
1,1-Dichloroethane	µg/L	ND (0.12)	ND (1.5)	ND (0.12)	ND (150)	ND (0.12)
1,1-Dichloroethene	µg/L	ND (0.30)	ND (3.7)	ND (0.30)	ND (370)	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	ND (0.15)	19	ND (0.15)	ND (190)	ND (0.15) J
1,2,4-Trichlorobenzene	µg/L	ND (0.27)	64	ND (0.27)	ND (340)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (0.14)	ND (1.8)	ND (0.14)	ND (180)	ND (0.14) J
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (0.18)	ND (2.3)	ND (0.18)	ND (230)	ND (0.18)
1,2-Dichlorobenzene	µg/L	2.9	61	ND (0.15)	410 J	ND (0.15)
1,2-Dichloroethane	µg/L	ND (0.21)	ND (2.6)	ND (0.21)	ND (260)	ND (0.21)
1,2-Dichloropropane	µg/L	ND (0.095)	ND (1.2)	ND (2.4)	ND (120)	ND (0.095)
1,3-Dichlorobenzene	µg/L	4.8	31	ND (0.11)	140 J	ND (0.11)
1,4-Dichlorobenzene	µg/L	4.0	88	ND (0.21)	870 J	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (0.55)	ND (6.8)	ND (0.19)	ND (680)	ND (0.55)
2-Hexanone	µg/L	ND (0.16)	ND (2.0)	ND (0.16)	ND (200)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (0.53)	ND (6.6)	ND (0.53)	ND (660)	ND (0.53)
Acetone	µg/L	ND (2.5)	ND (31)	ND (2.5)	ND (3100)	ND (2.5)
Benzene	µg/L	0.22 J	1.8 J	ND (0.11)	ND (130)	ND (0.11)
Bromodichloromethane	µg/L	ND (0.13)	ND (1.6)	ND (0.13)	ND (160)	ND (0.13)
Bromoform	µg/L	ND (0.19)	ND (2.4)	ND (0.19)	ND (240)	ND (0.19) J
Bromomethane (Methyl Bromide)	µg/L	ND (0.31)	ND (3.9) J	ND (0.31) J	ND (390) J	ND (0.31) J
Carbon disulfide	µg/L	ND (0.21) J	ND (2.6)	ND (0.21)	ND (260)	ND (0.21)
Carbon tetrachloride	µg/L	ND (0.14)	ND (1.7)	ND (0.14)	ND (170)	ND (0.14)
Chlorobenzene	µg/L	18	400	ND (0.14)	19000	ND (0.14)
Chloroethane	µg/L	ND (0.21)	ND (2.7)	ND (0.21)	ND (270)	ND (0.21)
Chloroform (Trichloromethane)	µg/L	ND (0.17)	ND (2.1)	ND (0.17)	ND (210)	ND (0.17)
Chloromethane (Methyl Chloride)	µg/L	ND (0.28) J	ND (3.5)	ND (0.28)	ND (350)	ND (0.28)
cis-1,2-Dichloroethene	µg/L	35	ND (3.0)	ND (0.24)	ND (300)	ND (0.24)
cis-1,3-Dichloropropene	µg/L	ND (0.19)	ND (2.3)	ND (0.19)	ND (230)	ND (0.19)
Cyclohexane	µg/L	ND (0.25)	ND (3.2)	ND (0.25)	ND (320)	ND (0.25)
Dibromochloromethane	µg/L	ND (0.14)	ND (1.7)	ND (0.14)	ND (170)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (0.19)	ND (2.4) J	ND (0.19) J	ND (240) J	ND (0.19)
Ethylbenzene	µg/L	ND (0.23)	ND (2.8)	ND (0.23)	ND (280)	ND (0.23)
Isopropylbenzene	µg/L	ND (0.16)	ND (2.0)	ND (0.16)	ND (200)	ND (0.16)
Methyl acetate	µg/L	ND (0.14)	ND (1.7)	ND (0.19)	ND (170)	ND (0.14)
Methyl cyclohexane	µg/L	ND (0.26)	ND (3.3)	ND (0.26)	ND (330)	ND (0.26)
Methyl Tert Butyl Ether	µg/L	ND (0.18)	ND (2.3)	ND (0.18)	ND (230)	0.47 J
Methylene chloride	µg/L	ND (0.15)	ND (1.9)	ND (0.15)	ND (190)	ND (0.15)
Volatile Organic Compounds (Cont'd.)						
Styrene	µg/L	ND (0.097)	ND (1.2)	ND (0.097)	ND (120)	ND (0.097)
Tetrachloroethene	µg/L	ND (0.15)	ND (1.9)	ND (0.15)	ND (190)	ND (0.15)
Toluene	µg/L	ND (0.15)	26	ND (0.15)	220 J	ND (0.15)
trans-1,2-Dichloroethene	µg/L	0.59 J	ND (2.1)	ND (0.17)	ND (210)	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-11R-14*	*MW-12-19*	*MW-12-D*	*MW-12-I*	*MW-13-68*
	Sample ID:	*GW-15620-072309-RR-087*	*GW-15620-072209-RR-075*	*GW-15620-072209-RR-071*	*GW-15620-072209-RR-073*	*GW-15620-072209-RW-076*
	Sample Date:	*7/23/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*
Parameter	***Units***					
trans-1,3-Dichloropropene	µg/L	ND (0.15)	ND (1.8)	ND (0.15)	ND (180)	ND (0.15)
Trichloroethene	µg/L	5.5	ND (1.8)	ND (0.19)	ND (180)	ND (0.20)
Trichlorofluoromethane (CFC-11)	µg/L	ND (0.20)	ND (2.5) J	ND (0.20) J	ND (250) J	ND (0.20)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (0.32)	ND (4.0)	ND (240)	ND (400)	ND (0.32)
Vinyl chloride	µg/L	11	ND (2.8)	ND (0.23)	ND (280)	ND (0.23)
Xylene (total)	µg/L	ND (0.49)	ND (6.1)	ND (0.49)	ND (610)	ND (0.49)
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.36)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.33)
2,4,5-Trichlorophenol	µg/L	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)
2,4,6-Trichlorophenol	µg/L	ND (0.094)	ND (0.085)	ND (0.088)	ND (0.085)	ND (0.085)
2,4-Dichlorophenol	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	1.2 J	ND (0.13)
2,4-Dimethylphenol	µg/L	ND (0.083)	ND (0.076)	ND (0.078)	ND (0.076)	ND (0.076)
2,4-Dinitrophenol	µg/L	ND (6.3)	ND (5.8)	ND (6.0)	ND (5.8)	ND (5.8)
2,4-Dinitrotoluene	µg/L	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	µg/L	ND (0.20)	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.18)
2-Chloronaphthalene	µg/L	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)
2-Chlorophenol	µg/L	ND (0.22)	ND (0.20)	ND (0.20)	9.5	ND (0.20)
2-Methylnaphthalene	µg/L	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
2-Methylphenol	µg/L	ND (0.14)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
2-Nitroaniline	µg/L	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
2-Nitrophenol	µg/L	ND (0.14)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
3,3'-Dichlorobenzidine	µg/L	ND (0.37)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)
3-Nitroaniline	µg/L	ND (0.27)	ND (0.24)	ND (0.25)	ND (0.24)	ND (0.24)
4,6-Dinitro-2-methylphenol	µg/L	ND (8.0)	ND (7.3)	ND (7.6)	ND (7.3)	ND (7.3)
4-Bromophenyl phenyl ether	µg/L	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
4-Chloro-3-methylphenol	µg/L	ND (0.26)	ND (0.24)	ND (0.25)	ND (0.24)	ND (0.24)
4-Chloroaniline	µg/L	ND (1.1)	ND (1.0)	ND (1.1)	4.2 J	ND (1.0)
4-Chlorophenyl phenyl ether	µg/L	ND (0.11)	ND (0.098)	ND (0.10)	ND (0.098)	ND (0.098)
4-Methylphenol	µg/L	ND (0.18)	0.52 J	ND (0.17)	1.1 J	ND (0.17)
4-Nitroaniline	µg/L	ND (0.23)	ND (0.21)	ND (0.22)	ND (0.21)	ND (0.21)
4-Nitrophenol	µg/L	ND (7.2) J	ND (6.6)	ND (6.8)	ND (6.6)	ND (6.6)
Acenaphthene	µg/L	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Acenaphthylene	µg/L	ND (0.087)	ND (0.080)	ND (0.082)	ND (0.080)	ND (0.080)
Acetophenone	µg/L	ND (0.23)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Semi-Volatile Organic Compounds (Cont'd.)						
Aniline	µg/L	ND (0.42)	ND (0.38)	ND (0.40)	2600	ND (0.38)
Anthracene	µg/L	ND (1.1)	ND (0.98)	ND (1.0)	ND (0.98)	ND (0.98)
Atrazine	µg/L	ND (0.21)	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.19)
Benzaldehyde	µg/L	ND (0.52)	ND (0.47)	ND (0.49)	ND (0.47)	ND (0.47)
Benzo(a)anthracene	µg/L	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Benzo(a)pyrene	µg/L	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Benzo(b)fluoranthene	µg/L	ND (0.17)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)
Benzo(g,h,i)perylene	µg/L	ND (0.089)	ND (0.081)	ND (0.084)	ND (0.081)	ND (0.081)
Benzo(k)fluoranthene	µg/L	ND (0.17)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-11R-14*	*MW-12-19*	*MW-12-D*	*MW-12-I*	*MW-13-68*
	Sample ID:	*GW-15620-072309-RR-087*	*GW-15620-072209-RR-075*	*GW-15620-072209-RR-071*	*GW-15620-072209-RR-073*	*GW-15620-072209-RW-076*
	Sample Date:	*7/23/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*
Parameter	*Units*					
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)
bis(2-Chloroethoxy)methane	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
bis(2-Chloroethyl)ether	µg/L	ND (0.27)	ND (0.25)	ND (0.26)	ND (0.25)	ND (0.25)
bis(2-Ethylhexyl)phthalate	µg/L	ND (0.48)	3.9 J	ND (0.45)	ND (0.43)	3.1 J
Butyl benzylphthalate	µg/L	ND (3.2)	ND (2.9)	ND (3.0)	ND (2.9)	ND (2.9)
Caprolactam	µg/L	ND (7.4)	ND (6.8)	ND (7.0)	ND (6.8)	ND (7.0)
Carbazole	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Chrysene	µg/L	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Dibenz(a,h)anthracene	µg/L	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Dibenzofuran	µg/L	ND (0.19)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)
Diethyl phthalate	µg/L	ND (0.46)	ND (0.42)	ND (0.44)	ND (0.42)	ND (0.42)
Dimethyl phthalate	µg/L	ND (0.14)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
Di-n-butylphthalate	µg/L	ND (0.31)	ND (0.28)	ND (0.29)	0.43 J	ND (0.28)
Di-n-octyl phthalate	µg/L	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Fluoranthene	µg/L	ND (0.10)	ND (0.094)	ND (0.097)	ND (0.094)	ND (0.094)
Fluorene	µg/L	ND (0.10)	ND (0.093)	ND (0.096)	ND (0.093)	ND (0.093)
Hexachlorobenzene	µg/L	ND (0.19)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)
Hexachlorobutadiene	µg/L	ND (0.13)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)
Hexachlorocyclopentadiene	µg/L	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Hexachloroethane	µg/L	ND (0.079)	ND (0.072)	ND (0.074)	ND (0.072)	ND (0.072)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.17)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)
Isophorone	µg/L	ND (0.30)	ND (0.27)	ND (0.28)	ND (0.27)	ND (0.27)
Naphthalene	µg/L	ND (0.29)	1.1 J	ND (0.27)	17	ND (0.26)
Nitrobenzene	µg/L	ND (0.19)	4.4	ND (0.17)	1100	ND (0.17)
N-Nitrosodi-n-propylamine	µg/L	ND (0.40)	ND (0.36)	ND (0.37)	ND (0.36)	ND (0.36)
N-Nitrosodiphenylamine	µg/L	ND (0.50)	ND (0.46)	ND (0.47)	ND (0.46)	ND (0.46)
Pentachlorophenol	µg/L	ND (1.9)	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.8)
Phenanthrene	µg/L	ND (0.29)	ND (0.27)	ND (0.28)	ND (0.27)	ND (0.27)
Phenol	µg/L	ND (0.24)	ND (0.22)	ND (0.23)	ND (0.22)	ND (0.22)
Pyrene	µg/L	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.10)
Metals						
Aluminum	µg/L	42.5 J	542	456	ND (50.3)	ND (52.2)
Aluminum (Dissolved)	µg/L	26.2 J	ND (69.9)	ND (38.0)	ND (50.3)	ND (39.3)
Antimony	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	µg/L	6.8 J	6.1 J	3.6 J	7.4 J	4.6 J
Arsenic (Dissolved)	µg/L	7.6 J	5.0 J	4.4 J	6.1 J	3.5 J
Barium	µg/L	40.0 J	26.3 J	146 J	108 J	30.1 J
Barium (Dissolved)	µg/L	38.4 J	21.6 J	142 J	107 J	25.9 J
Beryllium	µg/L	ND (0.23)	ND (0.27)	ND (0.23)	ND (0.23)	ND (0.26)
Beryllium (Dissolved)	µg/L	ND (0.23)	ND (0.32)	ND (0.28)	ND (0.23)	ND (0.23)
Cadmium	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	µg/L	37000	25400	23300	123000	208000
Calcium (Dissolved)	µg/L	37000	24800	24100	122000	215000

TABLE 3

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GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-11R-14*	*MW-12-19*	*MW-12-D*	*MW-12-I*	*MW-13-68*
	Sample ID:	*GW-15620-072309-RR-087*	*GW-15620-072209-RR-075*	*GW-15620-072209-RR-071*	*GW-15620-072209-RR-073*	*GW-15620-072209-RW-076*
	Sample Date:	*7/23/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*
Parameter	***Units***					
Chromium	µg/L	1.4 J	ND (2.3)	ND (0.86)	ND (4.4)	ND (1.2)
Chromium Total (Dissolved)	µg/L	0.98 J	ND (0.75)	ND (1.6)	ND (4.5)	ND (1.0)
Cobalt	µg/L	ND (0.40)	4.6 J	ND (0.40)	ND (0.40)	2.9 J
Cobalt (Dissolved)	µg/L	ND (0.40)	4.5 J	ND (0.40)	ND (0.40)	3.2 J
Copper	µg/L	5.4 J	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	µg/L	3.7 J	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Iron	µg/L	480	6160	791	67300	773
Iron (Dissolved)	µg/L	177	4070	ND (15.8)	66600	202
Lead	µg/L	9.4	3.6	1.7 J	2.0 J	ND (1.3)
Lead (Dissolved)	µg/L	2.6 J	ND (1.5)	ND (1.3)	ND (1.4)	ND (1.3)
Magnesium	µg/L	2520 J	2190 J	4520 J	42400	39000
Magnesium (Dissolved)	µg/L	2550 J	2120 J	4800 J	42500	40200
Manganese	µg/L	689	674	57.0	14300	3210
Manganese (Dissolved)	µg/L	673	652	39.9	14100	3190
Mercury	µg/L	0.13 J	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Mercury (Dissolved)	µg/L	0.049 J	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	µg/L	2.8 J	5.4 J	ND (1.6)	ND (1.6)	ND (1.6)
Nickel (Dissolved)	µg/L	2.8 J	4.5 J	2.1 J	ND (1.6)	ND (1.6)
Potassium	µg/L	4480 J	1800 J	ND (686)	3200 J	2460 J
Potassium (Dissolved)	µg/L	4470 J	1740 J	ND (665)	3320 J	2540 J
Selenium	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	µg/L	ND (0.68)	ND (0.68)	0.81 J	3.7 J	0.87 J
Silver (Dissolved)	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	3.2 J	ND (0.68)
Metals (Cont'd.)						
Sodium	µg/L	28300	4470 J	9870	123000	237000
Sodium (Dissolved)	µg/L	28500	4280 J	10400	125000	246000
Thallium	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	3.0 J	ND (2.4)
Thallium (Dissolved)	µg/L	ND (2.4)	ND (2.4)	3.7 J	ND (2.4)	ND (2.4)
Vanadium	µg/L	5.8 J	ND (1.9)	ND (1.9)	4.9 J	2.3 J
Vanadium (Dissolved)	µg/L	4.3 J	ND (1.9)	ND (1.9)	5.4 J	ND (1.9)
Zinc	µg/L	8.1 J	ND (11.3) U	ND (21.9) U	ND (4.1) U	ND (6.0) U
Zinc (Dissolved)	µg/L	6.3 J	ND (10.2) U	ND (5.4) U	ND (8.2) U	ND (6.2) U
Polychlorinated Biphenyls						
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0025)	ND (0.0024)	ND (0.0026)	ND (0.0025)	ND (0.0024)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0024)	ND (0.0024)	ND (0.0026)	ND (0.0025)	ND (0.0024)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0029)	ND (0.0028)	ND (0.0030)	ND (0.0029)	ND (0.0028)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0018)	0.034	ND (0.0019)	ND (0.0019)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	0.056	ND (0.0022)	ND (0.0024)	ND (0.0023)	ND (0.0022)
Aroclor-1254 (PCB-1254)	µg/L	0.015	ND (0.0022)	ND (0.0024)	ND (0.0023)	ND (0.0022)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0013)	ND (0.0013)	ND (0.0014)	ND (0.0014)	ND (0.0013)
Gases						
Carbon dioxide	µg/L	8400	22000	ND (210)	160000	4500

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-11R-14*	*MW-12-19*	*MW-12-D*	*MW-12-I*	*MW-13-68*
	Sample ID:	*GW-15620-072309-RR-087*	*GW-15620-072209-RR-075*	*GW-15620-072209-RR-071*	*GW-15620-072209-RR-073*	*GW-15620-072209-RW-076*
	Sample Date:	*7/23/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*
Parameter	*Units*					
General Chemistry						
Alkalinity, Total (as CaCO3)	mg/L	132	75.6	79.7	458	155
Ammonia	mg/L	0.75	ND (0.59)	ND (0.52)	8.2	0.66
Chloride	mg/L	27.2 J	3.0	3.1	110	255
Dissolved Organic Carbon (DOC), Dissolved	mg/L	7.1	8.0	ND (0.36)	32.6	2.2
Nitrate (as N)	mg/L	ND (0.0077)	ND (0.0077)	1.4	ND (0.0077)	ND (0.0077)
Nitrite (as N)	mg/L	ND (0.0032)	ND (0.0032)	ND (0.0032)	0.16	0.14
Sulfate	mg/L	4.7	5.6	7.9	105	601

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-14-13*	*MW-15R-D*	*MW-15R-I*	*MW-15R-S*	*MW-16-14*	*MW-16-53*
	Sample ID:	*GW-15620-062509-RR-029*	*GW-15620-061509-RR-019*	*GW-15620-061109-RR-015*	*GW-15620-061109-RR-013*	*GW-15620-072109-RW-44*	*GW-15620-072109-RW-42*
	Sample Date:	*6/25/2009*	*6/15/2009*	*6/11/2009*	*6/11/2009*	*7/21/2009*	*7/21/2009*
Parameter	*Units*						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	ND (0.29)	ND (110)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	ND (0.20)	ND (80)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	µg/L	ND (0.20)	ND (81)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	µg/L	ND (0.12)	ND (47)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
1,1-Dichloroethene	µg/L	ND (0.30)	ND (120)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	ND (0.15)	1200	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
1,2,4-Trichlorobenzene	µg/L	ND (0.27)	6300	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (0.14)	ND (56)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (0.18)	ND (72)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	µg/L	ND (0.15)	1800	0.23 J	ND (0.15)	ND (0.15)	ND (0.15)
1,2-Dichloroethane	µg/L	ND (0.21)	ND (85)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	µg/L	ND (0.095)	ND (38)	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	µg/L	ND (0.11)	210 J	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
1,4-Dichlorobenzene	µg/L	ND (0.21)	ND (82)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (0.55) J	ND (220) J	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)
2-Hexanone	µg/L	ND (0.16) J	ND (64)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (0.53)	ND (210)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Acetone	µg/L	4.7 J	ND (1000)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)
Benzene	µg/L	ND (0.11)	ND (42)	ND (0.11)	ND (0.11)	0.11 J	ND (0.11)
Bromodichloromethane	µg/L	ND (0.13)	ND (52)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Bromoform	µg/L	ND (0.19)	ND (77)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Bromomethane (Methyl Bromide)	µg/L	ND (0.31) J	ND (130)	ND (0.31)	ND (0.31)	ND (0.31) J	ND (0.31) J
Carbon disulfide	µg/L	ND (0.21)	ND (85)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Carbon tetrachloride	µg/L	ND (0.14)	ND (55)	ND (0.14) J	ND (0.14) J	ND (0.14)	ND (0.14)
Chlorobenzene	µg/L	0.74 J	5500	ND (0.14)	ND (0.14)	0.14 J	ND (0.14)
Chloroethane	µg/L	ND (0.21)	ND (86)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	µg/L	ND (0.17)	ND (68)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Chloromethane (Methyl Chloride)	µg/L	ND (0.28)	ND (110)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
cis-1,2-Dichloroethene	µg/L	ND (0.24)	ND (95)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	µg/L	ND (0.19)	ND (75)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Cyclohexane	µg/L	ND (0.25)	ND (100)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Dibromochloromethane	µg/L	ND (0.14)	ND (55)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (0.19)	ND (77)	ND (0.19) J	ND (0.19) J	ND (0.19) J	ND (0.19) J
Ethylbenzene	µg/L	0.78 J	ND (91)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Isopropylbenzene	µg/L	0.42 J	ND (66)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
Methyl acetate	µg/L	ND (0.14)	ND (55)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Methyl cyclohexane	µg/L	0.64 J	ND (100)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	µg/L	ND (0.18)	ND (73)	ND (0.18)	ND (0.18)	1.5	ND (0.18)
Methylene chloride	µg/L	ND (0.15)	ND (180)	ND (0.15)	ND (0.15)	ND (0.15)	0.39 J
Volatile Organic Compounds (Cont'd.)							
Styrene	µg/L	ND (0.097)	ND (39)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)
Tetrachloroethene	µg/L	ND (0.15)	ND (59)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Toluene	µg/L	0.66 J	ND (60)	ND (0.15)	ND (0.15)	1.0	1.2
trans-1,2-Dichloroethene	µg/L	ND (0.17)	ND (68)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-14-13*	*MW-15R-D*	*MW-15R-I*	*MW-15R-S*	*MW-16-14*	*MW-16-53*
	Sample ID:	*GW-15620-062509-RR-029*	*GW-15620-061509-RR-019*	*GW-15620-061109-RR-015*	*GW-15620-061109-RR-013*	*GW-15620-072109-RW-44*	*GW-15620-072109-RW-42*
	Sample Date:	*6/25/2009*	*6/15/2009*	*6/11/2009*	*6/11/2009*	*7/21/2009*	*7/21/2009*
Parameter	*Units*						
trans-1,3-Dichloropropene	µg/L	ND (0.15)	ND (59)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Trichloroethene	µg/L	ND (0.14)	ND (57)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	µg/L	ND (0.20)	ND (80)	ND (0.20)	ND (0.20)	ND (0.20) J	ND (0.20) J
Trifluorotrichloroethane (Freon 113)	µg/L	ND (0.32)	ND (130)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Vinyl chloride	µg/L	ND (0.23)	ND (91)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Xylene (total)	µg/L	3.8	ND (200)	ND (0.49)	ND (0.49)	0.87 J	ND (0.49)
Semi-Volatile Organic Compounds							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.33)	ND (0.38)	ND (0.38)	ND (0.33)	ND (0.33)	ND (0.33)
2,4,5-Trichlorophenol	µg/L	ND (0.14) J	ND (0.17)	ND (0.17)	ND (0.14)	ND (0.15)	ND (0.14)
2,4,6-Trichlorophenol	µg/L	ND (0.085) J	ND (0.099)	ND (0.099)	ND (0.085)	ND (0.087)	ND (0.085)
2,4-Dichlorophenol	µg/L	ND (0.13) J	ND (0.15)	ND (0.15)	ND (0.13)	ND (0.13)	ND (0.13)
2,4-Dimethylphenol	µg/L	ND (0.076) J	ND (0.088)	ND (0.088)	ND (0.076)	ND (0.077)	ND (0.076)
2,4-Dinitrophenol	µg/L	ND (5.8) J	ND (6.7)	ND (6.7)	ND (5.8)	ND (5.9)	ND (5.8)
2,4-Dinitrotoluene	µg/L	ND (0.16)	ND (0.18)	ND (0.18)	ND (0.16)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	µg/L	ND (0.18)	ND (0.21)	ND (0.21)	ND (0.18)	ND (0.18)	ND (0.18)
2-Chloronaphthalene	µg/L	ND (0.14)	ND (0.16)	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.14)
2-Chlorophenol	µg/L	ND (0.20) J	ND (0.23)	ND (0.23)	ND (0.20)	ND (0.20)	ND (0.20)
2-Methylnaphthalene	µg/L	ND (0.15)	ND (0.17)	ND (0.17)	ND (0.15)	ND (0.15)	ND (0.15)
2-Methylphenol	µg/L	ND (0.13) J	ND (0.15)	ND (0.15)	ND (0.13)	ND (0.13)	ND (0.13)
2-Nitroaniline	µg/L	ND (0.16)	ND (0.18)	ND (0.18)	ND (0.16)	ND (0.16)	ND (0.16)
2-Nitrophenol	µg/L	ND (0.13) J	ND (0.15)	ND (0.15)	ND (0.13)	ND (0.13)	ND (0.13)
3,3'-Dichlorobenzidine	µg/L	ND (0.34)	ND (0.39)	ND (0.39)	ND (0.34)	ND (0.35)	ND (0.34)
3-Nitroaniline	µg/L	ND (0.24)	ND (0.28)	ND (0.28)	ND (0.24)	ND (0.25)	ND (0.24)
4,6-Dinitro-2-methylphenol	µg/L	ND (7.3) J	ND (8.5)	ND (8.5)	ND (7.3)	ND (7.5)	ND (7.3)
4-Bromophenyl phenyl ether	µg/L	ND (0.18)	ND (0.20)	ND (0.20)	ND (0.18)	ND (0.18)	ND (0.18)
4-Chloro-3-methylphenol	µg/L	ND (0.24) J	ND (0.28)	ND (0.28)	ND (0.24)	ND (0.24)	ND (0.24)
4-Chloroaniline	µg/L	ND (1.0)	ND (1.2)	ND (1.2)	ND (1.0)	ND (1.0)	ND (1.0)
4-Chlorophenyl phenyl ether	µg/L	ND (0.098)	ND (0.11)	ND (0.11)	ND (0.098)	ND (0.10)	ND (0.098)
4-Methylphenol	µg/L	ND (0.17) J	ND (0.19)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)
4-Nitroaniline	µg/L	ND (0.21)	ND (0.25)	ND (0.25)	ND (0.21)	ND (0.22)	ND (0.21)
4-Nitrophenol	µg/L	ND (6.6) J	ND (7.7)	ND (7.7)	ND (6.6)	ND (6.8)	ND (6.6)
Acenaphthene	µg/L	1.5 J	ND (0.16)	ND (0.16)	ND (0.14)	ND (0.14)	ND (0.14)
Acenaphthylene	µg/L	ND (0.080)	ND (0.092)	ND (0.092)	ND (0.080)	ND (0.081)	ND (0.080)
Acetophenone	µg/L	ND (0.21)	ND (0.24)	ND (0.24)	ND (0.21)	ND (0.21)	ND (0.21)
Semi-Volatile Organic Compounds (Cont'd.)							
Aniline	µg/L	ND (0.38)	220	ND (0.45)	ND (0.38)	ND (0.39)	ND (0.38)
Anthracene	µg/L	ND (0.98)	ND (1.1)	ND (1.1)	ND (0.98)	ND (1.0)	ND (0.98)
Atrazine	µg/L	ND (0.19)	ND (0.22)	ND (0.22)	ND (0.19)	ND (0.19)	ND (0.19)
Benzaldehyde	µg/L	ND (0.47)	ND (0.55)	ND (0.55)	ND (0.47)	ND (0.48)	ND (0.47)
Benzo(a)anthracene	µg/L	ND (0.17)	ND (0.19)	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.17)
Benzo(a)pyrene	µg/L	ND (0.11)	ND (0.13)	ND (0.13)	ND (0.11)	ND (0.11)	ND (0.11)
Benzo(b)fluoranthene	µg/L	ND (0.15)	ND (0.18)	ND (0.18)	ND (0.15)	ND (0.16)	ND (0.15)
Benzo(g,h,i)perylene	µg/L	ND (0.081)	ND (0.094)	ND (0.094)	ND (0.081)	ND (0.083)	ND (0.081)
Benzo(k)fluoranthene	µg/L	ND (0.15)	ND (0.18)	ND (0.18)	ND (0.15)	ND (0.16)	ND (0.15)

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ZENECA, INC.
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	Sample Location:	*MW-14-13*	*MW-15R-D*	*MW-15R-I*	*MW-15R-S*	*MW-16-14*	*MW-16-53*
	Sample ID:	*GW-15620-062509-RR-029*	*GW-15620-061509-RR-019*	*GW-15620-061109-RR-015*	*GW-15620-061109-RR-013*	*GW-15620-072109-RW-44*	*GW-15620-072109-RW-42*
	Sample Date:	*6/25/2009*	*6/15/2009*	*6/11/2009*	*6/11/2009*	*7/21/2009*	*7/21/2009*
Parameter	***Units***						
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.14)	ND (0.17)	ND (0.17)	ND (0.14)	ND (0.15)	ND (0.14)
bis(2-Chloroethoxy)methane	µg/L	ND (0.13)	ND (0.15)	ND (0.15)	ND (0.13)	ND (0.13)	ND (0.13)
bis(2-Chloroethyl)ether	µg/L	ND (0.25)	ND (0.29)	ND (0.29)	ND (0.25)	ND (0.25)	ND (0.25)
bis(2-Ethylhexyl)phthalate	µg/L	ND (0.43)	2.3 J	ND (0.50)	ND (0.43)	4.0 J	ND (0.43)
Butyl benzylphthalate	µg/L	ND (2.9)	ND (3.3)	ND (3.3)	ND (2.9)	ND (2.9)	ND (2.9)
Caprolactam	µg/L	ND (47)	ND (7.9)	ND (7.9)	ND (6.8)	ND (6.9)	ND (6.8)
Carbazole	µg/L	ND (0.13)	ND (0.15)	ND (0.15)	ND (0.13)	ND (0.13)	ND (0.13)
Chrysene	µg/L	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.10)	ND (0.10)	ND (0.10)
Dibenz(a,h)anthracene	µg/L	ND (0.12)	ND (0.14)	ND (0.14)	ND (0.12)	ND (0.12)	ND (0.12)
Dibenzofuran	µg/L	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.17)	ND (0.18)	ND (0.17)
Diethyl phthalate	µg/L	ND (0.42)	ND (0.49)	ND (2.1) U	ND (1.7) U	30	1.6 J
Dimethyl phthalate	µg/L	ND (0.13)	ND (0.15)	ND (0.15)	ND (0.13)	ND (0.13)	ND (0.13)
Di-n-butylphthalate	µg/L	ND (0.28)	ND (0.33)	ND (0.33)	ND (0.28)	ND (0.29)	ND (0.28)
Di-n-octyl phthalate	µg/L	ND (0.15)	ND (0.17)	ND (0.17)	ND (0.15)	ND (0.15)	ND (0.15)
Fluoranthene	µg/L	ND (0.094)	ND (0.11)	ND (0.11)	ND (0.094)	ND (0.096)	ND (0.094)
Fluorene	µg/L	0.64 J	ND (0.11)	ND (0.11)	ND (0.093)	ND (0.095)	ND (0.093)
Hexachlorobenzene	µg/L	ND (0.17)	ND (0.20)	ND (0.20)	ND (0.17)	ND (0.17)	ND (0.17)
Hexachlorobutadiene	µg/L	ND (0.11)	ND (0.13)	ND (0.13)	ND (0.11)	ND (0.12)	ND (0.11)
Hexachlorocyclopentadiene	µg/L	ND (0.11)	ND (0.13)	ND (0.13)	ND (0.11)	ND (0.11)	ND (0.11)
Hexachloroethane	µg/L	ND (0.072)	ND (0.083)	ND (0.083)	ND (0.072)	ND (0.074)	ND (0.072)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.15)	ND (0.18)	ND (0.18)	ND (0.15)	ND (0.15)	ND (0.15)
Isophorone	µg/L	ND (0.27)	ND (0.31)	ND (0.31)	ND (0.27)	ND (0.28)	ND (0.27)
Naphthalene	µg/L	0.62 J	40	ND (0.30)	ND (0.26)	ND (0.27)	ND (0.26)
Nitrobenzene	µg/L	ND (0.17)	16	ND (0.20)	ND (0.17)	ND (0.17)	ND (0.17)
N-Nitrosodi-n-propylamine	µg/L	ND (0.36)	ND (0.42)	ND (0.42)	ND (0.36)	ND (0.37)	ND (0.36)
N-Nitrosodiphenylamine	µg/L	ND (0.46)	ND (0.53)	ND (0.53)	ND (0.46)	ND (0.47)	ND (0.46)
Pentachlorophenol	µg/L	ND (1.8) J	ND (2.0)	ND (2.0)	ND (1.8)	ND (1.8)	ND (1.8)
Phenanthrene	µg/L	0.58 J	ND (0.31)	ND (0.31)	ND (0.27)	ND (0.27)	ND (0.27)
Phenol	µg/L	0.83 J	ND (0.26)	ND (0.26)	ND (0.22)	ND (0.23)	ND (0.22)
Pyrene	µg/L	ND (0.10)	ND (0.12)	ND (0.12)	ND (0.10)	ND (0.11)	ND (0.10)
Metals							
Aluminum	µg/L	601	ND (197)	ND (9.7)	45.3 J	1790	1210
Aluminum (Dissolved)	µg/L	596	ND (56.7)	ND (9.7)	ND (9.7)	ND (25.4)	ND (27.0)
Antimony	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	ND (1.3)	ND (1.3)	5.1 J	2.9 J	ND (1.3)	ND (1.3)
Arsenic	µg/L	3.9 J	ND (2.7)	ND (2.7)	4.1 J	3.2 J	10.7
Arsenic (Dissolved)	µg/L	5.5 J	ND (2.7)	ND (2.7)	ND (2.7)	3.5 J	9.1 J
Barium	µg/L	4.2 J	23.4 J	4.0 J	17.7 J	85.5 J	59.1 J
Barium (Dissolved)	µg/L	4.6 J	22.2 J	4.1 J	18.5 J	76.5 J	47.9 J
Beryllium	µg/L	ND (0.23)	ND (0.63)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	µg/L	ND (0.23)	ND (0.51)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Cadmium	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.17)	ND (0.13)
Cadmium (Dissolved)	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	µg/L	36100	42200	16500	26200	40700	51700
Calcium (Dissolved)	µg/L	38000	42500	16700	27200	38200	53700

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-14-13*	*MW-15R-D*	*MW-15R-I*	*MW-15R-S*	*MW-16-14*	*MW-16-53*
	Sample ID:	*GW-15620-062509-RR-029*	*GW-15620-061509-RR-019*	*GW-15620-061109-RR-015*	*GW-15620-061109-RR-013*	*GW-15620-072109-RW-44*	*GW-15620-072109-RW-42*
	Sample Date:	*6/25/2009*	*6/15/2009*	*6/11/2009*	*6/11/2009*	*7/21/2009*	*7/21/2009*
Parameter	***Units***						
Chromium	µg/L	ND (0.57)	1.2 J	ND (0.57)	0.59 J	ND (4.0)	ND (2.3)
Chromium Total (Dissolved)	µg/L	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	2.5 J	ND (0.57)
Cobalt	µg/L	ND (0.40)	ND (0.40)	6.5 J	1.3 J	ND (1.4)	ND (1.9)
Cobalt (Dissolved)	µg/L	ND (0.40)	ND (0.40)	6.4 J	1.0 J	ND (1.1)	ND (0.40)
Copper	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	5.1 J	ND (2.7)	3.3 J
Copper (Dissolved)	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	4.2 J	ND (2.7)	ND (2.7)
Iron	µg/L	50.1 J	790	ND (11.9)	106	31900	1230
Iron (Dissolved)	µg/L	ND (11.9)	484	ND (11.9)	44.9 J	28500	50.4 J
Lead	µg/L	ND (1.3)	1.8 J	ND (1.3)	ND (1.3)	8.2	ND (3.8)
Lead (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	1.4 J	1.5 J
Magnesium	µg/L	78.1 J	6900	2970 J	1720 J	13600	2380 J
Magnesium (Dissolved)	µg/L	86.8 J	7050	3050 J	1710 J	13200	2250 J
Manganese	µg/L	2.2 J	585	929	58.3	1750	114
Manganese (Dissolved)	µg/L	1.5 J	559	915	49.5	1660	41.0
Mercury	µg/L	0.26	ND (0.038)	ND (0.038)	ND (0.038)	0.041 J	0.043 J
Mercury (Dissolved)	µg/L	0.24	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	µg/L	2.1 J	3.1 J	4.0 J	1.8 J	2.3 J	5.0 J
Nickel (Dissolved)	µg/L	2.0 J	2.6 J	4.5 J	1.7 J	2.2 J	2.1 J
Potassium	µg/L	6980	ND (1650)	1290 J	2210 J	8520	2700 J
Potassium (Dissolved)	µg/L	7330	1550 J	1460 J	2340 J	7780	2240 J
Selenium	µg/L	ND (3.0) J	ND (3.0)	3.6 J	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0) J	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	µg/L	ND (0.68)	2.1 J	ND (0.68)	ND (0.68)	ND (0.68)	3.7 J
Silver (Dissolved)	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Metals (Cont'd.)							
Sodium	µg/L	11400	15700	8770	6980	458000	26800
Sodium (Dissolved)	µg/L	11900	15800	9090	7060	461000	27800
Thallium	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	2.6 J	ND (2.4)
Thallium (Dissolved)	µg/L	ND (2.4)	ND (2.4)	3.3 J	ND (2.4)	2.9 J	ND (2.4)
Vanadium	µg/L	28.8 J	2.5 J	ND (1.9)	ND (1.9)	3.0 J	ND (1.9)
Vanadium (Dissolved)	µg/L	29.2 J	ND (1.9)	ND (1.9)	2.2 J	ND (1.9)	ND (1.9)
Zinc	µg/L	ND (2.5)	ND (8.1)	ND (8.9)	149	38.7	38.5
Zinc (Dissolved)	µg/L	ND (2.5)	ND (3.4)	9.4 J	156	4.2 J	16.7 J
Polychlorinated Biphenyls							
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0025)	ND (0.0024)	ND (0.0025)	ND (0.0025)	ND (0.0024)	ND (0.0024)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0025)	ND (0.0024)	ND (0.0024)	ND (0.0025)	ND (0.0023)	ND (0.0024)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0029)	0.12	ND (0.0028)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0019)	ND (0.0018)	ND (0.0018)	ND (0.0019)	ND (0.0017)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	ND (0.0023)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0021)	0.018
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0023)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0014)	ND (0.0013)	ND (0.0013)	ND (0.0014)	ND (0.0013)	ND (0.0013)
Gases							
Carbon dioxide	µg/L	ND (210)	2700	19000	9600	37000	ND (210)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-14-13*	*MW-15R-D*	*MW-15R-I*	*MW-15R-S*	*MW-16-14*	*MW-16-53*
	Sample ID:	*GW-15620-062509-RR-029*	*GW-15620-061509-RR-019*	*GW-15620-061109-RR-015*	*GW-15620-061109-RR-013*	*GW-15620-072109-RW-44*	*GW-15620-072109-RW-42*
	Sample Date:	*6/25/2009*	*6/15/2009*	*6/11/2009*	*6/11/2009*	*7/21/2009*	*7/21/2009*
Parameter	*Units*						
General Chemistry							
Alkalinity, Total (as CaCO3)	mg/L	98.1	84.1	23.9	74.4	226	125
Ammonia	mg/L	1.6	0.32	0.19	0.18	4.0	0.14
Chloride	mg/L	2.1	25.7	20.9	3.9	639	33.4
Dissolved Organic Carbon (DOC), Dissolved	mg/L	4.0	2.1	1.1	5.1	10.1	0.84 J
Nitrate (as N)	mg/L	0.74	ND (0.0077)	1.8	ND (0.0077)	ND (0.0077)	0.52
Nitrite (as N)	mg/L	0.043 J	0.079	ND (0.0032)	ND (0.0032)	0.26	ND (0.0032)
Sulfate	mg/L	9.2	52.0	17.0	12.8	1.4	19.7

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-17-66*	*MW-18-15*	*MW-18-15*	*MW-18-39*	*MW-18-39*	*MW-20-15*
	Sample ID:	*GW-15620-072309-RW-80*	*GW-15620-070809-DS-030*	*GW-15620-070909-DS-030*	*GW-15620-070809-DS-032*	*GW-15620-070909-DS-032*	*GW-15620-070809-RR-051*
	Sample Date:	*7/23/2009*	*7/8/2009*	*7/9/2009*	*7/8/2009*	*7/9/2009*	*7/8/2009*
Parameter	*Units*						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	ND (0.29)	ND (0.29)	-	ND (0.29)	-	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	ND (0.20)	ND (0.20)	-	ND (0.20)	-	ND (0.20)
1,1,2-Trichloroethane	µg/L	ND (0.20)	ND (0.20)	-	ND (0.20)	-	ND (0.20)
1,1-Dichloroethane	µg/L	ND (0.12)	ND (0.12)	-	ND (0.12)	-	ND (0.12)
1,1-Dichloroethene	µg/L	ND (0.30)	ND (0.30)	-	ND (0.30)	-	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	ND (0.15)	ND (0.15)	-	ND (0.15)	-	ND (0.15)
1,2,4-Trichlorobenzene	µg/L	0.36 J	ND (0.27)	-	ND (0.27)	-	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (0.14)	ND (0.14)	-	ND (0.14)	-	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (0.18)	ND (0.18)	-	ND (0.18)	-	ND (0.18)
1,2-Dichlorobenzene	µg/L	1.6	0.20 J	-	ND (0.15)	-	ND (0.15)
1,2-Dichloroethane	µg/L	ND (0.21)	ND (0.21)	-	ND (0.21)	-	ND (0.21)
1,2-Dichloropropane	µg/L	ND (0.095)	ND (0.095)	-	ND (0.095)	-	ND (0.095)
1,3-Dichlorobenzene	µg/L	1.9	ND (0.11)	-	ND (0.11)	-	ND (0.11)
1,4-Dichlorobenzene	µg/L	6.8	ND (0.21)	-	ND (0.21)	-	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (0.55)	ND (0.55)	-	ND (0.55)	-	ND (0.55)
2-Hexanone	µg/L	ND (0.16)	ND (0.16)	-	ND (0.16)	-	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (0.53)	ND (0.53)	-	ND (0.53)	-	ND (0.53)
Acetone	µg/L	ND (2.5)	ND (2.5)	-	ND (2.5)	-	ND (2.5)
Benzene	µg/L	0.53 J	ND (0.11)	-	ND (0.11)	-	0.11 J
Bromodichloromethane	µg/L	ND (0.13)	ND (0.13)	-	ND (0.13)	-	4.2
Bromoform	µg/L	ND (0.19)	ND (0.19)	-	ND (0.19)	-	ND (0.19)
Bromomethane (Methyl Bromide)	µg/L	ND (0.31)	ND (0.31)	-	ND (0.31)	-	ND (0.31)
Carbon disulfide	µg/L	ND (0.21)	ND (0.21)	-	ND (0.21)	-	ND (0.21)
Carbon tetrachloride	µg/L	ND (0.14)	ND (0.14)	-	ND (0.14)	-	ND (0.14)
Chlorobenzene	µg/L	41	0.15 J	-	ND (0.14)	-	0.17 J
Chloroethane	µg/L	ND (0.21)	ND (0.21)	-	ND (0.21)	-	ND (0.21)
Chloroform (Trichloromethane)	µg/L	ND (0.17)	ND (0.17)	-	2.6	-	23
Chloromethane (Methyl Chloride)	µg/L	ND (0.28)	ND (0.28)	-	ND (0.28)	-	ND (0.28)
cis-1,2-Dichloroethene	µg/L	ND (0.24)	ND (0.24)	-	ND (0.24)	-	ND (0.24)
cis-1,3-Dichloropropene	µg/L	ND (0.19)	ND (0.19)	-	ND (0.19)	-	ND (0.19)
Cyclohexane	µg/L	ND (0.25)	ND (0.25)	-	ND (0.25)	-	ND (0.25)
Dibromochloromethane	µg/L	ND (0.14)	ND (0.14)	-	ND (0.14)	-	0.39 J
Dichlorodifluoromethane (CFC-12)	µg/L	ND (0.19)	ND (0.19) J	-	ND (0.19) J	-	ND (0.19) J
Ethylbenzene	µg/L	ND (0.23)	ND (0.23)	-	ND (0.23)	-	ND (0.23)
Isopropylbenzene	µg/L	ND (0.16)	ND (0.16)	-	ND (0.16)	-	ND (0.16)
Methyl acetate	µg/L	ND (0.14)	ND (0.14)	-	ND (0.14)	-	ND (0.14)
Methyl cyclohexane	µg/L	ND (0.26)	ND (0.26)	-	ND (0.26)	-	ND (0.26)
Methyl Tert Butyl Ether	µg/L	ND (0.18)	ND (0.18)	-	ND (0.18)	-	ND (0.18)
Methylene chloride	µg/L	ND (0.15)	ND (0.15)	-	ND (0.15)	-	ND (0.15)
Volatile Organic Compounds (Cont'd.)							
Styrene	µg/L	ND (0.097)	ND (0.097)	-	ND (0.097)	-	ND (0.097)
Tetrachloroethene	µg/L	ND (0.15)	ND (0.15)	-	ND (0.15)	-	ND (0.15)
Toluene	µg/L	0.35 J	ND (0.15)	-	ND (0.15)	-	0.25 J
trans-1,2-Dichloroethene	µg/L	ND (0.17)	ND (0.17)	-	ND (0.17)	-	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-17-66*	*MW-18-15*	*MW-18-15*	*MW-18-39*	*MW-18-39*	*MW-20-15*
	Sample ID:	*GW-15620-072309-RW-80*	*GW-15620-070809-DS-030*	*GW-15620-070909-DS-030*	*GW-15620-070809-DS-032*	*GW-15620-070909-DS-032*	*GW-15620-070809-RR-051*
	Sample Date:	*7/23/2009*	*7/8/2009*	*7/9/2009*	*7/8/2009*	*7/9/2009*	*7/8/2009*
Parameter	*Units*						
trans-1,3-Dichloropropene	µg/L	ND (0.15)	ND (0.15)	-	ND (0.15)	-	ND (0.15)
Trichloroethene	µg/L	ND (0.14)	ND (0.14)	-	ND (0.14)	-	ND (0.14)
Trichlorofluoromethane (CFC-11)	µg/L	ND (0.20)	ND (0.20)	-	ND (0.20)	-	ND (0.20)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (0.32)	ND (0.32)	-	ND (0.32)	-	ND (0.32)
Vinyl chloride	µg/L	ND (0.23)	ND (0.23)	-	ND (0.23)	-	ND (0.23)
Xylene (total)	µg/L	ND (0.49)	ND (0.49)	-	ND (0.49)	-	ND (0.49)
Semi-Volatile Organic Compounds							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.33)	ND (0.33)	-	ND (0.34)	-	ND (0.36)
2,4,5-Trichlorophenol	µg/L	ND (0.14)	ND (0.14)	-	ND (0.15)	-	ND (0.16)
2,4,6-Trichlorophenol	µg/L	ND (0.085)	ND (0.085)	-	ND (0.088)	-	ND (0.094)
2,4-Dichlorophenol	µg/L	ND (0.13)	ND (0.13)	-	ND (0.13)	-	ND (0.14)
2,4-Dimethylphenol	µg/L	ND (0.076)	ND (0.076)	-	ND (0.078)	-	ND (0.083)
2,4-Dinitrophenol	µg/L	ND (5.8)	ND (5.8)	-	ND (6.0)	-	ND (6.3)
2,4-Dinitrotoluene	µg/L	ND (0.16)	ND (0.16)	-	ND (0.16)	-	ND (0.17)
2,6-Dinitrotoluene	µg/L	ND (0.18)	ND (0.18)	-	ND (0.19)	-	ND (0.20)
2-Chloronaphthalene	µg/L	ND (0.14)	ND (0.14)	-	ND (0.15)	-	ND (0.16)
2-Chlorophenol	µg/L	ND (0.20)	ND (0.20)	-	ND (0.20)	-	ND (0.22)
2-Methylnaphthalene	µg/L	ND (0.15)	ND (0.15)	-	ND (0.15)	-	ND (0.16)
2-Methylphenol	µg/L	ND (0.13)	ND (0.13)	-	ND (0.14)	-	ND (0.14)
2-Nitroaniline	µg/L	ND (0.16)	ND (0.16)	-	ND (0.16)	-	ND (0.17)
2-Nitrophenol	µg/L	ND (0.13)	ND (0.13)	-	ND (0.14)	-	ND (0.14)
3,3'-Dichlorobenzidine	µg/L	ND (0.34)	ND (0.34)	-	ND (0.35)	-	ND (0.37)
3-Nitroaniline	µg/L	ND (0.24)	ND (0.24)	-	ND (0.25)	-	ND (0.27)
4,6-Dinitro-2-methylphenol	µg/L	ND (7.3)	ND (7.3)	-	ND (7.6)	-	ND (8.0)
4-Bromophenyl phenyl ether	µg/L	ND (0.18)	ND (0.18)	-	ND (0.18)	-	ND (0.19)
4-Chloro-3-methylphenol	µg/L	ND (0.24)	ND (0.24)	-	ND (0.25)	-	ND (0.26)
4-Chloroaniline	µg/L	ND (1.0)	ND (1.0)	-	ND (1.1)	-	ND (1.1)
4-Chlorophenyl phenyl ether	µg/L	ND (0.098)	ND (0.098)	-	ND (0.10)	-	ND (0.11)
4-Methylphenol	µg/L	ND (0.17)	ND (0.17)	-	ND (0.17)	-	ND (0.18)
4-Nitroaniline	µg/L	ND (0.21)	ND (0.21)	-	ND (0.22)	-	ND (0.23)
4-Nitrophenol	µg/L	ND (6.6)	ND (6.6)	-	ND (6.8)	-	ND (7.2)
Acenaphthene	µg/L	ND (0.14)	ND (0.14)	-	ND (0.14)	-	ND (0.15)
Acenaphthylene	µg/L	ND (0.080)	ND (0.080)	-	ND (0.082)	-	ND (0.087)
Acetophenone	µg/L	ND (0.21)	ND (0.21)	-	ND (0.21)	-	ND (0.23)
Semi-Volatile Organic Compounds (Cont'd.)							
Aniline	µg/L	ND (0.38)	ND (0.38)	-	ND (0.40)	-	ND (0.42)
Anthracene	µg/L	ND (0.98)	ND (0.98)	-	ND (1.0)	-	ND (1.1)
Atrazine	µg/L	ND (0.19)	ND (0.19)	-	ND (0.20)	-	ND (0.21)
Benzaldehyde	µg/L	ND (0.47)	ND (0.47)	-	ND (0.49)	-	ND (0.52)
Benzo(a)anthracene	µg/L	ND (0.17)	ND (0.17)	-	ND (0.17)	-	ND (0.18)
Benzo(a)pyrene	µg/L	ND (0.11)	ND (0.11)	-	ND (0.11)	-	ND (0.12)
Benzo(b)fluoranthene	µg/L	ND (0.15)	ND (0.15)	-	0.48 J	-	ND (0.17)
Benzo(g,h,i)perylene	µg/L	ND (0.081)	ND (0.081)	-	ND (0.084)	-	ND (0.089)
Benzo(k)fluoranthene	µg/L	ND (0.15)	ND (0.15)	-	ND (0.16)	-	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-17-66*	*MW-18-15*	*MW-18-15*	*MW-18-39*	*MW-18-39*	*MW-20-15*
	Sample ID:	*GW-15620-072309-RW-80*	*GW-15620-070809-DS-030*	*GW-15620-070909-DS-030*	*GW-15620-070809-DS-032*	*GW-15620-070909-DS-032*	*GW-15620-070809-RR-051*
	Sample Date:	*7/23/2009*	*7/8/2009*	*7/9/2009*	*7/8/2009*	*7/9/2009*	*7/8/2009*
Parameter	***Units***						
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.14)	ND (0.14)	-	ND (0.15)	-	ND (0.16)
bis(2-Chloroethoxy)methane	µg/L	ND (0.13)	ND (0.13)	-	ND (0.13)	-	ND (0.14)
bis(2-Chloroethyl)ether	µg/L	ND (0.25)	ND (0.25)	-	ND (0.26)	-	ND (0.27)
bis(2-Ethylhexyl)phthalate	µg/L	ND (0.43)	ND (0.43)	-	ND (0.45)	-	ND (0.48)
Butyl benzylphthalate	µg/L	ND (2.9)	ND (2.9)	-	ND (3.0)	-	ND (3.2)
Caprolactam	µg/L	7.0 J	ND (6.8)	-	ND (7.0)	-	ND (7.4)
Carbazole	µg/L	ND (0.13)	ND (0.13)	-	ND (0.13)	-	ND (0.14)
Chrysene	µg/L	ND (0.10)	ND (0.10)	-	ND (0.10)	-	ND (0.11)
Dibenz(a,h)anthracene	µg/L	ND (0.12)	ND (0.12)	-	ND (0.12)	-	ND (0.13)
Dibenzofuran	µg/L	ND (0.17)	ND (0.17)	-	ND (0.18)	-	ND (0.19)
Diethyl phthalate	µg/L	ND (0.42)	ND (0.42)	-	ND (0.44)	-	ND (0.46)
Dimethyl phthalate	µg/L	ND (0.13)	ND (0.13)	-	ND (0.14)	-	ND (0.14)
Di-n-butylphthalate	µg/L	ND (0.28)	ND (0.28)	-	ND (0.29)	-	ND (0.31)
Di-n-octyl phthalate	µg/L	ND (0.15)	ND (0.15)	-	ND (0.15)	-	ND (0.16)
Fluoranthene	µg/L	ND (0.094)	ND (0.094)	-	0.78 J	-	ND (0.10)
Fluorene	µg/L	ND (0.093)	ND (0.093)	-	ND (0.096)	-	ND (0.10)
Hexachlorobenzene	µg/L	ND (0.17)	ND (0.17)	-	ND (0.18)	-	ND (0.19)
Hexachlorobutadiene	µg/L	ND (0.11)	ND (0.11)	-	ND (0.12)	-	ND (0.13)
Hexachlorocyclopentadiene	µg/L	ND (0.11)	ND (0.11)	-	ND (0.11)	-	ND (0.12)
Hexachloroethane	µg/L	ND (0.072)	ND (0.072)	-	ND (0.074)	-	ND (0.079)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.15)	ND (0.15)	-	ND (0.16)	-	ND (0.17)
Isophorone	µg/L	ND (0.27)	ND (0.27)	-	ND (0.28)	-	ND (0.30)
Naphthalene	µg/L	ND (0.26)	ND (0.26)	-	ND (0.27)	-	ND (0.29)
Nitrobenzene	µg/L	ND (0.17)	ND (0.17)	-	ND (0.17)	-	ND (0.19)
N-Nitrosodi-n-propylamine	µg/L	ND (0.36)	ND (0.36)	-	ND (0.37)	-	ND (0.40)
N-Nitrosodiphenylamine	µg/L	ND (0.46)	ND (0.46)	-	ND (0.47)	-	ND (0.50)
Pentachlorophenol	µg/L	ND (1.8)	ND (1.8)	-	ND (1.8)	-	ND (1.9)
Phenanthrene	µg/L	ND (0.27)	ND (0.27)	-	0.46 J	-	ND (0.29)
Phenol	µg/L	ND (0.22)	ND (0.22)	-	ND (0.23)	-	ND (0.24)
Pyrene	µg/L	ND (0.10)	ND (0.10)	-	0.63 J	-	ND (0.11)
Metals							
Aluminum	µg/L	45.8 J	ND (55.5)	-	515	-	166 J
Aluminum (Dissolved)	µg/L	43.3 J	ND (18.0)	-	ND (22.2)	-	ND (29.9)
Antimony	µg/L	ND (1.3)	ND (1.3)	-	ND (1.3)	-	ND (1.3)
Antimony (Dissolved)	µg/L	ND (1.3)	ND (1.3)	-	ND (1.3)	-	ND (1.3)
Arsenic	µg/L	5.1 J	ND (2.7)	-	ND (2.7)	-	ND (2.7)
Arsenic (Dissolved)	µg/L	6.8 J	ND (2.7)	-	ND (2.7)	-	ND (2.7)
Barium	µg/L	21.9 J	9.8 J	-	19.6 J	-	68.8 J
Barium (Dissolved)	µg/L	21.8 J	8.9 J	-	13.5 J	-	71.2 J
Beryllium	µg/L	ND (0.23)	ND (0.23)	-	ND (0.23)	-	ND (0.23)
Beryllium (Dissolved)	µg/L	ND (0.23)	ND (0.23)	-	ND (0.23)	-	ND (0.23)
Cadmium	µg/L	ND (0.13)	0.19 J	-	1.2 J	-	0.19 J
Cadmium (Dissolved)	µg/L	ND (0.13)	ND (0.13)	-	0.36 J	-	0.14 J
Calcium	µg/L	166000	9480	-	21000 J	-	17700
Calcium (Dissolved)	µg/L	167000	9150	-	28300 J	-	17800

TABLE 3

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	Sample Location:	*MW-17-66*	*MW-18-15*	*MW-18-15*	*MW-18-39*	*MW-18-39*	*MW-20-15*
	Sample ID:	*GW-15620-072309-RW-80*	*GW-15620-070809-DS-030*	*GW-15620-070909-DS-030*	*GW-15620-070809-DS-032*	*GW-15620-070909-DS-032*	*GW-15620-070809-RR-051*
	Sample Date:	*7/23/2009*	*7/8/2009*	*7/9/2009*	*7/8/2009*	*7/9/2009*	*7/8/2009*
Parameter	***Units***						
Chromium	µg/L	ND (0.57)	ND (0.57) J	-	ND (0.57) J	-	ND (4.7) J
Chromium Total (Dissolved)	µg/L	1.2 J	ND (0.57) J	-	ND (0.57) J	-	ND (4.0) J
Cobalt	µg/L	ND (0.40)	ND (0.40)	-	4.4 J	-	ND (0.40)
Cobalt (Dissolved)	µg/L	ND (0.40)	ND (0.40)	-	3.0 J	-	ND (0.40)
Copper	µg/L	ND (2.7)	ND (2.7)	-	3.3 J	-	ND (2.7)
Copper (Dissolved)	µg/L	ND (2.7)	ND (2.7)	-	ND (2.7)	-	ND (2.7)
Iron	µg/L	229	26.9 J	-	619	-	119
Iron (Dissolved)	µg/L	91.1 J	ND (11.9)	-	ND (11.9)	-	30.4 J
Lead	µg/L	ND (1.3)	ND (1.3)	-	5.6	-	ND (1.3)
Lead (Dissolved)	µg/L	ND (1.3)	ND (1.3)	-	ND (1.3)	-	ND (1.3)
Magnesium	µg/L	31000	1110 J	-	33600	-	2800 J
Magnesium (Dissolved)	µg/L	31400	1060 J	-	45600	-	2810 J
Manganese	µg/L	331	3.0 J	-	167	-	15.8
Manganese (Dissolved)	µg/L	321	1.0 J	-	168	-	4.7 J
Mercury	µg/L	ND (0.038)	ND (0.038)	-	ND (0.038)	-	0.052 J
Mercury (Dissolved)	µg/L	ND (0.038)	ND (0.038)	-	ND (0.038)	-	ND (0.038)
Nickel	µg/L	ND (1.6)	ND (1.6)	-	4.1 J	-	4.0 J
Nickel (Dissolved)	µg/L	ND (1.6)	ND (1.6)	-	2.8 J	-	4.4 J
Potassium	µg/L	3910 J	1860 J	-	14700	-	3530 J
Potassium (Dissolved)	µg/L	3800 J	1800 J	-	16700	-	3640 J
Selenium	µg/L	ND (3.0)	ND (3.0) J	-	ND (3.0) J	-	ND (3.0) J
Selenium (Dissolved)	µg/L	4.0 J	ND (3.0) J	-	ND (3.0) J	-	ND (3.0) J
Silver	µg/L	ND (0.68)	ND (0.68)	-	1.4 J	-	ND (0.68)
Silver (Dissolved)	µg/L	ND (0.68)	ND (0.68)	-	ND (0.68)	-	ND (0.68)
Metals (Cont'd.)							
Sodium	µg/L	288000	5270	-	396000	-	99800
Sodium (Dissolved)	µg/L	290000	5020	-	450000	-	105000
Thallium	µg/L	ND (2.4)	ND (2.4)	-	ND (2.4)	-	ND (2.4)
Thallium (Dissolved)	µg/L	ND (2.4)	ND (2.4)	-	ND (2.4)	-	ND (5.1)
Vanadium	µg/L	ND (1.9)	ND (1.9)	-	2.4 J	-	ND (1.9)
Vanadium (Dissolved)	µg/L	ND (1.9)	ND (1.9)	-	ND (1.9)	-	ND (1.9)
Zinc	µg/L	2.8 J	ND (4.2)	-	71.2	-	ND (8.3)
Zinc (Dissolved)	µg/L	ND (2.5)	ND (7.9)	-	70.5	-	ND (6.5)
Polychlorinated Biphenyls							
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0024)	ND (0.0024)	-	ND (0.0024)	-	ND (0.0025)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0024)	ND (0.0023)	-	ND (0.0024)	-	ND (0.0025)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0028)	ND (0.0028)	-	ND (0.0028)	-	ND (0.0029)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0018)	ND (0.0017)	-	ND (0.0018)	-	ND (0.0019)
Aroclor-1248 (PCB-1248)	µg/L	ND (0.0022)	ND (0.0021)	-	ND (0.0022)	-	ND (0.0023)
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0022)	ND (0.0022)	-	ND (0.0022)	-	ND (0.0023)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0013)	ND (0.0013)	-	ND (0.0013)	-	ND (0.0014)
Gases							
Carbon dioxide	µg/L	1700	6700	-	6400	-	7500

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	Sample Location:	*MW-17-66*	*MW-18-15*	*MW-18-15*	*MW-18-39*	*MW-18-39*	*MW-20-15*
	Sample ID:	*GW-15620-072309-RW-80*	*GW-15620-070809-DS-030*	*GW-15620-070909-DS-030*	*GW-15620-070809-DS-032*	*GW-15620-070909-DS-032*	*GW-15620-070809-RR-051*
	Sample Date:	*7/23/2009*	*7/8/2009*	*7/9/2009*	*7/8/2009*	*7/9/2009*	*7/8/2009*
Parameter	*Units*						
General Chemistry							
Alkalinity, Total (as CaCO3)	mg/L	151	-	13.8	-	70.6	-
Ammonia	mg/L	0.28	0.10	-	0.27	-	0.16
Chloride	mg/L	442 J	-	12.7	-	2570	-
Dissolved Organic Carbon (DOC), Dissolved	mg/L	1.6	1.4	-	1.9	-	1.7
Nitrate (as N)	mg/L	ND (0.0077)	-	0.64	-	0.75	-
Nitrite (as N)	mg/L	0.20	-	ND (0.0032)	-	ND (0.0032)	-
Sulfate	mg/L	329	-	4.2	-	333	-

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	Sample Location:	*MW-20-15*	*MW-20-40*	*MW-22-D*	*MW-22-S*	*MW-2-34*
	Sample ID:	*GW-15620-070909-RR-051*	*GW-15620-070909-RR-057*	*GW-15620-071009-DS-036*	*GW-15620-070909-DS-034*	*GW-15620-061809-MM-012*
	Sample Date:	*7/9/2009*	*7/9/2009*	*7/10/2009*	*7/9/2009*	*6/18/2009*
Parameter	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	-	ND (0.29)	ND (0.29)	ND (0.57)	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	-	ND (0.20)	ND (0.20)	ND (0.40)	ND (0.20)
1,1,2-Trichloroethane	µg/L	-	ND (0.20)	ND (0.20)	ND (0.40)	ND (0.20)
1,1-Dichloroethane	µg/L	-	ND (0.12)	ND (0.12)	ND (0.23)	ND (0.12)
1,1-Dichloroethene	µg/L	-	ND (0.30)	ND (0.30)	ND (0.59)	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	-	ND (0.15)	0.19 J	ND (0.31)	0.17 J
1,2,4-Trichlorobenzene	µg/L	-	ND (0.27)	ND (0.40)	ND (0.54)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	ND (0.14)	ND (0.14)	ND (0.28)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	-	ND (0.18)	ND (0.18)	ND (0.36)	ND (0.18)
1,2-Dichlorobenzene	µg/L	-	ND (0.15)	ND (0.15)	ND (0.30)	ND (0.15)
1,2-Dichloroethane	µg/L	-	ND (0.21)	ND (0.21)	ND (0.42)	ND (0.21)
1,2-Dichloropropane	µg/L	-	ND (0.095)	ND (0.095)	ND (0.19)	ND (0.095)
1,3-Dichlorobenzene	µg/L	-	ND (0.11)	ND (0.11)	ND (0.21)	ND (0.11)
1,4-Dichlorobenzene	µg/L	-	ND (0.21)	ND (0.21)	ND (0.41)	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	µg/L	-	ND (0.55)	ND (0.55)	ND (1.1)	ND (0.55) J
2-Hexanone	µg/L	-	ND (0.16)	ND (0.16) J	ND (0.32)	ND (0.16) J
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	ND (0.53)	ND (0.53)	ND (1.1)	ND (0.53) J
Acetone	µg/L	-	ND (2.5)	ND (2.5)	ND (5.0)	ND (2.5) J
Benzene	µg/L	-	ND (0.11)	ND (0.11)	ND (0.21)	ND (0.11)
Bromodichloromethane	µg/L	-	0.67 J	ND (0.13)	ND (0.26)	ND (0.13)
Bromoform	µg/L	-	ND (0.19)	ND (0.19)	ND (0.38)	ND (0.19)
Bromomethane (Methyl Bromide)	µg/L	-	ND (0.31)	ND (0.31)	ND (0.63)	ND (0.31)
Carbon disulfide	µg/L	-	ND (0.21)	ND (0.21)	ND (0.42)	ND (0.21)
Carbon tetrachloride	µg/L	-	ND (0.14)	ND (0.14)	ND (0.27)	ND (0.14)
Chlorobenzene	µg/L	-	0.17 J	ND (0.14)	ND (0.27)	ND (0.14)
Chloroethane	µg/L	-	ND (0.21)	ND (0.21)	ND (0.43)	ND (0.21) J
Chloroform (Trichloromethane)	µg/L	-	3.9	ND (0.17)	ND (0.34)	ND (0.17)
Chloromethane (Methyl Chloride)	µg/L	-	ND (0.28)	ND (0.28)	ND (0.57)	ND (0.28)
cis-1,2-Dichloroethene	µg/L	-	ND (0.24)	ND (0.24)	ND (0.47)	ND (0.24)
cis-1,3-Dichloropropene	µg/L	-	ND (0.19)	ND (0.19)	ND (0.37)	ND (0.19)
Cyclohexane	µg/L	-	ND (0.25)	ND (0.25)	9.8	ND (0.25)
Dibromochloromethane	µg/L	-	ND (0.14)	ND (0.14)	ND (0.27)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	µg/L	-	ND (0.19) J	ND (0.19) J	ND (0.38) J	ND (0.19) J
Ethylbenzene	µg/L	-	ND (0.23)	ND (0.23)	ND (0.45)	ND (0.23)
Isopropylbenzene	µg/L	-	ND (0.16)	ND (0.16)	0.78 J	ND (0.16)
Methyl acetate	µg/L	-	ND (0.14)	ND (0.14) J	ND (0.28)	ND (0.14) J
Methyl cyclohexane	µg/L	-	ND (0.26)	ND (0.26)	54	ND (0.26)
Methyl Tert Butyl Ether	µg/L	-	0.45 J	1.8	ND (0.37)	ND (0.18)
Methylene chloride	µg/L	-	ND (0.15)	ND (0.15)	ND (0.30)	ND (0.15)
Volatile Organic Compounds (Cont'd.)						
Styrene	µg/L	-	ND (0.097)	ND (0.097)	ND (0.19)	ND (0.097)
Tetrachloroethene	µg/L	-	ND (0.15)	ND (0.15) J	ND (0.30)	ND (0.15)
Toluene	µg/L	-	ND (0.15)	ND (0.15)	ND (0.30)	ND (0.15)
trans-1,2-Dichloroethene	µg/L	-	ND (0.17)	ND (0.17)	ND (0.34)	ND (0.17)

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	Sample Location:	*MW-20-15*	*MW-20-40*	*MW-22-D*	*MW-22-S*	*MW-2-34*
	Sample ID:	*GW-15620-070909-RR-051*	*GW-15620-070909-RR-057*	*GW-15620-071009-DS-036*	*GW-15620-070909-DS-034*	*GW-15620-061809-MM-012*
	Sample Date:	*7/9/2009*	*7/9/2009*	*7/10/2009*	*7/9/2009*	*6/18/2009*
Parameter	*Units*					
trans-1,3-Dichloropropene	µg/L	-	ND (0.15)	ND (0.15)	ND (0.30)	ND (0.15)
Trichloroethene	µg/L	-	ND (0.14)	ND (0.14)	ND (0.29)	ND (0.14)
Trichlorofluoromethane (CFC-11)	µg/L	-	ND (0.20)	ND (0.20)	ND (0.40)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	µg/L	-	ND (0.32)	ND (0.32)	ND (0.64)	ND (0.32)
Vinyl chloride	µg/L	-	ND (0.23)	ND (0.23)	ND (0.45)	ND (0.23)
Xylene (total)	µg/L	-	ND (0.49)	ND (0.49)	ND (0.98)	ND (0.49)
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	-	ND (0.40)	ND (0.33)	ND (0.33)	ND (0.33)
2,4,5-Trichlorophenol	µg/L	-	ND (0.17)	ND (0.14)	ND (0.14)	R
2,4,6-Trichlorophenol	µg/L	-	ND (0.10)	ND (0.085)	ND (0.086)	R
2,4-Dichlorophenol	µg/L	-	ND (0.15)	ND (0.13)	ND (0.13)	R
2,4-Dimethylphenol	µg/L	-	ND (0.092)	ND (0.076)	ND (0.076)	R
2,4-Dinitrophenol	µg/L	-	ND (7.0)	ND (5.8)	ND (5.8)	R
2,4-Dinitrotoluene	µg/L	-	ND (0.19)	ND (0.16)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	µg/L	-	ND (0.22)	ND (0.18)	ND (0.18)	ND (0.18)
2-Chloronaphthalene	µg/L	-	ND (0.17)	ND (0.14)	ND (0.14)	ND (0.15)
2-Chlorophenol	µg/L	-	ND (0.24)	ND (0.20)	ND (0.20)	R
2-Methylnaphthalene	µg/L	-	ND (0.18)	ND (0.15)	ND (0.15)	ND (0.15)
2-Methylphenol	µg/L	-	ND (0.16)	ND (0.13)	ND (0.13)	R
2-Nitroaniline	µg/L	-	ND (0.19)	ND (0.16)	ND (0.16)	ND (0.16)
2-Nitrophenol	µg/L	-	ND (0.16)	ND (0.13)	ND (0.13)	R
3,3'-Dichlorobenzidine	µg/L	-	ND (0.41)	ND (0.34)	ND (0.34)	ND (0.35)
3-Nitroaniline	µg/L	-	ND (0.30)	ND (0.24)	ND (0.25)	ND (0.25)
4,6-Dinitro-2-methylphenol	µg/L	-	ND (8.9)	ND (7.3)	ND (7.4)	R
4-Bromophenyl phenyl ether	µg/L	-	ND (0.21)	ND (0.18)	ND (0.18)	ND (0.18)
4-Chloro-3-methylphenol	µg/L	-	ND (0.29)	ND (0.24)	ND (0.24)	R
4-Chloroaniline	µg/L	-	ND (1.2)	ND (1.0)	ND (1.0)	ND (1.0)
4-Chlorophenyl phenyl ether	µg/L	-	ND (0.12)	ND (0.098)	ND (0.099)	ND (0.10)
4-Methylphenol	µg/L	-	ND (0.20)	ND (0.17)	ND (0.17)	R
4-Nitroaniline	µg/L	-	ND (0.26)	ND (0.21)	ND (0.22)	ND (0.22)
4-Nitrophenol	µg/L	-	ND (8.0)	ND (6.6)	ND (6.7)	R
Acenaphthene	µg/L	-	ND (0.16)	ND (0.14)	ND (0.14)	ND (0.14)
Acenaphthylene	µg/L	-	ND (0.096)	ND (0.080)	ND (0.080)	ND (0.081)
Acetophenone	µg/L	-	ND (0.25)	ND (0.21)	ND (0.21)	ND (0.21)
Semi-Volatile Organic Compounds (Cont'd.)						
Aniline	µg/L	-	ND (0.47)	ND (0.38)	ND (0.39)	1.8 J
Anthracene	µg/L	-	ND (1.2)	ND (0.98)	ND (0.99)	ND (1.0)
Atrazine	µg/L	-	ND (0.23)	ND (0.19)	ND (0.19)	ND (0.19)
Benzaldehyde	µg/L	-	ND (0.57)	ND (0.47)	ND (0.48)	ND (0.48)
Benzo(a)anthracene	µg/L	-	ND (0.20)	ND (0.17)	ND (0.17)	ND (0.17)
Benzo(a)pyrene	µg/L	-	ND (0.13)	ND (0.11)	ND (0.11)	ND (0.11)
Benzo(b)fluoranthene	µg/L	-	ND (0.19)	ND (0.15)	ND (0.15)	ND (0.16)
Benzo(g,h,i)perylene	µg/L	-	ND (0.099)	ND (0.081)	ND (0.082)	ND (0.083)
Benzo(k)fluoranthene	µg/L	-	ND (0.19)	ND (0.15)	ND (0.16)	ND (0.16)

TABLE 3

ANALYTICAL RESULTS SUMMARY
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ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-20-15*	*MW-20-40*	*MW-22-D*	*MW-22-S*	*MW-2-34*
	Sample ID:	*GW-15620-070909-RR-051*	*GW-15620-070909-RR-057*	*GW-15620-071009-DS-036*	*GW-15620-070909-DS-034*	*GW-15620-061809-MM-012*
	Sample Date:	*7/9/2009*	*7/9/2009*	*7/10/2009*	*7/9/2009*	*6/18/2009*
Parameter	***Units***					
Biphenyl (1,1-Biphenyl)	µg/L	-	ND (0.18)	ND (0.14)	ND (0.15)	ND (0.15)
bis(2-Chloroethoxy)methane	µg/L	-	ND (0.16)	ND (0.13)	ND (0.13)	ND (0.13)
bis(2-Chloroethyl)ether	µg/L	-	ND (0.30)	ND (0.25)	ND (0.25)	ND (0.25)
bis(2-Ethylhexyl)phthalate	µg/L	-	ND (0.53)	ND (0.43)	ND (0.44)	ND (0.44)
Butyl benzylphthalate	µg/L	-	ND (3.5)	ND (2.9)	ND (2.9)	ND (2.9)
Caprolactam	µg/L	-	ND (8.2)	ND (6.8)	ND (6.9)	ND (6.9)
Carbazole	µg/L	-	ND (0.16)	ND (0.13)	ND (0.13)	ND (0.13)
Chrysene	µg/L	-	ND (0.12)	ND (0.10)	ND (0.10)	ND (0.10)
Dibenz(a,h)anthracene	µg/L	-	ND (0.15)	ND (0.12)	ND (0.12)	ND (0.12)
Dibenzofuran	µg/L	-	ND (0.21)	ND (0.17)	ND (0.18)	ND (0.18)
Diethyl phthalate	µg/L	-	ND (0.51)	ND (0.42)	ND (0.43)	ND (0.43)
Dimethyl phthalate	µg/L	-	ND (0.16)	ND (0.13)	ND (0.13)	ND (0.13)
Di-n-butylphthalate	µg/L	-	ND (0.34)	ND (0.28)	ND (0.28)	ND (0.29)
Di-n-octyl phthalate	µg/L	-	ND (0.18)	ND (0.15)	ND (0.15)	ND (0.15)
Fluoranthene	µg/L	-	ND (0.11)	ND (0.094)	ND (0.095)	ND (0.096)
Fluorene	µg/L	-	ND (0.11)	ND (0.093)	ND (0.094)	ND (0.095)
Hexachlorobenzene	µg/L	-	ND (0.21)	ND (0.17)	ND (0.17)	ND (0.17)
Hexachlorobutadiene	µg/L	-	ND (0.14)	ND (0.11)	ND (0.12)	ND (0.12)
Hexachlorocyclopentadiene	µg/L	-	ND (0.13)	ND (0.11)	ND (0.11)	ND (0.11)
Hexachloroethane	µg/L	-	ND (0.087)	ND (0.072)	ND (0.073)	ND (0.074)
Indeno(1,2,3-cd)pyrene	µg/L	-	ND (0.18)	ND (0.15)	ND (0.15)	ND (0.15)
Isophorone	µg/L	-	ND (0.33)	ND (0.27)	ND (0.27)	ND (0.28)
Naphthalene	µg/L	-	ND (0.32)	ND (0.26)	ND (0.26)	ND (0.27)
Nitrobenzene	µg/L	-	ND (0.21)	ND (0.17)	ND (0.17)	ND (0.17)
N-Nitrosodi-n-propylamine	µg/L	-	ND (0.44)	ND (0.36)	ND (0.37)	ND (0.37)
N-Nitrosodiphenylamine	µg/L	-	ND (0.56)	ND (0.46)	ND (0.46)	ND (0.47)
Pentachlorophenol	µg/L	-	ND (2.1)	ND (1.8)	ND (1.8)	R
Phenanthrene	µg/L	-	ND (0.32)	ND (0.27)	ND (0.27)	ND (0.27)
Phenol	µg/L	-	ND (0.27)	ND (0.22)	ND (0.22)	R
Pyrene	µg/L	-	ND (0.13)	ND (0.10)	ND (0.11)	ND (0.11)
Metals						
Aluminum	µg/L	-	823	ND (41.0)	ND (21.9)	ND (29.6)
Aluminum (Dissolved)	µg/L	-	94.4 J	ND (17.4)	ND (22.8)	ND (17.7)
Antimony	µg/L	-	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	-	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	µg/L	-	3.1 J	4.9 J	6.2 J	2.8 J
Arsenic (Dissolved)	µg/L	-	ND (2.7)	4.2 J	5.2 J	ND (2.7)
Barium	µg/L	-	33.3 J	195 J	11.9 J	7.4 J
Barium (Dissolved)	µg/L	-	26.2 J	193 J	11.4 J	7.0 J
Beryllium	µg/L	-	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	µg/L	-	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Cadmium	µg/L	-	8.3	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	µg/L	-	7.9	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	µg/L	-	23000	124000	10400	25900
Calcium (Dissolved)	µg/L	-	22700	127000	10200	25600

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ANALYTICAL RESULTS SUMMARY
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	Sample Location:	*MW-20-15*	*MW-20-40*	*MW-22-D*	*MW-22-S*	*MW-2-34*
	Sample ID:	*GW-15620-070909-RR-051*	*GW-15620-070909-RR-057*	*GW-15620-071009-DS-036*	*GW-15620-070909-DS-034*	*GW-15620-061809-MM-012*
	Sample Date:	*7/9/2009*	*7/9/2009*	*7/10/2009*	*7/9/2009*	*6/18/2009*
Parameter	*Units*					
Chromium	µg/L	-	ND (0.57) J	ND (1.2) U	ND (0.57) J	ND (0.57)
Chromium Total (Dissolved)	µg/L	-	ND (0.57) J	ND (0.57)	ND (0.57) J	ND (0.57)
Cobalt	µg/L	-	3.9 J	ND (0.40)	0.52 J	ND (0.40)
Cobalt (Dissolved)	µg/L	-	2.0 J	ND (0.40)	0.54 J	ND (0.40)
Copper	µg/L	-	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	µg/L	-	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Iron	µg/L	-	770	38.3 J	7110	16.6 J
Iron (Dissolved)	µg/L	-	79.0 J	134	6760	ND (11.9)
Lead	µg/L	-	2.7 J	ND (1.3)	1.3 J	ND (1.3)
Lead (Dissolved)	µg/L	-	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Magnesium	µg/L	-	3180 J	13400	1040 J	4070 J
Magnesium (Dissolved)	µg/L	-	3040 J	14100	1030 J	4050 J
Manganese	µg/L	-	721	217	264	65.1
Manganese (Dissolved)	µg/L	-	478	219	255	32.7
Mercury	µg/L	-	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Mercury (Dissolved)	µg/L	-	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	µg/L	-	9.3 J	2.0 J	ND (1.6)	ND (1.6)
Nickel (Dissolved)	µg/L	-	4.5 J	2.2 J	ND (1.6)	ND (1.6)
Potassium	µg/L	-	2250 J	1060 J	2390 J	1250 J
Potassium (Dissolved)	µg/L	-	2240 J	1120 J	2380 J	1270 J
Selenium	µg/L	-	ND (3.0) J	ND (3.0)	ND (3.0) J	ND (3.0)
Selenium (Dissolved)	µg/L	-	ND (3.0) J	ND (3.0)	ND (3.0) J	ND (3.0)
Silver	µg/L	-	5.2	0.82 J	ND (0.68)	ND (0.68)
Silver (Dissolved)	µg/L	-	0.83 J	ND (0.68)	ND (0.68)	ND (0.68)
Metals (Cont'd.)						
Sodium	µg/L	-	50800	17400	23100	12400
Sodium (Dissolved)	µg/L	-	51900	18900	22400	12700
Thallium	µg/L	-	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
Thallium (Dissolved)	µg/L	-	ND (2.4)	ND (2.4)	ND (4.2)	ND (2.4)
Vanadium	µg/L	-	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	µg/L	-	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	µg/L	-	114	ND (2.5)	ND (17.5)	148 J
Zinc (Dissolved)	µg/L	-	117	ND (2.5)	ND (12.0)	ND (4.4)
Polychlorinated Biphenyls						
Aroclor-1016 (PCB-1016)	µg/L	-	ND (0.0025)	ND (0.0024)	ND (0.0024)	ND (0.0025)
Aroclor-1221 (PCB-1221)	µg/L	-	ND (0.0025)	ND (0.0023)	ND (0.0024)	ND (0.0025)
Aroclor-1232 (PCB-1232)	µg/L	-	ND (0.0030)	ND (0.0028)	ND (0.0028)	ND (0.0029)
Aroclor-1242 (PCB-1242)	µg/L	-	ND (0.0019)	ND (0.0017)	ND (0.0018)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	-	ND (0.0023)	ND (0.0021)	ND (0.0022)	ND (0.0023)
Aroclor-1254 (PCB-1254)	µg/L	-	ND (0.0023)	ND (0.0022)	ND (0.0022)	ND (0.0023)
Aroclor-1260 (PCB-1260)	µg/L	-	ND (0.0014)	ND (0.0013)	ND (0.0013)	ND (0.0013)
Gases						
Carbon dioxide	µg/L	-	5700	1300	13000	1400

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ANALYTICAL RESULTS SUMMARY
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	Sample Location:	*MW-20-15*	*MW-20-40*	*MW-22-D*	*MW-22-S*	*MW-2-34*
	Sample ID:	*GW-15620-070909-RR-051*	*GW-15620-070909-RR-057*	*GW-15620-071009-DS-036*	*GW-15620-070909-DS-034*	*GW-15620-061809-MM-012*
	Sample Date:	*7/9/2009*	*7/9/2009*	*7/10/2009*	*7/9/2009*	*6/18/2009*
Parameter	*Units*					
General Chemistry						
Alkalinity, Total (as CaCO3)	mg/L	102	88.9	96.3	52.2	58.1
Ammonia	mg/L	-	0.097 J	ND (0.0094)	0.21	0.21
Chloride	mg/L	96.2	56.6	209	19.6	9.1
Dissolved Organic Carbon (DOC), Dissolved	mg/L	-	0.97 J	1.9	3.8	0.41 J
Nitrate (as N)	mg/L	1.9	0.50	ND (0.011) U	ND (0.0077)	ND (0.0077)
Nitrite (as N)	mg/L	0.20	ND (0.0032)	0.14	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	16.8	24.5	40.3	ND (1.0) U	33.1

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
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	Sample Location:	*MW-23-D*	*MW-23-S*	*MW-24-D*	*MW-24-I*	*MW-24-S*
	Sample ID:	*GW-15620-070909-RR-055*	*GW-15620-070909-RR-053*	*GW-15620-061109-MM-006*	*GW-15620-060909-MM-004*	*GW-15620-060909-MM-002*
	Sample Date:	*7/9/2009*	*7/9/2009*	*6/11/2009*	*6/9/2009*	*6/9/2009*
Parameter	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	µg/L	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
1,1-Dichloroethene	µg/L	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
1,2,4-Trichlorobenzene	µg/L	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	0.45 J
1,2-Dichloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	µg/L	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
1,4-Dichlorobenzene	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)
2-Hexanone	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Acetone	µg/L	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)
Benzene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Bromodichloromethane	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Bromoform	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Bromomethane (Methyl Bromide)	µg/L	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)
Carbon disulfide	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Carbon tetrachloride	µg/L	ND (0.14)	ND (0.14)	ND (0.14) J	ND (0.14)	ND (0.14)
Chlorobenzene	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	1.1
Chloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Chloromethane (Methyl Chloride)	µg/L	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28) J	ND (0.28) J
cis-1,2-Dichloroethene	µg/L	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Cyclohexane	µg/L	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Dibromochloromethane	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (0.19) J	ND (0.19) J	ND (0.19) J	ND (0.19) J	ND (0.19) J
Ethylbenzene	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Isopropylbenzene	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
Methyl acetate	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Methyl cyclohexane	µg/L	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	µg/L	1.4	ND (0.18)	0.27 J	ND (0.18)	ND (0.18)
Methylene chloride	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Volatile Organic Compounds (Cont'd.)						
Styrene	µg/L	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)
Tetrachloroethene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Toluene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
trans-1,2-Dichloroethene	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)

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	Sample Location:	*MW-23-D*	*MW-23-S*	*MW-24-D*	*MW-24-I*	*MW-24-S*
	Sample ID:	*GW-15620-070909-RR-055*	*GW-15620-070909-RR-053*	*GW-15620-061109-MM-006*	*GW-15620-060909-MM-004*	*GW-15620-060909-MM-002*
	Sample Date:	*7/9/2009*	*7/9/2009*	*6/11/2009*	*6/9/2009*	*6/9/2009*
Parameter	*Units*					
trans-1,3-Dichloropropene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Trichloroethene	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Vinyl chloride	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	0.25 J
Xylene (total)	µg/L	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.36)	ND (0.33)	ND (0.33)	ND (0.37)	ND (0.33)
2,4,5-Trichlorophenol	µg/L	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.16)	ND (0.15)
2,4,6-Trichlorophenol	µg/L	ND (0.094)	ND (0.086)	ND (0.087)	ND (0.098)	ND (0.087)
2,4-Dichlorophenol	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
2,4-Dimethylphenol	µg/L	ND (0.083)	ND (0.076)	ND (0.077)	ND (0.087)	ND (0.077)
2,4-Dinitrophenol	µg/L	ND (6.3)	ND (5.8)	ND (5.9)	ND (6.6)	ND (5.9)
2,4-Dinitrotoluene	µg/L	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)
2,6-Dinitrotoluene	µg/L	ND (0.20)	ND (0.18)	ND (0.18)	ND (0.21)	ND (0.18)
2-Chloronaphthalene	µg/L	ND (0.16)	ND (0.14)	ND (0.15)	ND (0.16)	ND (0.15)
2-Chlorophenol	µg/L	ND (0.22)	ND (0.20)	ND (0.20)	ND (0.23)	ND (0.20)
2-Methylnaphthalene	µg/L	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)
2-Methylphenol	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
2-Nitroaniline	µg/L	ND (0.17)	ND (0.16)	ND (0.16)	ND (0.18)	ND (0.16)
2-Nitrophenol	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
3,3'-Dichlorobenzidine	µg/L	ND (0.37)	ND (0.34)	ND (0.35)	ND (0.39)	ND (0.35)
3-Nitroaniline	µg/L	ND (0.27)	ND (0.25)	ND (0.25)	ND (0.28)	ND (0.25)
4,6-Dinitro-2-methylphenol	µg/L	ND (8.0)	ND (7.4)	ND (7.5)	ND (8.4)	ND (7.5)
4-Bromophenyl phenyl ether	µg/L	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.20)	ND (0.18)
4-Chloro-3-methylphenol	µg/L	ND (0.26)	ND (0.24)	ND (0.24)	ND (0.27)	ND (0.24)
4-Chloroaniline	µg/L	ND (1.1)	ND (1.0)	ND (1.0)	ND (1.2)	ND (1.0)
4-Chlorophenyl phenyl ether	µg/L	ND (0.11)	ND (0.099)	ND (0.10)	ND (0.11)	ND (0.10)
4-Methylphenol	µg/L	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)
4-Nitroaniline	µg/L	ND (0.23)	ND (0.22)	ND (0.22)	ND (0.25)	ND (0.22)
4-Nitrophenol	µg/L	ND (7.2)	ND (6.7)	ND (6.8)	ND (7.6)	ND (6.8)
Acenaphthene	µg/L	ND (0.15)	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.14)
Acenaphthylene	µg/L	ND (0.087)	ND (0.080)	ND (0.081)	ND (0.091)	ND (0.081)
Acetophenone	µg/L	ND (0.23)	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.21)
Semi-Volatile Organic Compounds (Cont'd.)						
Aniline	µg/L	ND (0.42)	ND (0.39)	ND (0.39)	ND (0.44)	ND (0.39)
Anthracene	µg/L	ND (1.1)	ND (0.99)	ND (1.0)	ND (1.1)	ND (1.0)
Atrazine	µg/L	ND (0.21)	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.19)
Benzaldehyde	µg/L	ND (0.52)	ND (0.48)	ND (0.48)	ND (0.54)	ND (0.48)
Benzo(a)anthracene	µg/L	ND (0.18)	ND (0.17)	ND (0.17)	2.6	ND (0.17)
Benzo(a)pyrene	µg/L	ND (0.12)	ND (0.11)	ND (0.11)	1.7 J	ND (0.11)
Benzo(b)fluoranthene	µg/L	ND (0.17)	ND (0.15)	ND (0.16)	3.9	ND (0.16)
Benzo(g,h,i)perylene	µg/L	ND (0.089)	ND (0.082)	ND (0.083)	2.7	ND (0.083)
Benzo(k)fluoranthene	µg/L	ND (0.17)	ND (0.16)	ND (0.16)	3.2	ND (0.16)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-23-D*	*MW-23-S*	*MW-24-D*	*MW-24-I*	*MW-24-S*
	Sample ID:	*GW-15620-070909-RR-055*	*GW-15620-070909-RR-053*	*GW-15620-061109-MM-006*	*GW-15620-060909-MM-004*	*GW-15620-060909-MM-002*
	Sample Date:	*7/9/2009*	*7/9/2009*	*6/11/2009*	*6/9/2009*	*6/9/2009*
Parameter	***Units***					
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)
bis(2-Chloroethoxy)methane	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
bis(2-Chloroethyl)ether	µg/L	ND (0.27)	ND (0.25)	ND (0.25)	ND (0.28)	ND (0.25)
bis(2-Ethylhexyl)phthalate	µg/L	ND (0.48)	ND (0.44)	ND (0.44)	2.0 J	ND (0.44)
Butyl benzylphthalate	µg/L	ND (3.2)	ND (2.9)	ND (2.9)	ND (3.3)	ND (2.9)
Caprolactam	µg/L	ND (7.4)	ND (6.9)	ND (6.9)	ND (7.8)	ND (6.9)
Carbazole	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
Chrysene	µg/L	ND (0.11)	ND (0.10)	ND (0.10)	3.4	ND (0.10)
Dibenz(a,h)anthracene	µg/L	ND (0.13)	ND (0.12)	ND (0.12)	3.1	ND (0.12)
Dibenzofuran	µg/L	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.20)	ND (0.18)
Diethyl phthalate	µg/L	ND (0.46)	ND (0.43)	ND (1.4) U	ND (0.48)	ND (0.43)
Dimethyl phthalate	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
Di-n-butylphthalate	µg/L	ND (0.31)	ND (0.28)	ND (0.29)	ND (0.32)	ND (0.29)
Di-n-octyl phthalate	µg/L	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)
Fluoranthene	µg/L	ND (0.10)	ND (0.095)	ND (0.096)	1.1 J	ND (0.096)
Fluorene	µg/L	ND (0.10)	ND (0.094)	ND (0.095)	ND (0.11)	ND (0.095)
Hexachlorobenzene	µg/L	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.20)	ND (0.17)
Hexachlorobutadiene	µg/L	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.12)
Hexachlorocyclopentadiene	µg/L	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Hexachloroethane	µg/L	ND (0.079)	ND (0.073)	ND (0.074)	ND (0.083)	ND (0.074)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.17)	ND (0.15)	ND (0.15)	3.1	ND (0.15)
Isophorone	µg/L	ND (0.30)	ND (0.27)	ND (0.28)	ND (0.31)	ND (0.28)
Naphthalene	µg/L	ND (0.29)	ND (0.26)	ND (0.27)	ND (0.30)	ND (0.27)
Nitrobenzene	µg/L	ND (0.19)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)
N-Nitrosodi-n-propylamine	µg/L	ND (0.40)	ND (0.37)	ND (0.37)	ND (0.42)	ND (0.37)
N-Nitrosodiphenylamine	µg/L	ND (0.50)	ND (0.46)	ND (0.47)	ND (0.53)	ND (0.47)
Pentachlorophenol	µg/L	ND (1.9)	ND (1.8)	ND (1.8)	ND (2.0)	ND (1.8)
Phenanthrene	µg/L	ND (0.29)	ND (0.27)	ND (0.27)	ND (0.31)	ND (0.27)
Phenol	µg/L	ND (0.24)	ND (0.22)	ND (0.23)	ND (0.26)	ND (0.23)
Pyrene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	1.4 J	ND (0.11)
Metals						
Aluminum	µg/L	116 J	ND (43.0)	ND (9.7)	ND (156)	ND (137)
Aluminum (Dissolved)	µg/L	ND (20.0)	ND (26.0)	ND (9.7)	ND (58.8)	ND (64.4)
Antimony	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	ND (1.3)	ND (1.3)	1.3 J	ND (1.3)	ND (1.3)
Arsenic	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	2.9 J
Arsenic (Dissolved)	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	3.1 J
Barium	µg/L	51.0 J	33.8 J	12.5 J	2.8 J	24.8 J
Barium (Dissolved)	µg/L	52.3 J	33.0 J	12.3 J	1.8 J	22.4 J
Beryllium	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.45)	ND (0.41)
Beryllium (Dissolved)	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.58)	ND (0.52)
Cadmium	µg/L	ND (0.13)	0.32 J	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	µg/L	ND (0.13)	0.16 J	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	µg/L	54400	20200	40200	20600	50200
Calcium (Dissolved)	µg/L	58500	20300	41000	20200	47700

TABLE 3

ANALYTICAL RESULTS SUMMARY
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	Sample Location:	*MW-23-D*	*MW-23-S*	*MW-24-D*	*MW-24-I*	*MW-24-S*
	Sample ID:	*GW-15620-070909-RR-055*	*GW-15620-070909-RR-053*	*GW-15620-061109-MM-006*	*GW-15620-060909-MM-004*	*GW-15620-060909-MM-002*
	Sample Date:	*7/9/2009*	*7/9/2009*	*6/11/2009*	*6/9/2009*	*6/9/2009*
Parameter	***Units***					
Chromium	µg/L	ND (0.57) J	ND (0.57) J	ND (0.57)	0.62 J	1.1 J
Chromium Total (Dissolved)	µg/L	ND (0.57) J	ND (0.57) J	ND (0.57)	ND (0.57)	ND (0.57)
Cobalt	µg/L	0.42 J	1.4 J	ND (0.40)	1.2 J	ND (0.40)
Cobalt (Dissolved)	µg/L	ND (0.40)	0.96 J	0.52 J	1.4 J	ND (0.40)
Copper	µg/L	ND (2.7)	4.1 J	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	µg/L	ND (2.7)	4.0 J	ND (2.7)	ND (2.7)	ND (2.7)
Iron	µg/L	1620	38.6 J	24.1 J	142	1520
Iron (Dissolved)	µg/L	1510	ND (11.9)	ND (11.9)	26.9 J	1050
Lead	µg/L	1.4 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Lead (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Magnesium	µg/L	6070	1920 J	6360	4630 J	1690 J
Magnesium (Dissolved)	µg/L	6590	1960 J	6460	4580 J	1800 J
Manganese	µg/L	177	998	633	1620	271
Manganese (Dissolved)	µg/L	182	1010	609	1550	258
Mercury	µg/L	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.053)	ND (0.064)
Mercury (Dissolved)	µg/L	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.047)	ND (0.064)
Nickel	µg/L	1.9 J	ND (1.6)	ND (1.6)	3.6 J	1.9 J
Nickel (Dissolved)	µg/L	ND (1.6)	ND (1.6)	ND (1.6)	3.5 J	2.0 J
Potassium	µg/L	3550 J	5210	979 J	ND (1100) U	4990 J
Potassium (Dissolved)	µg/L	3730 J	5400	1230 J	ND (1070) U	4780 J
Selenium	µg/L	ND (3.0) J	ND (3.0) J	3.1 J	ND (3.0)	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0) J	ND (3.0) J	ND (3.0)	ND (3.0)	ND (3.0)
Silver	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Silver (Dissolved)	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Metals (Cont'd.)						
Sodium	µg/L	116000	65000	11800	8630	33400
Sodium (Dissolved)	µg/L	125000	65500	11900	8580	32500
Thallium	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
Thallium (Dissolved)	µg/L	ND (3.1)	ND (2.7) U	ND (2.4)	ND (2.7)	ND (2.4)
Vanadium	µg/L	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	µg/L	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	µg/L	108	28.5	ND (2.9)	ND (5.6)	ND (8.4)
Zinc (Dissolved)	µg/L	ND (7.1)	ND (28.5)	5.0 J	ND (5.5)	ND (7.7)
Polychlorinated Biphenyls						
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0024)	ND (0.0024)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0025)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0029)	ND (0.0029)	ND (0.0029)	ND (0.0028)	ND (0.0028)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0019)	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	ND (0.0023)	ND (0.0022)	ND (0.0022)	ND (0.0022)	0.069
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0023)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0014)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
Gases						
Carbon dioxide	µg/L	16000	20000	4500	8200	1400

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-23-D*	*MW-23-S*	*MW-24-D*	*MW-24-I*	*MW-24-S*
	Sample ID:	*GW-15620-070909-RR-055*	*GW-15620-070909-RR-053*	*GW-15620-061109-MM-006*	*GW-15620-060909-MM-004*	*GW-15620-060909-MM-002*
	Sample Date:	*7/9/2009*	*7/9/2009*	*6/11/2009*	*6/9/2009*	*6/9/2009*
Parameter	***Units***					
General Chemistry						
Alkalinity, Total (as CaCO3)	mg/L	80.0	51.5	99.7	76.2	149
Ammonia	mg/L	0.097 J	0.74	0.24	0.25	0.94
Chloride	mg/L	207	90.0	23.7	8.1	45.8
Dissolved Organic Carbon (DOC), Dissolved	mg/L	1.0	3.9	0.86 J	1.6	6.2
Nitrate (as N)	mg/L	0.77	6.1	0.13	ND (0.0077)	ND (0.0077)
Nitrite (as N)	mg/L	0.47	0.20	ND (0.0032)	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	21.9	12.3	28.0	3.5	3.7

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-25-D*	*MW-25-D*	*MW-25-S*	*MW-26-S*	*MW-27-D*
	Sample ID:	*GW-15620-072209-RW-056*	*GW-15620-072209-RW-066*	*GW-15620-072209-RW-068*	*GW-15620-071009-RR-061*	*GW-15620-072109-RW-46*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/10/2009*	*7/21/2009*
			Duplicate			
Parameter	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	µg/L	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
1,1-Dichloroethene	µg/L	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	ND (0.15)	ND (0.15) J	ND (0.15) J	6.8	ND (0.15)
1,2,4-Trichlorobenzene	µg/L	ND (0.27)	ND (0.27)	ND (0.27)	22	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (0.14)	ND (0.14) J	ND (0.14) J	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	µg/L	0.22 J	0.15 J	0.19 J	18	0.28 J
1,2-Dichloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	µg/L	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	0.51 J	ND (0.11)
1,4-Dichlorobenzene	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	3.0	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)
2-Hexanone	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16) J	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Acetone	µg/L	ND (2.5)	ND (2.5)	3.5 J	ND (2.5)	ND (2.5)
Benzene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	0.48 J
Bromodichloromethane	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Bromoform	µg/L	ND (0.19)	ND (0.19) J	ND (0.19) J	ND (0.19)	ND (0.19)
Bromomethane (Methyl Bromide)	µg/L	ND (0.31) J	ND (0.31) J	ND (0.31) J	ND (0.31)	ND (0.31) J
Carbon disulfide	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	1.3
Carbon tetrachloride	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Chlorobenzene	µg/L	0.40 J	0.29 J	0.41 J	10	3.9
Chloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
Chloromethane (Methyl Chloride)	µg/L	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
cis-1,2-Dichloroethene	µg/L	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Cyclohexane	µg/L	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Dibromochloromethane	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (0.19) J	ND (0.19)	ND (0.19)	ND (0.19) J	ND (0.19) J
Ethylbenzene	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Isopropylbenzene	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
Methyl acetate	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14) J	ND (0.14)
Methyl cyclohexane	µg/L	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	3.1	0.95 J
Methylene chloride	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Volatile Organic Compounds (Cont'd.)						
Styrene	µg/L	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)
Tetrachloroethene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15) J	ND (0.15)
Toluene	µg/L	ND (0.15)	0.15 J	0.18 J	ND (0.15)	0.29 J
trans-1,2-Dichloroethene	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-25-D*	*MW-25-D*	*MW-25-S*	*MW-26-S*	*MW-27-D*
	Sample ID:	*GW-15620-072209-RW-056*	*GW-15620-072209-RW-066*	*GW-15620-072209-RW-068*	*GW-15620-071009-RR-061*	*GW-15620-072109-RW-46*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/10/2009*	*7/21/2009*
			Duplicate			
Parameter	*Units*					
trans-1,3-Dichloropropene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Trichloroethene	µg/L	ND (0.14)	ND (0.14)	ND (0.23) U	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	µg/L	ND (0.20) J	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20) J
Trifluorotrichloroethane (Freon 113)	µg/L	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Vinyl chloride	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Xylene (total)	µg/L	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.34)	ND (0.33)	ND (0.33)	ND (0.35)	ND (0.33)
2,4,5-Trichlorophenol	µg/L	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.15)	ND (0.14)
2,4,6-Trichlorophenol	µg/L	ND (0.089)	ND (0.087)	ND (0.085)	ND (0.091)	ND (0.085)
2,4-Dichlorophenol	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
2,4-Dimethylphenol	µg/L	ND (0.079)	ND (0.077)	ND (0.076)	ND (0.080)	ND (0.076)
2,4-Dinitrophenol	µg/L	ND (6.0)	ND (5.9)	ND (5.8)	ND (6.1)	ND (5.8)
2,4-Dinitrotoluene	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	µg/L	ND (0.19)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.18)
2-Chloronaphthalene	µg/L	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.15)	ND (0.14)
2-Chlorophenol	µg/L	ND (0.21)	ND (0.20)	ND (0.20)	ND (0.21)	ND (0.20)
2-Methylnaphthalene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)
2-Methylphenol	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)
2-Nitroaniline	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)
2-Nitrophenol	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)
3,3'-Dichlorobenzidine	µg/L	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.36)	ND (0.34)
3-Nitroaniline	µg/L	ND (0.25)	ND (0.25)	ND (0.24)	ND (0.26)	ND (0.24)
4,6-Dinitro-2-methylphenol	µg/L	ND (7.6)	ND (7.5)	ND (7.3)	ND (7.8)	ND (7.3)
4-Bromophenyl phenyl ether	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.18)
4-Chloro-3-methylphenol	µg/L	ND (0.25)	ND (0.24)	ND (0.24)	ND (0.25)	ND (0.24)
4-Chloroaniline	µg/L	ND (1.1)	ND (1.0)	ND (1.0)	ND (1.1)	ND (1.0)
4-Chlorophenyl phenyl ether	µg/L	ND (0.10)	ND (0.10)	ND (0.098)	ND (0.10)	ND (0.098)
4-Methylphenol	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)
4-Nitroaniline	µg/L	ND (0.22)	ND (0.22)	ND (0.21)	ND (0.23)	ND (0.21)
4-Nitrophenol	µg/L	ND (6.9)	ND (6.8)	ND (6.6)	ND (7.0)	ND (6.6)
Acenaphthene	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Acenaphthylene	µg/L	ND (0.083)	ND (0.081)	ND (0.080)	ND (0.085)	ND (0.080)
Acetophenone	µg/L	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.21)
Semi-Volatile Organic Compounds (Cont'd.)						
Aniline	µg/L	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.41)	ND (0.38)
Anthracene	µg/L	ND (1.0)	ND (1.0)	ND (0.98)	ND (1.0)	ND (0.98)
Atrazine	µg/L	ND (0.20)	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.19)
Benzaldehyde	µg/L	ND (0.49)	ND (0.48)	ND (0.47)	ND (0.50)	ND (0.47)
Benzo(a)anthracene	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)
Benzo(a)pyrene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Benzo(b)fluoranthene	µg/L	ND (0.16)	ND (0.16)	ND (0.15)	ND (0.16)	ND (0.15)
Benzo(g,h,i)perylene	µg/L	ND (0.085)	ND (0.083)	ND (0.081)	ND (0.087)	ND (0.081)
Benzo(k)fluoranthene	µg/L	ND (0.16)	ND (0.16)	ND (0.15)	ND (0.16)	ND (0.15)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-25-D*	*MW-25-D*	*MW-25-S*	*MW-26-S*	*MW-27-D*
	Sample ID:	*GW-15620-072209-RW-056*	*GW-15620-072209-RW-066*	*GW-15620-072209-RW-068*	*GW-15620-071009-RR-061*	*GW-15620-072109-RW-46*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/10/2009*	*7/21/2009*
			Duplicate			
Parameter	*Units*					
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.15)	ND (0.15)	ND (0.14)	ND (0.15)	ND (0.14)
bis(2-Chloroethoxy)methane	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)
bis(2-Chloroethyl)ether	µg/L	ND (0.26)	ND (0.25)	ND (0.25)	ND (0.26)	ND (0.25)
bis(2-Ethylhexyl)phthalate	µg/L	ND (0.45)	4.6 J	ND (0.43)	ND (0.46)	ND (0.43)
Butyl benzylphthalate	µg/L	ND (3.0)	ND (2.9)	ND (2.9)	ND (3.1)	ND (2.9)
Caprolactam	µg/L	ND (7.1)	ND (7.4) U	ND (6.8)	ND (7.2)	36 J
Carbazole	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)
Chrysene	µg/L	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Dibenz(a,h)anthracene	µg/L	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.12)
Dibenzofuran	µg/L	ND (0.18)	ND (0.18)	ND (0.17)	ND (0.18)	ND (0.17)
Diethyl phthalate	µg/L	ND (0.44)	1.3 J	0.97 J	ND (0.45)	11
Dimethyl phthalate	µg/L	ND (0.14)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)
Di-n-butylphthalate	µg/L	ND (0.29)	ND (0.29)	ND (0.28)	ND (0.30)	ND (0.28)
Di-n-octyl phthalate	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)
Fluoranthene	µg/L	ND (0.098)	ND (0.096)	ND (0.094)	ND (0.10)	ND (0.094)
Fluorene	µg/L	ND (0.097)	ND (0.095)	ND (0.093)	ND (0.099)	ND (0.093)
Hexachlorobenzene	µg/L	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)
Hexachlorobutadiene	µg/L	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.12)	ND (0.11)
Hexachlorocyclopentadiene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Hexachloroethane	µg/L	ND (0.075)	ND (0.074)	ND (0.072)	ND (0.077)	ND (0.072)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)
Isophorone	µg/L	ND (0.28)	ND (0.28)	ND (0.27)	ND (0.29)	ND (0.27)
Naphthalene	µg/L	ND (0.27)	ND (0.27)	ND (0.26)	ND (0.28)	ND (0.26)
Nitrobenzene	µg/L	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)
N-Nitrosodi-n-propylamine	µg/L	ND (0.38)	ND (0.37)	ND (0.36)	ND (0.39)	ND (0.36)
N-Nitrosodiphenylamine	µg/L	ND (0.48)	ND (0.47)	ND (0.46)	ND (0.49)	ND (0.46)
Pentachlorophenol	µg/L	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.9)	ND (1.8)
Phenanthrene	µg/L	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.28)	ND (0.27)
Phenol	µg/L	ND (0.23)	ND (0.23)	ND (0.22)	ND (0.24)	ND (0.22)
Pyrene	µg/L	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.10)
Metals						
Aluminum	µg/L	ND (123)	ND (153)	1120	97.8 J	158 J
Aluminum (Dissolved)	µg/L	ND (35.2)	ND (35.8)	ND (68.9)	ND (29.7)	ND (28.8)
Antimony	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	µg/L	3.5 J	3.1 J	7.0 J	ND (2.7)	3.7 J
Arsenic (Dissolved)	µg/L	ND (2.7)	ND (2.7)	7.4 J	ND (2.7)	4.1 J
Barium	µg/L	21.9 J	22.3 J	22.2 J	8.2 J	60.4 J
Barium (Dissolved)	µg/L	14.8 J	15.2 J	14.3 J	8.4 J	52.7 J
Beryllium	µg/L	ND (0.27)	ND (0.26)	ND (0.46)	ND (0.28)	ND (0.23)
Beryllium (Dissolved)	µg/L	ND (0.35)	ND (0.30)	ND (0.33)	ND (0.23)	ND (0.23)
Cadmium	µg/L	ND (0.13)	0.17 J	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	µg/L	23300	23400	5650	9610	219000
Calcium (Dissolved)	µg/L	24400	23900	5660	10700	226000

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-25-D*	*MW-25-D*	*MW-25-S*	*MW-26-S*	*MW-27-D*
	Sample ID:	*GW-15620-072209-RW-056*	*GW-15620-072209-RW-066*	*GW-15620-072209-RW-068*	*GW-15620-071009-RR-061*	*GW-15620-072109-RW-46*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/10/2009*	*7/21/2009*
			Duplicate			
Parameter	*Units*					
Chromium	µg/L	ND (0.57)	ND (0.78)	ND (4.2)	ND (1.2)	ND (1.1)
Chromium Total (Dissolved)	µg/L	ND (0.57)	ND (0.57)	ND (1.1)	ND (0.57)	ND (0.57)
Cobalt	µg/L	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.81)
Cobalt (Dissolved)	µg/L	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.65)
Copper	µg/L	ND (2.7)	2.9 J	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Iron	µg/L	341	376	20800	711	824
Iron (Dissolved)	µg/L	ND (11.9)	ND (11.9)	18700	304	515
Lead	µg/L	1.4 J	3.7	5.3	ND (1.3)	ND (2.0)
Lead (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	1.6 J
Magnesium	µg/L	4040 J	4060 J	1620 J	6840 J	41600
Magnesium (Dissolved)	µg/L	4230 J	4150 J	1530 J	7750 J	43600
Manganese	µg/L	50.4	47.8	863	115	1060
Manganese (Dissolved)	µg/L	4.5 J	7.4 J	875	122	1110
Mercury	µg/L	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Mercury (Dissolved)	µg/L	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	µg/L	3.2 J	4.1 J	4.0 J	1.9 J	2.8 J
Nickel (Dissolved)	µg/L	ND (1.6)	ND (1.6)	4.1 J	ND (1.6)	ND (1.6)
Potassium	µg/L	12600	12800	1260 J	3290 J	7660
Potassium (Dissolved)	µg/L	7070	7540	ND (626)	3750 J	4250 J
Selenium	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	µg/L	5.5	5.1	1.7 J	0.79 J	1.9 J
Silver (Dissolved)	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Metals (Cont'd.)						
Sodium	µg/L	12000	12100	5970	21600	387000
Sodium (Dissolved)	µg/L	9860	10100	6010	24200	395000
Thallium	µg/L	ND (2.4)	ND (2.4)	2.4 J	ND (2.6)	ND (2.4)
Thallium (Dissolved)	µg/L	ND (2.4)	ND (2.4)	2.8 J	4.7 J	3.0 J
Vanadium	µg/L	ND (1.9)	ND (1.9)	5.9 J	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	µg/L	ND (1.9)	ND (1.9)	2.1 J	ND (1.9)	ND (1.9)
Zinc	µg/L	ND (26.4)	ND (23.2)	ND (27.0)	35.7	129
Zinc (Dissolved)	µg/L	ND (17.1)	ND (13.1)	ND (17.8)	27.0	3.0 J
Polychlorinated Biphenyls						
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0023)	ND (0.0024)	ND (0.0023)	ND (0.0024)	ND (0.0023)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)
Aroclor-1242 (PCB-1242)	µg/L	0.021	0.026	0.026	ND (0.0018)	ND (0.0017)
Aroclor-1248 (PCB-1248)	µg/L	ND (0.0021)	ND (0.0022)	ND (0.0021)	ND (0.0022)	ND (0.0021)
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
Gases						
Carbon dioxide	µg/L	2200	1900	24000	38000	1400

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-25-D*	*MW-25-D*	*MW-25-S*	*MW-26-S*	*MW-27-D*
	Sample ID:	*GW-15620-072209-RW-056*	*GW-15620-072209-RW-066*	*GW-15620-072209-RW-068*	*GW-15620-071009-RR-061*	*GW-15620-072109-RW-46*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/10/2009*	*7/21/2009*
			Duplicate			
Parameter	*Units*					
General Chemistry						
Alkalinity, Total (as CaCO3)	mg/L	86.0	87.5	28.6	44.0	139
Ammonia	mg/L	ND (0.15)	ND (0.39)	1.5	1.2	0.45
Chloride	mg/L	7.3	7.5	5.2	35.6	826
Dissolved Organic Carbon (DOC), Dissolved	mg/L	ND (0.88)	ND (0.54)	4.7	1.3	7.6
Nitrate (as N)	mg/L	0.81	0.82	0.078	0.26	ND (0.0077)
Nitrite (as N)	mg/L	ND (0.0032)	ND (0.0032)	ND (0.0032)	0.17	0.33
Sulfate	mg/L	18.3	18.4	ND (0.78)	26.2	151

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-27-S*	*MW-27-S*	*MW-28-D*	*MW-28-D*	*MW-28-I*	*MW-28-S*
	Sample ID:	*GW-15620-072109-RW-48*	*GW-15620-072109-RW-50*	*GW-15620-070809-RR-049*	*GW-15620-070909-RR-049*	*GW-15620-070709-RR-047*	*GW-15620-070709-RR-045*
	Sample Date:	*7/21/2009*	*7/21/2009*	*7/8/2009*	*7/9/2009*	*7/7/2009*	*7/7/2009*
			Duplicate				
Parameter	*Units*						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	ND (1.4)	ND (1.4)	ND (5.7)	-	ND (36)	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	ND (1.0)	ND (1.0)	ND (4.0)	-	ND (25)	ND (0.20)
1,1,2-Trichloroethane	µg/L	ND (1.0)	ND (1.0)	ND (4.0)	-	ND (25)	ND (0.20)
1,1-Dichloroethane	µg/L	ND (0.58)	ND (0.58)	ND (2.3)	-	ND (15)	ND (0.12)
1,1-Dichloroethene	µg/L	ND (1.5)	ND (1.5)	ND (5.9)	-	ND (37)	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	ND (0.77)	ND (0.77)	ND (3.1)	-	ND (19)	0.24 J
1,2,4-Trichlorobenzene	µg/L	1.6 J	1.4 J	6.6 J	-	35 J	0.69 J
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (0.70)	ND (0.70)	ND (2.8)	-	ND (18)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (0.90)	ND (0.90)	ND (3.6)	-	ND (23)	ND (0.18)
1,2-Dichlorobenzene	µg/L	10	10	80	-	96 J	1.1
1,2-Dichloroethane	µg/L	ND (1.1)	ND (1.1)	ND (4.2)	-	ND (26)	ND (0.21)
1,2-Dichloropropane	µg/L	ND (0.47)	ND (0.47)	ND (1.9)	-	ND (12)	ND (0.095)
1,3-Dichlorobenzene	µg/L	4.2 J	4.8 J	13 J	-	62 J	1.6
1,4-Dichlorobenzene	µg/L	14	15	37	-	190	3.0
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (2.7)	ND (2.7)	ND (11)	-	ND (68)	ND (0.55)
2-Hexanone	µg/L	ND (0.80)	ND (0.80)	ND (3.2)	-	ND (20)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (2.6)	ND (2.6)	ND (11)	-	ND (66)	ND (0.53)
Acetone	µg/L	ND (12)	ND (12)	ND (50)	-	ND (310)	ND (2.5)
Benzene	µg/L	1.1 J	1.0 J	7.3 J	-	ND (13)	ND (0.11)
Bromodichloromethane	µg/L	ND (0.65)	ND (0.65)	ND (2.6)	-	ND (16)	ND (0.13)
Bromoform	µg/L	ND (0.96)	ND (0.96)	ND (3.8) J	-	ND (24)	ND (0.19)
Bromomethane (Methyl Bromide)	µg/L	ND (1.6) J	ND (1.6) J	ND (6.3)	-	ND (39)	ND (0.31)
Carbon disulfide	µg/L	ND (1.1)	ND (1.1)	ND (4.2)	-	ND (26)	ND (0.21)
Carbon tetrachloride	µg/L	ND (0.68)	ND (0.68)	ND (2.7) J	-	ND (17)	ND (0.14)
Chlorobenzene	µg/L	97	98	630	-	1500	14
Chloroethane	µg/L	ND (1.1)	ND (1.1)	ND (4.3)	-	ND (27)	ND (0.21)
Chloroform (Trichloromethane)	µg/L	ND (0.85)	ND (0.85)	ND (3.4)	-	ND (21)	ND (0.17)
Chloromethane (Methyl Chloride)	µg/L	ND (1.4)	ND (1.4)	ND (5.7)	-	ND (35)	ND (0.28)
cis-1,2-Dichloroethene	µg/L	ND (1.2)	ND (1.2)	ND (4.7)	-	ND (30)	ND (0.24)
cis-1,3-Dichloropropene	µg/L	ND (0.93)	ND (0.93)	ND (3.7)	-	ND (23)	ND (0.19)
Cyclohexane	µg/L	ND (1.3)	ND (1.3)	ND (5.1)	-	ND (32)	ND (0.25)
Dibromochloromethane	µg/L	ND (0.68)	ND (0.68)	ND (2.7)	-	ND (17)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (0.96) J	ND (0.96) J	ND (3.8)	-	ND (24)	ND (0.19)
Ethylbenzene	µg/L	ND (1.1)	ND (1.1)	ND (4.5)	-	ND (28)	ND (0.23)
Isopropylbenzene	µg/L	ND (0.82)	ND (0.82)	ND (3.3)	-	ND (20)	ND (0.16)
Methyl acetate	µg/L	ND (0.69)	ND (0.69)	ND (2.8)	-	ND (17)	ND (0.14)
Methyl cyclohexane	µg/L	ND (1.3)	ND (1.3)	ND (5.2)	-	ND (33)	ND (0.26)
Methyl Tert Butyl Ether	µg/L	ND (0.92)	ND (0.92)	ND (3.7)	-	ND (23)	ND (0.18)
Methylene chloride	µg/L	ND (0.75)	ND (0.75)	6.8 J	-	ND (19)	ND (0.15)
Volatile Organic Compounds (Cont'd.)							
Styrene	µg/L	ND (0.48)	ND (0.48)	ND (1.9)	-	ND (12)	ND (0.097)
Tetrachloroethene	µg/L	ND (0.74)	ND (0.74)	ND (3.0)	-	ND (19)	ND (0.15)
Toluene	µg/L	ND (0.75)	ND (0.75)	ND (3.0)	-	ND (19)	ND (0.15)
trans-1,2-Dichloroethene	µg/L	ND (0.85)	ND (0.85)	ND (3.4)	-	ND (21)	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-27-S*	*MW-27-S*	*MW-28-D*	*MW-28-D*	*MW-28-I*	*MW-28-S*
	Sample ID:	*GW-15620-072109-RW-48*	*GW-15620-072109-RW-50*	*GW-15620-070809-RR-049*	*GW-15620-070909-RR-049*	*GW-15620-070709-RR-047*	*GW-15620-070709-RR-045*
	Sample Date:	*7/21/2009*	*7/21/2009*	*7/8/2009*	*7/9/2009*	*7/7/2009*	*7/7/2009*
			Duplicate				
Parameter	*Units*						
trans-1,3-Dichloropropene	µg/L	ND (0.74)	ND (0.74)	ND (3.0)	-	ND (18)	ND (0.15)
Trichloroethene	µg/L	ND (0.72)	ND (0.72)	ND (2.9)	-	ND (18)	ND (0.14)
Trichlorofluoromethane (CFC-11)	µg/L	ND (0.99) J	ND (0.99) J	ND (4.0)	-	ND (25)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (1.6)	ND (1.6)	ND (6.4)	-	ND (40)	ND (0.32)
Vinyl chloride	µg/L	ND (1.1)	ND (1.1)	ND (4.5)	-	ND (28)	ND (0.23)
Xylene (total)	µg/L	ND (2.4)	ND (2.4)	ND (9.8)	-	ND (61)	ND (0.49)
Semi-Volatile Organic Compounds							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.33)	ND (0.33)	ND (0.40)	-	ND (0.36)	ND (0.36)
2,4,5-Trichlorophenol	µg/L	ND (0.14)	ND (0.14)	ND (0.17)	-	ND (0.16)	ND (0.16)
2,4,6-Trichlorophenol	µg/L	ND (0.085)	ND (0.085)	ND (0.10)	-	ND (0.094)	ND (0.094)
2,4-Dichlorophenol	µg/L	ND (0.13)	ND (0.13)	ND (0.15)	-	ND (0.14)	ND (0.14)
2,4-Dimethylphenol	µg/L	ND (0.076)	ND (0.076)	ND (0.092)	-	ND (0.084)	ND (0.084)
2,4-Dinitrophenol	µg/L	ND (5.8)	ND (5.8)	ND (7.0)	-	ND (6.4)	ND (6.4)
2,4-Dinitrotoluene	µg/L	ND (0.16)	ND (0.16)	ND (0.19)	-	ND (0.17)	ND (0.17)
2,6-Dinitrotoluene	µg/L	ND (0.18)	ND (0.18)	ND (0.22)	-	ND (0.20)	ND (0.20)
2-Chloronaphthalene	µg/L	ND (0.14)	ND (0.14)	ND (0.17)	-	ND (0.16)	ND (0.16)
2-Chlorophenol	µg/L	ND (0.20)	ND (0.20)	ND (0.24)	-	ND (0.22)	ND (0.22)
2-Methylnaphthalene	µg/L	ND (0.15)	ND (0.15)	ND (0.18)	-	ND (0.16)	ND (0.16)
2-Methylphenol	µg/L	ND (0.13)	ND (0.13)	ND (0.16)	-	ND (0.15)	ND (0.15)
2-Nitroaniline	µg/L	ND (0.16)	ND (0.16)	ND (0.19)	-	ND (0.17)	ND (0.17)
2-Nitrophenol	µg/L	ND (0.13)	ND (0.13)	ND (0.16)	-	ND (0.15)	ND (0.15)
3,3'-Dichlorobenzidine	µg/L	ND (0.34)	ND (0.34)	ND (0.41)	-	ND (0.38)	ND (0.38)
3-Nitroaniline	µg/L	ND (0.24)	ND (0.24)	ND (0.30)	-	ND (0.27)	ND (0.27)
4,6-Dinitro-2-methylphenol	µg/L	ND (7.3)	ND (7.3)	ND (8.9)	-	ND (8.1)	ND (8.1)
4-Bromophenyl phenyl ether	µg/L	ND (0.18)	ND (0.18)	ND (0.21)	-	ND (0.20)	ND (0.20)
4-Chloro-3-methylphenol	µg/L	ND (0.24)	ND (0.24)	ND (0.29)	-	ND (0.26)	ND (0.26)
4-Chloroaniline	µg/L	ND (1.0)	ND (1.0)	ND (1.2)	-	ND (1.1)	ND (1.1)
4-Chlorophenyl phenyl ether	µg/L	ND (0.098)	ND (0.098)	ND (0.12)	-	ND (0.11)	ND (0.11)
4-Methylphenol	µg/L	ND (0.17)	ND (0.17)	ND (0.20)	-	ND (0.18)	ND (0.18)
4-Nitroaniline	µg/L	ND (0.21)	ND (0.21)	ND (0.26)	-	ND (0.24)	ND (0.24)
4-Nitrophenol	µg/L	ND (6.6)	ND (6.6)	ND (8.0)	-	ND (7.3)	ND (7.3)
Acenaphthene	µg/L	ND (0.14)	ND (0.14)	ND (0.16)	-	ND (0.15)	ND (0.15)
Acenaphthylene	µg/L	ND (0.080)	ND (0.080)	ND (0.096)	-	ND (0.088)	ND (0.088)
Acetophenone	µg/L	ND (0.21)	ND (0.21)	ND (0.25)	-	ND (0.23)	ND (0.23)
Semi-Volatile Organic Compounds (Cont'd.)							
Aniline	µg/L	ND (0.38)	ND (0.38)	ND (0.47)	-	ND (0.42)	ND (0.42)
Anthracene	µg/L	ND (0.98)	ND (0.98)	ND (1.2)	-	ND (1.1)	ND (1.1)
Atrazine	µg/L	ND (0.19)	ND (0.19)	ND (0.23)	-	ND (0.21)	ND (0.21)
Benzaldehyde	µg/L	ND (0.47)	ND (0.47)	ND (0.57)	-	ND (0.52)	ND (0.52)
Benzo(a)anthracene	µg/L	ND (0.17)	ND (0.17)	ND (0.20)	-	ND (0.18)	ND (0.18)
Benzo(a)pyrene	µg/L	ND (0.11)	ND (0.11)	ND (0.13)	-	ND (0.12)	ND (0.12)
Benzo(b)fluoranthene	µg/L	ND (0.15)	ND (0.15)	ND (0.19)	-	ND (0.17)	ND (0.17)
Benzo(g,h,i)perylene	µg/L	ND (0.081)	ND (0.081)	ND (0.099)	-	ND (0.090)	ND (0.090)
Benzo(k)fluoranthene	µg/L	ND (0.15)	ND (0.15)	ND (0.19)	-	ND (0.17)	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-27-S*	*MW-27-S*	*MW-28-D*	*MW-28-D*	*MW-28-I*	*MW-28-S*
	Sample ID:	*GW-15620-072109-RW-48*	*GW-15620-072109-RW-50*	*GW-15620-070809-RR-049*	*GW-15620-070909-RR-049*	*GW-15620-070709-RR-047*	*GW-15620-070709-RR-045*
	Sample Date:	*7/21/2009*	*7/21/2009*	*7/8/2009*	*7/9/2009*	*7/7/2009*	*7/7/2009*
			Duplicate				
Parameter	*Units*						
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.14)	ND (0.14)	ND (0.18)	-	ND (0.16)	ND (0.16)
bis(2-Chloroethoxy)methane	µg/L	ND (0.13)	ND (0.13)	ND (0.16)	-	ND (0.14)	ND (0.14)
bis(2-Chloroethyl)ether	µg/L	ND (0.25)	ND (0.25)	ND (0.30)	-	ND (0.27)	ND (0.27)
bis(2-Ethylhexyl)phthalate	µg/L	ND (0.43)	4.7 J	ND (0.53)	-	ND (0.48)	ND (0.48)
Butyl benzylphthalate	µg/L	ND (2.9)	ND (2.9)	ND (3.5)	-	ND (3.2)	ND (3.2)
Caprolactam	µg/L	ND (6.8)	ND (6.8)	ND (8.2)	-	ND (7.5)	ND (7.5)
Carbazole	µg/L	ND (0.13)	ND (0.13)	ND (0.16)	-	ND (0.14)	ND (0.14)
Chrysene	µg/L	ND (0.10)	ND (0.10)	ND (0.12)	-	ND (0.11)	ND (0.11)
Dibenz(a,h)anthracene	µg/L	ND (0.12)	ND (0.12)	ND (0.15)	-	ND (0.13)	ND (0.13)
Dibenzofuran	µg/L	ND (0.17)	ND (0.17)	ND (0.21)	-	ND (0.19)	ND (0.19)
Diethyl phthalate	µg/L	ND (0.42)	ND (0.42)	ND (0.51)	-	ND (0.47)	ND (0.47)
Dimethyl phthalate	µg/L	ND (0.13)	ND (0.13)	ND (0.16)	-	ND (0.15)	ND (0.15)
Di-n-butylphthalate	µg/L	ND (0.28)	ND (0.28)	ND (0.34)	-	ND (0.31)	ND (0.31)
Di-n-octyl phthalate	µg/L	ND (0.15)	ND (0.15)	ND (0.18)	-	ND (0.16)	ND (0.16)
Fluoranthene	µg/L	ND (0.094)	ND (0.094)	ND (0.11)	-	ND (0.10)	ND (0.10)
Fluorene	µg/L	ND (0.093)	ND (0.093)	ND (0.11)	-	ND (0.10)	ND (0.10)
Hexachlorobenzene	µg/L	ND (0.17)	ND (0.17)	ND (0.21)	-	ND (0.19)	ND (0.19)
Hexachlorobutadiene	µg/L	ND (0.11)	ND (0.11)	ND (0.14)	-	ND (0.13)	ND (0.13)
Hexachlorocyclopentadiene	µg/L	ND (0.11)	ND (0.11)	ND (0.13)	-	ND (0.12)	ND (0.12)
Hexachloroethane	µg/L	ND (0.072)	ND (0.072)	ND (0.087)	-	ND (0.080)	ND (0.080)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.15)	ND (0.15)	ND (0.18)	-	ND (0.17)	ND (0.17)
Isophorone	µg/L	ND (0.27)	ND (0.27)	ND (0.33)	-	ND (0.30)	ND (0.30)
Naphthalene	µg/L	ND (0.26)	ND (0.26)	ND (0.32)	-	0.64 J	ND (0.29)
Nitrobenzene	µg/L	ND (0.17)	ND (0.17)	45	-	35	ND (0.19)
N-Nitrosodi-n-propylamine	µg/L	ND (0.36)	ND (0.36)	ND (0.44)	-	ND (0.40)	ND (0.40)
N-Nitrosodiphenylamine	µg/L	ND (0.46)	ND (0.46)	ND (0.56)	-	ND (0.51)	ND (0.51)
Pentachlorophenol	µg/L	ND (1.8)	ND (1.8)	ND (2.1)	-	ND (2.0)	ND (2.0)
Phenanthrene	µg/L	ND (0.27)	ND (0.27)	ND (0.32)	-	ND (0.30)	ND (0.30)
Phenol	µg/L	ND (0.22)	ND (0.22)	ND (0.27)	-	ND (0.25)	ND (0.25)
Pyrene	µg/L	ND (0.10)	ND (0.10)	ND (0.13)	-	ND (0.12)	ND (0.12)
Metals							
Aluminum	µg/L	752	678	ND (38.8)	-	ND (9.7)	640
Aluminum (Dissolved)	µg/L	ND (18.0)	ND (16.9)	ND (19.6)	-	ND (33.9)	579
Antimony	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	-	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	1.4 J	1.4 J	ND (1.3)	-	ND (1.3)	ND (1.3)
Arsenic	µg/L	17.6	16.4	3.0 J	-	ND (2.7)	ND (2.7)
Arsenic (Dissolved)	µg/L	18.4	19.0	2.8 J	-	ND (2.7)	ND (2.7)
Barium	µg/L	10.4 J	9.9 J	36.5 J	-	22.5 J	14.2 J
Barium (Dissolved)	µg/L	6.6 J	6.3 J	35.7 J	-	21.5 J	15.8 J
Beryllium	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	-	ND (0.37)	ND (0.55)
Beryllium (Dissolved)	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	-	ND (0.43)	ND (0.46)
Cadmium	µg/L	ND (0.70)	ND (0.65)	ND (0.13)	-	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	µg/L	ND (0.79)	ND (0.82)	ND (0.13)	-	ND (0.13)	ND (0.13)
Calcium	µg/L	10100	9570	136000	-	18600	1900 J
Calcium (Dissolved)	µg/L	11200	10900	137000	-	18200	2480 J

TABLE 3

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ZENECA, INC.
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JUNE TO AUGUST 2009

	Sample Location:	*MW-27-S*	*MW-27-S*	*MW-28-D*	*MW-28-D*	*MW-28-I*	*MW-28-S*
	Sample ID:	*GW-15620-072109-RW-48*	*GW-15620-072109-RW-50*	*GW-15620-070809-RR-049*	*GW-15620-070909-RR-049*	*GW-15620-070709-RR-047*	*GW-15620-070709-RR-045*
	Sample Date:	*7/21/2009*	*7/21/2009*	*7/8/2009*	*7/9/2009*	*7/7/2009*	*7/7/2009*
			Duplicate				
Parameter	*Units*						
Chromium	µg/L	ND (0.89)	ND (0.57)	ND (0.57) J	-	ND (1.7)	ND (0.81)
Chromium Total (Dissolved)	µg/L	ND (0.57)	ND (0.57)	ND (0.57) J	-	ND (0.76)	ND (0.73)
Cobalt	µg/L	ND (3.6)	ND (3.4)	1.1 J	-	10.1 J	12.3 J
Cobalt (Dissolved)	µg/L	4.3 J	ND (3.9)	1.5 J	-	9.5 J	11.0 J
Copper	µg/L	ND (2.7)	ND (2.7)	15.2 J	-	ND (2.7)	ND (2.7)
Copper (Dissolved)	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	-	ND (2.7)	ND (2.7)
Iron	µg/L	2180	1980	255	-	199	80.4 J
Iron (Dissolved)	µg/L	2040	1950	61.2 J	-	66.0 J	70.2 J
Lead	µg/L	ND (2.5)	ND (3.6)	1.6 J	-	1.6 J	ND (1.3)
Lead (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	-	ND (1.3)	ND (1.3)
Magnesium	µg/L	3100 J	2890 J	26000	-	4580 J	1100 J
Magnesium (Dissolved)	µg/L	3480 J	3330 J	26400	-	4530 J	1200 J
Manganese	µg/L	952 J	900	1070	-	3670	2250
Manganese (Dissolved)	µg/L	1200 J	1150	1070	-	3560	2140
Mercury	µg/L	0.056 J	0.061 J	ND (0.038)	-	ND (0.038)	ND (0.038)
Mercury (Dissolved)	µg/L	0.050 J	0.043 J	ND (0.038)	-	ND (0.038)	ND (0.038)
Nickel	µg/L	1.9 J	1.9 J	ND (1.6)	-	ND (8.5)	ND (4.6)
Nickel (Dissolved)	µg/L	ND (1.6)	ND (1.6)	ND (1.6)	-	ND (7.8)	ND (4.1)
Potassium	µg/L	5110	4770 J	2990 J	-	3090 J	ND (950)
Potassium (Dissolved)	µg/L	3950 J	3860 J	3020 J	-	3040 J	ND (955)
Selenium	µg/L	ND (3.0)	ND (3.0)	ND (3.0) J	-	ND (3.0)	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0)	ND (3.0)	ND (3.0) J	-	ND (3.0)	ND (3.0)
Silver	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	-	0.94 J	ND (0.68)
Silver (Dissolved)	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	-	0.78 J	ND (0.68)
Metals (Cont'd.)							
Sodium	µg/L	22400	21100	412000	-	68700	7760 J
Sodium (Dissolved)	µg/L	23900	23200	417000	-	67400	10700 J
Thallium	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	-	ND (2.4)	ND (2.4)
Thallium (Dissolved)	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	-	ND (2.4)	ND (2.4)
Vanadium	µg/L	ND (1.9)	ND (1.9)	ND (1.9)	-	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	µg/L	ND (1.9)	ND (1.9)	ND (1.9)	-	ND (1.9)	ND (1.9)
Zinc	µg/L	47.9	45.1	ND (14.7)	-	10.1 J	50.3
Zinc (Dissolved)	µg/L	40.2	38.7	ND (5.4)	-	13.2 J	49.1
Polychlorinated Biphenyls							
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0024)	ND (0.0024)	ND (0.0025)	-	ND (0.0025)	ND (0.0024)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0024)	ND (0.0024)	ND (0.0024)	-	ND (0.0025)	ND (0.0024)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0028)	ND (0.0028)	ND (0.0029)	-	ND (0.0029)	ND (0.0028)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0018)	ND (0.0018)	ND (0.0018)	-	ND (0.0019)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	0.032	0.024	ND (0.0022)	-	ND (0.0023)	ND (0.0022)
Aroclor-1254 (PCB-1254)	µg/L	0.034	ND (0.0022)	ND (0.0022)	-	ND (0.0023)	ND (0.0022)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0013)	ND (0.0013)	ND (0.0013)	-	ND (0.0014)	ND (0.0013)
Gases							
Carbon dioxide	µg/L	7000	7600	1400	-	26000	20000

TABLE 3

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JUNE TO AUGUST 2009

	Sample Location:	*MW-27-S*	*MW-27-S*	*MW-28-D*	*MW-28-D*	*MW-28-I*	*MW-28-S*
	Sample ID:	*GW-15620-072109-RW-48*	*GW-15620-072109-RW-50*	*GW-15620-070809-RR-049*	*GW-15620-070909-RR-049*	*GW-15620-070709-RR-047*	*GW-15620-070709-RR-045*
	Sample Date:	*7/21/2009*	*7/21/2009*	*7/8/2009*	*7/9/2009*	*7/7/2009*	*7/7/2009*
			Duplicate				
Parameter	*Units*						
General Chemistry							
Alkalinity, Total (as CaCO3)	mg/L	38.5	37.6	-	126	50.0	ND (2.4)
Ammonia	mg/L	0.98	0.97	0.50	-	0.63	0.28
Chloride	mg/L	38.6	38.8	-	638	101	9.4
Dissolved Organic Carbon (DOC), Dissolved	mg/L	6.9	6.2	0.91 J	-	1.7	-
Nitrate (as N)	mg/L	0.37	0.38	-	ND (0.0077)	1.9	0.055
Nitrite (as N)	mg/L	ND (0.0032)	ND (0.0032)	-	0.31	0.20	ND (0.0032)
Sulfate	mg/L	3.8	4.0	-	147	26.3	13.8

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-28-S*	*MW-29-D*	*MW-29-D*	*MW-29-I*	*MW-29-I*	*MW-29-S*
	Sample ID:	*GW-15620-070909-DS-045*	*GW-15620-072109-RR-069*	*GW-15620-072109-RW-69*	*GW-15620-072109-RR-067*	*GW-15620-072109-RW-67*	*GW-15620-072009-RR-065*
	Sample Date:	*7/9/2009*	*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/20/2009*
Parameter	*Units*						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	-	ND (0.29)	-	ND (0.29)	-	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	-	ND (0.20)	-	ND (0.20)	-	ND (0.20)
1,1,2-Trichloroethane	µg/L	-	ND (0.20)	-	ND (0.20)	-	ND (0.20)
1,1-Dichloroethane	µg/L	-	ND (0.12)	-	ND (0.12)	-	ND (0.12)
1,1-Dichloroethene	µg/L	-	ND (0.30)	-	ND (0.30)	-	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	-	ND (0.15)	-	ND (0.15)	-	ND (0.15)
1,2,4-Trichlorobenzene	µg/L	-	ND (0.27)	-	ND (0.27)	-	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	ND (0.14)	-	ND (0.14)	-	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	-	ND (0.18)	-	ND (0.18)	-	ND (0.18)
1,2-Dichlorobenzene	µg/L	-	ND (0.15)	-	ND (0.15)	-	ND (0.15)
1,2-Dichloroethane	µg/L	-	ND (0.21)	-	ND (0.21)	-	ND (0.21)
1,2-Dichloropropane	µg/L	-	ND (0.095)	-	ND (0.095)	-	ND (0.095)
1,3-Dichlorobenzene	µg/L	-	ND (0.11)	-	ND (0.11)	-	ND (0.11)
1,4-Dichlorobenzene	µg/L	-	ND (0.21)	-	ND (0.21)	-	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	µg/L	-	ND (0.55)	-	ND (0.55)	-	ND (0.55)
2-Hexanone	µg/L	-	ND (0.16)	-	ND (0.16)	-	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	ND (0.53)	-	ND (0.53)	-	ND (0.53)
Acetone	µg/L	-	ND (2.5)	-	ND (2.5)	-	ND (2.5)
Benzene	µg/L	-	ND (0.11)	-	ND (0.11)	-	ND (0.11)
Bromodichloromethane	µg/L	-	ND (0.13)	-	ND (0.13)	-	ND (0.13)
Bromoform	µg/L	-	ND (0.19)	-	ND (0.19)	-	ND (0.19)
Bromomethane (Methyl Bromide)	µg/L	-	ND (0.31) J	-	ND (0.31)	-	ND (0.31)
Carbon disulfide	µg/L	-	ND (0.21)	-	ND (0.21)	-	ND (0.21)
Carbon tetrachloride	µg/L	-	ND (0.14)	-	ND (0.14)	-	ND (0.14)
Chlorobenzene	µg/L	-	ND (0.14)	-	ND (0.14)	-	ND (0.14)
Chloroethane	µg/L	-	ND (0.21)	-	ND (0.21)	-	ND (0.21)
Chloroform (Trichloromethane)	µg/L	-	ND (0.17)	-	ND (0.17)	-	ND (0.17)
Chloromethane (Methyl Chloride)	µg/L	-	ND (0.28)	-	ND (0.28)	-	ND (0.28)
cis-1,2-Dichloroethene	µg/L	-	ND (0.24)	-	ND (0.24)	-	ND (0.24)
cis-1,3-Dichloropropene	µg/L	-	ND (0.19)	-	ND (0.19)	-	ND (0.19)
Cyclohexane	µg/L	-	ND (0.25)	-	ND (0.25)	-	ND (0.25)
Dibromochloromethane	µg/L	-	ND (0.14)	-	ND (0.14)	-	ND (0.14)
Dichlorodifluoromethane (CFC-12)	µg/L	-	ND (0.19) J	-	ND (0.19)	-	ND (0.19)
Ethylbenzene	µg/L	-	ND (0.23)	-	ND (0.23)	-	ND (0.23)
Isopropylbenzene	µg/L	-	ND (0.16)	-	ND (0.16)	-	ND (0.16)
Methyl acetate	µg/L	-	ND (0.14)	-	ND (0.14)	-	ND (0.14)
Methyl cyclohexane	µg/L	-	ND (0.26)	-	ND (0.26)	-	ND (0.26)
Methyl Tert Butyl Ether	µg/L	-	ND (0.18)	-	ND (0.18)	-	ND (0.18)
Methylene chloride	µg/L	-	ND (0.15)	-	ND (0.15)	-	ND (0.15)
Volatile Organic Compounds (Cont'd.)							
Styrene	µg/L	-	ND (0.097)	-	ND (0.097)	-	ND (0.097)
Tetrachloroethene	µg/L	-	ND (0.15)	-	ND (0.15)	-	ND (0.15)
Toluene	µg/L	-	ND (0.15)	-	0.15 J	-	ND (0.15)
trans-1,2-Dichloroethene	µg/L	-	ND (0.17)	-	ND (0.17)	-	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-28-S*	*MW-29-D*	*MW-29-D*	*MW-29-I*	*MW-29-I*	*MW-29-S*
	Sample ID:	*GW-15620-070909-DS-045*	*GW-15620-072109-RR-069*	*GW-15620-072109-RW-69*	*GW-15620-072109-RR-067*	*GW-15620-072109-RW-67*	*GW-15620-072009-RR-065*
	Sample Date:	*7/9/2009*	*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/20/2009*
Parameter	*Units*						
trans-1,3-Dichloropropene	µg/L	-	ND (0.15)	-	ND (0.15)	-	ND (0.15)
Trichloroethene	µg/L	-	ND (0.14)	-	ND (0.14)	-	ND (0.14)
Trichlorofluoromethane (CFC-11)	µg/L	-	ND (0.20) J	-	ND (0.20)	-	ND (0.20)
Trifluorotrichloroethane (Freon 113)	µg/L	-	ND (0.32)	-	ND (0.32)	-	ND (0.32)
Vinyl chloride	µg/L	-	ND (0.23)	-	ND (0.23)	-	ND (0.23)
Xylene (total)	µg/L	-	ND (0.49)	-	ND (0.49)	-	ND (0.49)
Semi-Volatile Organic Compounds							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	-	ND (0.35)	-	ND (0.34)	-	ND (0.33)
2,4,5-Trichlorophenol	µg/L	-	ND (0.15)	-	ND (0.15)	-	ND (0.14)
2,4,6-Trichlorophenol	µg/L	-	ND (0.092)	-	ND (0.089)	-	ND (0.086)
2,4-Dichlorophenol	µg/L	-	ND (0.14)	-	ND (0.13)	-	ND (0.13)
2,4-Dimethylphenol	µg/L	-	ND (0.081)	-	ND (0.079)	-	ND (0.076)
2,4-Dinitrophenol	µg/L	-	ND (6.2)	-	ND (6.0)	-	ND (5.8)
2,4-Dinitrotoluene	µg/L	-	ND (0.17)	-	ND (0.16)	-	ND (0.16)
2,6-Dinitrotoluene	µg/L	-	ND (0.19)	-	ND (0.19)	-	ND (0.18)
2-Chloronaphthalene	µg/L	-	ND (0.15)	-	ND (0.15)	-	ND (0.14)
2-Chlorophenol	µg/L	-	ND (0.21)	-	ND (0.21)	-	ND (0.20)
2-Methylnaphthalene	µg/L	-	ND (0.16)	-	ND (0.15)	-	ND (0.15)
2-Methylphenol	µg/L	-	ND (0.14)	-	ND (0.14)	-	ND (0.13)
2-Nitroaniline	µg/L	-	ND (0.17)	-	ND (0.16)	-	ND (0.16)
2-Nitrophenol	µg/L	-	ND (0.14)	-	ND (0.14)	-	ND (0.13)
3,3'-Dichlorobenzidine	µg/L	-	ND (0.37)	-	ND (0.35)	-	ND (0.34)
3-Nitroaniline	µg/L	-	ND (0.26)	-	ND (0.25)	-	ND (0.25)
4,6-Dinitro-2-methylphenol	µg/L	-	ND (7.9)	-	ND (7.6)	-	ND (7.4)
4-Bromophenyl phenyl ether	µg/L	-	ND (0.19)	-	ND (0.18)	-	ND (0.18)
4-Chloro-3-methylphenol	µg/L	-	ND (0.26)	-	ND (0.25)	-	ND (0.24)
4-Chloroaniline	µg/L	-	ND (1.1)	-	ND (1.1)	-	ND (1.0)
4-Chlorophenyl phenyl ether	µg/L	-	ND (0.11)	-	ND (0.10)	-	ND (0.099)
4-Methylphenol	µg/L	-	ND (0.18)	-	ND (0.17)	-	ND (0.17)
4-Nitroaniline	µg/L	-	ND (0.23)	-	ND (0.22)	-	ND (0.22)
4-Nitrophenol	µg/L	-	ND (7.1)	-	ND (6.9)	-	ND (6.7)
Acenaphthene	µg/L	-	ND (0.15)	-	ND (0.14)	-	ND (0.14)
Acenaphthylene	µg/L	-	ND (0.085)	-	ND (0.083)	-	ND (0.080)
Acetophenone	µg/L	-	ND (0.22)	-	ND (0.22)	-	ND (0.21)
Semi-Volatile Organic Compounds (Cont'd.)							
Aniline	µg/L	-	ND (0.41)	-	ND (0.40)	-	ND (0.39)
Anthracene	µg/L	-	ND (1.0)	-	ND (1.0)	-	ND (0.99)
Atrazine	µg/L	-	ND (0.20)	-	ND (0.20)	-	ND (0.19)
Benzaldehyde	µg/L	-	ND (0.51)	-	ND (0.49)	-	ND (0.48)
Benzo(a)anthracene	µg/L	-	ND (0.18)	-	ND (0.17)	-	ND (0.17)
Benzo(a)pyrene	µg/L	-	ND (0.12)	-	ND (0.11)	-	ND (0.11)
Benzo(b)fluoranthene	µg/L	-	ND (0.16)	-	ND (0.16)	-	ND (0.15)
Benzo(g,h,i)perylene	µg/L	-	ND (0.087)	-	ND (0.085)	-	ND (0.082)
Benzo(k)fluoranthene	µg/L	-	ND (0.17)	-	ND (0.16)	-	ND (0.16)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-28-S*	*MW-29-D*	*MW-29-D*	*MW-29-I*	*MW-29-I*	*MW-29-S*
	Sample ID:	*GW-15620-070909-DS-045*	*GW-15620-072109-RR-069*	*GW-15620-072109-RW-69*	*GW-15620-072109-RR-067*	*GW-15620-072109-RW-67*	*GW-15620-072009-RR-065*
	Sample Date:	*7/9/2009*	*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/20/2009*
Parameter	***Units***						
Biphenyl (1,1-Biphenyl)	µg/L	-	ND (0.16)	-	ND (0.15)	-	ND (0.15)
bis(2-Chloroethoxy)methane	µg/L	-	ND (0.14)	-	ND (0.13)	-	ND (0.13)
bis(2-Chloroethyl)ether	µg/L	-	ND (0.27)	-	ND (0.26)	-	ND (0.25)
bis(2-Ethylhexyl)phthalate	µg/L	-	7.4 J	-	ND (0.45)	-	ND (0.44)
Butyl benzylphthalate	µg/L	-	ND (3.1)	-	ND (3.0)	-	ND (2.9)
Caprolactam	µg/L	-	ND (7.3)	-	ND (7.1)	-	ND (6.9)
Carbazole	µg/L	-	ND (0.14)	-	ND (0.13)	-	ND (0.13)
Chrysene	µg/L	-	ND (0.11)	-	ND (0.11)	-	ND (0.10)
Dibenz(a,h)anthracene	µg/L	-	ND (0.13)	-	ND (0.12)	-	ND (0.12)
Dibenzofuran	µg/L	-	ND (0.19)	-	ND (0.18)	-	ND (0.18)
Diethyl phthalate	µg/L	-	ND (0.45)	-	ND (0.44)	-	ND (0.43)
Dimethyl phthalate	µg/L	-	ND (0.14)	-	ND (0.14)	-	ND (0.13)
Di-n-butylphthalate	µg/L	-	ND (0.30)	-	ND (0.29)	-	ND (0.28)
Di-n-octyl phthalate	µg/L	-	ND (0.16)	-	ND (0.15)	-	ND (0.15)
Fluoranthene	µg/L	-	ND (0.10)	-	ND (0.098)	-	ND (0.095)
Fluorene	µg/L	-	ND (0.10)	-	ND (0.097)	-	ND (0.094)
Hexachlorobenzene	µg/L	-	ND (0.18)	-	ND (0.18)	-	ND (0.17)
Hexachlorobutadiene	µg/L	-	ND (0.12)	-	ND (0.12)	-	ND (0.12)
Hexachlorocyclopentadiene	µg/L	-	ND (0.12)	-	ND (0.11)	-	ND (0.11)
Hexachloroethane	µg/L	-	ND (0.077)	-	ND (0.075)	-	ND (0.073)
Indeno(1,2,3-cd)pyrene	µg/L	-	ND (0.16)	-	ND (0.16)	-	ND (0.15)
Isophorone	µg/L	-	ND (0.29)	-	ND (0.28)	-	ND (0.27)
Naphthalene	µg/L	-	ND (0.28)	-	ND (0.27)	-	ND (0.26)
Nitrobenzene	µg/L	-	ND (0.18)	-	ND (0.18)	-	ND (0.17)
N-Nitrosodi-n-propylamine	µg/L	-	ND (0.39)	-	ND (0.38)	-	ND (0.37)
N-Nitrosodiphenylamine	µg/L	-	ND (0.49)	-	ND (0.48)	-	ND (0.46)
Pentachlorophenol	µg/L	-	ND (1.9)	-	ND (1.8)	-	ND (1.8)
Phenanthrene	µg/L	-	ND (0.29)	-	ND (0.28)	-	ND (0.27)
Phenol	µg/L	-	ND (0.24)	-	ND (0.23)	-	ND (0.22)
Pyrene	µg/L	-	ND (0.11)	-	ND (0.11)	-	ND (0.11)
Metals							
Aluminum	µg/L	-	ND (9.7)	-	ND (12.5)	-	36.1 J
Aluminum (Dissolved)	µg/L	-	ND (18.9)	-	ND (13.6)	-	ND (9.7)
Antimony	µg/L	-	ND (1.3)	-	ND (1.3)	-	ND (1.3)
Antimony (Dissolved)	µg/L	-	ND (1.3)	-	ND (1.3)	-	ND (1.3)
Arsenic	µg/L	-	ND (2.7)	-	ND (2.7)	-	ND (2.7)
Arsenic (Dissolved)	µg/L	-	ND (2.7)	-	ND (2.7)	-	ND (2.7)
Barium	µg/L	-	36.1 J	-	8.1 J	-	10.7 J
Barium (Dissolved)	µg/L	-	37.0 J	-	8.7 J	-	10.5 J
Beryllium	µg/L	-	ND (0.23)	-	ND (0.23)	-	ND (0.23)
Beryllium (Dissolved)	µg/L	-	ND (0.23)	-	ND (0.23)	-	ND (0.23)
Cadmium	µg/L	-	ND (0.13)	-	ND (0.13)	-	ND (0.13)
Cadmium (Dissolved)	µg/L	-	ND (0.13)	-	ND (0.13)	-	ND (0.13)
Calcium	µg/L	-	56200	-	22700	-	20900
Calcium (Dissolved)	µg/L	-	57900	-	23900	-	20600

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-28-S*	*MW-29-D*	*MW-29-D*	*MW-29-I*	*MW-29-I*	*MW-29-S*
	Sample ID:	*GW-15620-070909-DS-045*	*GW-15620-072109-RR-069*	*GW-15620-072109-RW-69*	*GW-15620-072109-RR-067*	*GW-15620-072109-RW-67*	*GW-15620-072009-RR-065*
	Sample Date:	*7/9/2009*	*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/20/2009*
Parameter	***Units***						
Chromium	µg/L	-	ND (0.57)	-	ND (0.57)	-	ND (0.69)
Chromium Total (Dissolved)	µg/L	-	ND (0.57)	-	ND (0.57)	-	ND (0.57)
Cobalt	µg/L	-	ND (0.40)	-	ND (0.95)	-	0.69 J
Cobalt (Dissolved)	µg/L	-	ND (0.40)	-	ND (1.1)	-	0.82 J
Copper	µg/L	-	ND (2.7)	-	ND (2.7)	-	ND (2.7)
Copper (Dissolved)	µg/L	-	ND (2.7)	-	ND (2.7)	-	ND (2.7)
Iron	µg/L	-	ND (39.0)	-	ND (12.6)	-	795
Iron (Dissolved)	µg/L	-	37.8 J	-	ND (11.9)	-	626
Lead	µg/L	-	ND (1.3)	-	ND (1.3)	-	ND (1.3)
Lead (Dissolved)	µg/L	-	1.7 J	-	1.3 J	-	ND (1.3)
Magnesium	µg/L	-	3230 J	-	3430 J	-	3060 J
Magnesium (Dissolved)	µg/L	-	3370 J	-	3630 J	-	3000 J
Manganese	µg/L	-	392	-	ND (0.68)	-	143
Manganese (Dissolved)	µg/L	-	403	-	ND (0.68)	-	140
Mercury	µg/L	-	ND (0.038)	-	ND (0.038)	-	ND (0.038)
Mercury (Dissolved)	µg/L	-	ND (0.038)	-	ND (0.038)	-	ND (0.038)
Nickel	µg/L	-	ND (1.6)	-	ND (1.6)	-	ND (1.6)
Nickel (Dissolved)	µg/L	-	ND (1.6)	-	ND (1.6)	-	ND (1.6)
Potassium	µg/L	-	513 J	-	754 J	-	688 J
Potassium (Dissolved)	µg/L	-	431 J	-	653 J	-	ND (691)
Selenium	µg/L	-	ND (3.0)	-	ND (3.0)	-	ND (3.0)
Selenium (Dissolved)	µg/L	-	ND (3.0)	-	3.1 J	-	ND (3.0)
Silver	µg/L	-	ND (0.68)	-	ND (0.68)	-	ND (0.68)
Silver (Dissolved)	µg/L	-	ND (0.68)	-	ND (0.68)	-	ND (0.68)
Metals (Cont'd.)							
Sodium	µg/L	-	5530	-	6420	-	6550
Sodium (Dissolved)	µg/L	-	5640	-	6660	-	6300
Thallium	µg/L	-	ND (2.4)	-	ND (2.4)	-	2.8 J
Thallium (Dissolved)	µg/L	-	2.9 J	-	ND (2.4)	-	ND (4.1)
Vanadium	µg/L	-	ND (1.9)	-	ND (1.9)	-	ND (1.9)
Vanadium (Dissolved)	µg/L	-	ND (1.9)	-	ND (1.9)	-	ND (1.9)
Zinc	µg/L	-	2.7 J	-	2.6 J	-	ND (9.9)
Zinc (Dissolved)	µg/L	-	ND (2.5)	-	6.0 J	-	ND (10.9)
Polychlorinated Biphenyls							
Aroclor-1016 (PCB-1016)	µg/L	-	ND (0.0025)	-	ND (0.0025)	-	ND (0.0025)
Aroclor-1221 (PCB-1221)	µg/L	-	ND (0.0025)	-	ND (0.0025)	-	ND (0.0025)
Aroclor-1232 (PCB-1232)	µg/L	-	ND (0.0029)	-	ND (0.0029)	-	ND (0.0029)
Aroclor-1242 (PCB-1242)	µg/L	-	ND (0.0019)	-	ND (0.0019)	-	ND (0.0019)
Aroclor-1248 (PCB-1248)	µg/L	-	ND (0.0023)	-	ND (0.0023)	-	ND (0.0023)
Aroclor-1254 (PCB-1254)	µg/L	-	ND (0.0023)	-	ND (0.0023)	-	ND (0.0023)
Aroclor-1260 (PCB-1260)	µg/L	-	ND (0.0014)	-	ND (0.0014)	-	ND (0.0014)
Gases							
Carbon dioxide	µg/L	-	-	3600	-	13000	18000

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-28-S*	*MW-29-D*	*MW-29-D*	*MW-29-I*	*MW-29-I*	*MW-29-S*
	Sample ID:	*GW-15620-070909-DS-045*	*GW-15620-072109-RR-069*	*GW-15620-072109-RW-69*	*GW-15620-072109-RR-067*	*GW-15620-072109-RW-67*	*GW-15620-072009-RR-065*
	Sample Date:	*7/9/2009*	*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/21/2009*	*7/20/2009*
Parameter	*Units*						
General Chemistry							
Alkalinity, Total (as CaCO3)	mg/L	-	133	-	22.8	-	22.8
Ammonia	mg/L	-	0.15	-	0.20	-	0.19
Chloride	mg/L	-	11.4	-	20.8	-	15.8
Dissolved Organic Carbon (DOC), Dissolved	mg/L	5.6	1.2	-	0.73 J	-	ND (0.73)
Nitrate (as N)	mg/L	-	ND (0.0077)	-	3.0	-	3.1
Nitrite (as N)	mg/L	-	ND (0.0032)	-	ND (0.0032)	-	ND (0.0032)
Sulfate	mg/L	-	17.5	-	18.7	-	18.0

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-30-D*	*MW-30-S*	*MW-31-D*	*MW-31R-S*	*MW-32-I*
	Sample ID:	*GW-15620-072209-RW-070*	*GW-15620-072209-RW-072*	*GW-15620-070109-RR-035*	*GW-15620-072009-RR-062*	*GW-15620-072309-RW-84*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/1/2009*	*7/20/2009*	*7/23/2009*
Parameter	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)	ND (7.2)
1,1,2,2-Tetrachloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (5.0)
1,1,2-Trichloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (5.0)
1,1-Dichloroethane	µg/L	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)	ND (2.9)
1,1-Dichloroethene	µg/L	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (7.4)
1,2,3-Trichlorobenzene	µg/L	ND (0.15) J	ND (0.15) J	ND (0.15)	ND (0.15)	ND (3.9)
1,2,4-Trichlorobenzene	µg/L	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)	580
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (0.14) J	ND (0.14) J	ND (0.14)	ND (0.14)	ND (3.5)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (4.5)
1,2-Dichlorobenzene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	77
1,2-Dichloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (5.3)
1,2-Dichloropropane	µg/L	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)	ND (2.4)
1,3-Dichlorobenzene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	540
1,4-Dichlorobenzene	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	530
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (14)
2-Hexanone	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (4.0)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (13)
Acetone	µg/L	ND (2.5)	2.9 J	ND (2.5)	ND (2.5)	ND (62)
Benzene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (2.6)
Bromodichloromethane	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (3.2)
Bromoform	µg/L	ND (0.19) J	ND (0.19) J	ND (0.19)	ND (0.19)	ND (4.8)
Bromomethane (Methyl Bromide)	µg/L	ND (0.31) J	ND (0.31) J	ND (0.31)	ND (0.31)	ND (7.8)
Carbon disulfide	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (5.3)
Carbon tetrachloride	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (3.4)
Chlorobenzene	µg/L	0.16 J	0.16 J	ND (0.14)	ND (0.14)	640
Chloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	ND (5.4)
Chloroform (Trichloromethane)	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (4.3)
Chloromethane (Methyl Chloride)	µg/L	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)	ND (7.1)
cis-1,2-Dichloroethene	µg/L	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)	ND (5.9)
cis-1,3-Dichloropropene	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)	ND (4.7)
Cyclohexane	µg/L	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)	ND (6.4)
Dibromochloromethane	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (3.4)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (0.19)	ND (0.19)	ND (0.19) J	ND (0.19)	ND (4.8)
Ethylbenzene	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (5.7)
Isopropylbenzene	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)	ND (4.1)
Methyl acetate	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (3.4)
Methyl cyclohexane	µg/L	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)	ND (6.5)
Methyl Tert Butyl Ether	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (4.6)
Methylene chloride	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	9.9 J
Volatile Organic Compounds (Cont'd.)						
Styrene	µg/L	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)	ND (2.4)
Tetrachloroethene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (3.7)
Toluene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	0.24 J	ND (3.8)
trans-1,2-Dichloroethene	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)	ND (4.2)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-30-D*	*MW-30-S*	*MW-31-D*	*MW-31R-S*	*MW-32-I*
	Sample ID:	*GW-15620-072209-RW-070*	*GW-15620-072209-RW-072*	*GW-15620-070109-RR-035*	*GW-15620-072009-RR-062*	*GW-15620-072309-RW-84*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/1/2009*	*7/20/2009*	*7/23/2009*
Parameter	*Units*					
trans-1,3-Dichloropropene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)	ND (3.7)
Trichloroethene	µg/L	ND (0.22)	ND (0.23)	ND (0.14)	ND (0.14)	ND (3.6)
Trichlorofluoromethane (CFC-11)	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (5.0)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (8.0)
Vinyl chloride	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (5.7)
Xylene (total)	µg/L	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (12)
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.33)	ND (0.34)	ND (0.36)	ND (0.33)	ND (0.34)
2,4,5-Trichlorophenol	µg/L	ND (0.14)	ND (0.15)	ND (0.16)	ND (0.14)	1.4 J
2,4,6-Trichlorophenol	µg/L	ND (0.086)	ND (0.088)	ND (0.094)	ND (0.085)	ND (0.088)
2,4-Dichlorophenol	µg/L	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	5.9
2,4-Dimethylphenol	µg/L	ND (0.076)	ND (0.078)	ND (0.083)	ND (0.076)	ND (0.078)
2,4-Dinitrophenol	µg/L	ND (5.8)	ND (6.0)	ND (6.3)	ND (5.8)	ND (6.0)
2,4-Dinitrotoluene	µg/L	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)
2,6-Dinitrotoluene	µg/L	ND (0.18)	ND (0.19)	ND (0.20)	ND (0.18)	ND (0.19)
2-Chloronaphthalene	µg/L	ND (0.14)	ND (0.15)	ND (0.16)	ND (0.14)	12
2-Chlorophenol	µg/L	ND (0.20)	ND (0.20)	ND (0.22)	ND (0.20)	ND (0.20)
2-Methylnaphthalene	µg/L	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)
2-Methylphenol	µg/L	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.14)
2-Nitroaniline	µg/L	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)	ND (0.16)
2-Nitrophenol	µg/L	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.14)
3,3'-Dichlorobenzidine	µg/L	ND (0.34)	ND (0.35)	ND (0.37)	ND (0.34)	ND (0.35)
3-Nitroaniline	µg/L	ND (0.25)	ND (0.25)	ND (0.27)	ND (0.24)	ND (0.25)
4,6-Dinitro-2-methylphenol	µg/L	ND (7.4)	ND (7.6)	ND (8.0)	ND (7.3)	ND (7.6)
4-Bromophenyl phenyl ether	µg/L	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.18)	ND (0.18)
4-Chloro-3-methylphenol	µg/L	ND (0.24)	ND (0.25)	ND (0.26)	ND (0.24)	ND (0.25)
4-Chloroaniline	µg/L	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.0)	ND (1.1)
4-Chlorophenyl phenyl ether	µg/L	ND (0.099)	ND (0.10)	ND (0.11)	ND (0.098)	ND (0.10)
4-Methylphenol	µg/L	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)
4-Nitroaniline	µg/L	ND (0.22)	ND (0.22)	ND (0.23)	ND (0.21)	ND (0.22)
4-Nitrophenol	µg/L	ND (6.7)	ND (6.8)	ND (7.2)	ND (6.6)	ND (6.8)
Acenaphthene	µg/L	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)
Acenaphthylene	µg/L	ND (0.080)	ND (0.082)	ND (0.087)	ND (0.080)	ND (0.082)
Acetophenone	µg/L	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.21)	ND (0.21)
Semi-Volatile Organic Compounds (Cont'd.)						
Aniline	µg/L	ND (0.39)	ND (0.40)	ND (0.42)	ND (0.38)	ND (0.40)
Anthracene	µg/L	ND (0.99)	ND (1.0)	ND (1.1)	ND (0.98)	ND (1.0)
Atrazine	µg/L	ND (0.19)	ND (0.20)	ND (0.21)	ND (0.19)	ND (0.20)
Benzaldehyde	µg/L	ND (0.48)	ND (0.49)	ND (0.52)	ND (0.47)	ND (0.49)
Benzo(a)anthracene	µg/L	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)	ND (0.17)
Benzo(a)pyrene	µg/L	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)
Benzo(b)fluoranthene	µg/L	ND (0.15)	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.16)
Benzo(g,h,i)perylene	µg/L	ND (0.082)	ND (0.084)	ND (0.089)	ND (0.081)	ND (0.084)
Benzo(k)fluoranthene	µg/L	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.16)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-30-D*	*MW-30-S*	*MW-31-D*	*MW-31R-S*	*MW-32-I*
	Sample ID:	*GW-15620-072209-RW-070*	*GW-15620-072209-RW-072*	*GW-15620-070109-RR-035*	*GW-15620-072009-RR-062*	*GW-15620-072309-RW-84*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/1/2009*	*7/20/2009*	*7/23/2009*
Parameter	*Units*					
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.14)	ND (0.15)
bis(2-Chloroethoxy)methane	µg/L	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
bis(2-Chloroethyl)ether	µg/L	ND (0.25)	ND (0.26)	ND (0.27)	ND (0.25)	ND (0.26)
bis(2-Ethylhexyl)phthalate	µg/L	3.3 J	ND (0.45)	ND (0.48)	ND (0.43)	ND (0.45)
Butyl benzylphthalate	µg/L	ND (2.9)	ND (3.0)	ND (3.2)	ND (2.9)	ND (3.0)
Caprolactam	µg/L	ND (9.6)	ND (7.0)	ND (7.4)	7.7 J	ND (7.0)
Carbazole	µg/L	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
Chrysene	µg/L	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)	ND (0.10)
Dibenz(a,h)anthracene	µg/L	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.12)	ND (0.12)
Dibenzofuran	µg/L	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.17)	ND (0.18)
Diethyl phthalate	µg/L	1.0 J	1.2 J	ND (0.46)	24	ND (0.44)
Dimethyl phthalate	µg/L	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.13)	ND (0.14)
Di-n-butylphthalate	µg/L	ND (0.28)	ND (0.29)	ND (0.31)	ND (0.28)	ND (0.29)
Di-n-octyl phthalate	µg/L	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)	ND (0.15)
Fluoranthene	µg/L	ND (0.095)	ND (0.097)	ND (0.10)	ND (0.094)	ND (0.097)
Fluorene	µg/L	ND (0.094)	ND (0.096)	ND (0.10)	ND (0.093)	ND (0.096)
Hexachlorobenzene	µg/L	ND (0.17)	ND (0.18)	ND (0.19)	ND (0.17)	ND (0.18)
Hexachlorobutadiene	µg/L	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.11)	ND (0.12)
Hexachlorocyclopentadiene	µg/L	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.11)
Hexachloroethane	µg/L	ND (0.073)	ND (0.074)	ND (0.079)	ND (0.072)	ND (0.074)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.15)	ND (0.16)	ND (0.17)	ND (0.15)	ND (0.16)
Isophorone	µg/L	ND (0.27)	ND (0.28)	ND (0.30)	ND (0.27)	ND (0.28)
Naphthalene	µg/L	ND (0.26)	ND (0.27)	ND (0.29)	ND (0.26)	ND (0.27)
Nitrobenzene	µg/L	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)	ND (0.17)
N-Nitrosodi-n-propylamine	µg/L	ND (0.37)	ND (0.37)	ND (0.40)	ND (0.36)	ND (0.37)
N-Nitrosodiphenylamine	µg/L	ND (0.46)	ND (0.47)	ND (0.50)	ND (0.46)	ND (0.47)
Pentachlorophenol	µg/L	ND (1.8)	ND (1.8)	ND (1.9)	ND (1.8)	ND (1.8)
Phenanthrene	µg/L	ND (0.27)	ND (0.28)	ND (0.29)	ND (0.27)	ND (0.28)
Phenol	µg/L	ND (0.22)	ND (0.23)	ND (0.24)	ND (0.22)	ND (0.23)
Pyrene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)
Metals						
Aluminum	µg/L	ND (44.5)	164 J	ND (37.5)	776	10.4 J
Aluminum (Dissolved)	µg/L	ND (45.4)	ND (40.9)	ND (27.7)	ND (9.7)	ND (9.7)
Antimony	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	ND (1.3)	1.6 J	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	µg/L	ND (2.7)	9.1 J	11.5	17.9	128
Arsenic (Dissolved)	µg/L	ND (2.7)	8.0 J	11.7	13.5	97.3
Barium	µg/L	9.7 J	13.4 J	16.5 J	24.0 J	17.3 J
Barium (Dissolved)	µg/L	10.3 J	12.5 J	17.0 J	17.6 J	16.8 J
Beryllium	µg/L	ND (0.24)	ND (0.34)	ND (0.23)	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	µg/L	ND (0.28)	ND (0.41)	ND (0.23)	ND (0.23)	ND (0.23)
Cadmium	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)	ND (0.13)
Cadmium (Dissolved)	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	µg/L	19500	12900	32300	30200	23000
Calcium (Dissolved)	µg/L	19200	13800	33100	30000	23200

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-30-D*	*MW-30-S*	*MW-31-D*	*MW-31R-S*	*MW-32-I*
	Sample ID:	*GW-15620-072209-RW-070*	*GW-15620-072209-RW-072*	*GW-15620-070109-RR-035*	*GW-15620-072009-RR-062*	*GW-15620-072309-RW-84*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/1/2009*	*7/20/2009*	*7/23/2009*
Parameter	*Units*					
Chromium	µg/L	ND (0.57)	ND (0.65)	ND (0.57)	ND (1.6)	ND (0.57)
Chromium Total (Dissolved)	µg/L	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)	ND (0.57)
Cobalt	µg/L	ND (0.40)	2.1 J	ND (0.40)	1.2 J	ND (0.40)
Cobalt (Dissolved)	µg/L	ND (0.40)	2.1 J	ND (0.40)	0.97 J	ND (0.40)
Copper	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	5.7 J	ND (2.7)
Copper (Dissolved)	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Iron	µg/L	43.2 J	15000	2440	1200	9820
Iron (Dissolved)	µg/L	69.1 J	12800	2460	90.6 J	9020
Lead	µg/L	ND (1.3)	2.2 J	ND (1.3)	ND (1.3)	ND (1.3)
Lead (Dissolved)	µg/L	ND (1.4)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Magnesium	µg/L	3360 J	1070 J	3950 J	5640	5140
Magnesium (Dissolved)	µg/L	3360 J	1100 J	4060 J	5460	5180
Manganese	µg/L	16.4	515	1160	1240	1210
Manganese (Dissolved)	µg/L	18.5	469	1190	1210	1200
Mercury	µg/L	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Mercury (Dissolved)	µg/L	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	µg/L	ND (1.6)	1.6 J	1.8 J	2.1 J	ND (1.6)
Nickel (Dissolved)	µg/L	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)
Potassium	µg/L	ND (1080)	2540 J	903 J	1490 J	1640 J
Potassium (Dissolved)	µg/L	ND (925)	2450 J	940 J	1270 J	1600 J
Selenium	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	µg/L	ND (0.68)	0.79 J	ND (0.68)	ND (0.68)	ND (0.68)
Silver (Dissolved)	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Metals (Cont'd.)						
Sodium	µg/L	7220	2900 J	10200	14400	13000
Sodium (Dissolved)	µg/L	7210	2990 J	10400	14100	12600
Thallium	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
Thallium (Dissolved)	µg/L	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)	ND (2.4)
Vanadium	µg/L	ND (1.9)	ND (1.9)	ND (1.9)	2.9 J	ND (1.9)
Vanadium (Dissolved)	µg/L	ND (1.9)	2.1 J	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	µg/L	ND (13.6)	ND (18.3)	42.4	ND (16.4)	ND (2.5)
Zinc (Dissolved)	µg/L	ND (9.8)	ND (14.0)	4.7 J	ND (12.0)	ND (2.5)
Polychlorinated Biphenyls						
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0023)	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0017)	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	ND (0.0021)	ND (0.0022)	ND (0.0022)	ND (0.0022)	0.046
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)	0.056
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
Gases						
Carbon dioxide	µg/L	19000	26000	6500	3400	9200

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-30-D*	*MW-30-S*	*MW-31-D*	*MW-31R-S*	*MW-32-I*
	Sample ID:	*GW-15620-072209-RW-070*	*GW-15620-072209-RW-072*	*GW-15620-070109-RR-035*	*GW-15620-072009-RR-062*	*GW-15620-072309-RW-84*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/1/2009*	*7/20/2009*	*7/23/2009*
Parameter	*Units*					
General Chemistry						
Alkalinity, Total (as CaCO3)	mg/L	15.7	41.1	91.5	78.1	79.3
Ammonia	mg/L	ND (0.37)	ND (0.39)	0.068 J	0.14	0.44
Chloride	mg/L	20.5	1.2	21.0	21.7	13.0 J
Dissolved Organic Carbon (DOC), Dissolved	mg/L	1.8	3.0	2.3	ND (1.2)	ND (1.9)
Nitrate (as N)	mg/L	2.6	ND (0.0077)	ND (0.0077)	ND (0.0077)	ND (0.0077)
Nitrite (as N)	mg/L	0.037 J	ND (0.0032)	ND (0.0032)	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	19.5	4.5	4.0	30.0	12.3

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-33-S*	*MW-34-I*	*MW-35-S*	*MW-36-S*	*MW-37-I*	*MW-37-S*
	Sample ID:	*GW-15620-072709-RR-091*	*GW-15620-072309-RW-78*	*GW-15620-071009-RR-059*	*GW-15620-072309-RW-82*	*GW-15620-062409-RR-027*	*GW-15620-072309-RW-86*
	Sample Date:	*7/27/2009*	*7/23/2009*	*7/10/2009*	*7/23/2009*	*6/24/2009*	*7/23/2009*
Parameter	*Units*						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	ND (7.2)	ND (140)	ND (7.2)	ND (0.29)	ND (14)	ND (14)
1,1,2,2-Tetrachloroethane	µg/L	ND (5.0)	ND (100)	ND (5.0)	ND (0.20)	ND (10)	ND (10)
1,1,2-Trichloroethane	µg/L	ND (5.0)	ND (100)	ND (5.0)	ND (0.20)	ND (10)	ND (10)
1,1-Dichloroethane	µg/L	ND (2.9)	ND (58)	ND (2.9)	ND (0.12)	ND (5.8)	ND (5.8)
1,1-Dichloroethene	µg/L	ND (7.4)	ND (150)	ND (7.4)	ND (0.30)	ND (15)	ND (15)
1,2,3-Trichlorobenzene	µg/L	500	ND (77)	130	ND (0.15)	ND (7.7)	ND (7.7)
1,2,4-Trichlorobenzene	µg/L	1700	ND (140)	370	ND (0.27)	57	40 J
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (3.5)	ND (70)	ND (3.5)	ND (0.14)	ND (7.0)	ND (7.0)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (4.5)	ND (90)	ND (4.5)	ND (0.18)	ND (9.0)	ND (9.0)
1,2-Dichlorobenzene	µg/L	2600	220 J	170	ND (0.15)	240	68
1,2-Dichloroethane	µg/L	ND (5.3)	ND (110)	ND (5.3)	ND (0.21)	ND (11)	ND (11)
1,2-Dichloropropane	µg/L	ND (2.4)	ND (47)	ND (2.4)	ND (0.095)	ND (4.7)	ND (4.7)
1,3-Dichlorobenzene	µg/L	60	340 J	19 J	0.14 J	330	9.1 J
1,4-Dichlorobenzene	µg/L	580	1200	71	0.46 J	1000	31 J
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (14)	ND (270)	ND (14)	ND (0.55)	ND (27) J	ND (27)
2-Hexanone	µg/L	ND (4.0)	ND (80)	ND (4.0)	ND (0.16)	ND (8.0) J	ND (8.0)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (13)	ND (260)	ND (13)	ND (0.53)	ND (26) J	ND (26)
Acetone	µg/L	ND (62)	ND (1200)	ND (62)	ND (2.5)	ND (120)	ND (120)
Benzene	µg/L	7.0 J	230 J	ND (2.6)	ND (0.11)	ND (5.3)	11 J
Bromodichloromethane	µg/L	ND (3.2)	ND (65)	ND (3.2)	ND (0.13)	ND (6.5)	ND (6.5)
Bromoform	µg/L	ND (4.8)	ND (96)	ND (4.8) J	ND (0.19)	ND (9.6)	ND (9.6)
Bromomethane (Methyl Bromide)	µg/L	ND (7.8)	ND (160)	ND (7.8)	ND (0.31)	ND (16)	ND (16)
Carbon disulfide	µg/L	ND (5.3)	ND (110)	ND (5.3)	ND (0.21)	ND (11)	ND (11)
Carbon tetrachloride	µg/L	ND (3.4)	ND (68)	ND (3.4)	ND (0.14)	ND (6.8)	ND (6.8)
Chlorobenzene	µg/L	13000	15000 J	430	3.3	260	1100
Chloroethane	µg/L	ND (5.4)	ND (110)	ND (5.4)	ND (0.21)	ND (11)	ND (11)
Chloroform (Trichloromethane)	µg/L	ND (4.3)	ND (85)	ND (4.3)	ND (0.17)	ND (8.5)	ND (8.5)
Chloromethane (Methyl Chloride)	µg/L	ND (7.1)	ND (140)	ND (7.1)	ND (0.28)	ND (14)	ND (14)
cis-1,2-Dichloroethene	µg/L	ND (5.9)	ND (120)	ND (5.9)	ND (0.24)	ND (12)	ND (12)
cis-1,3-Dichloropropene	µg/L	ND (4.7)	ND (93)	ND (4.7)	ND (0.19)	ND (9.3)	ND (9.3)
Cyclohexane	µg/L	ND (6.4)	ND (130)	ND (6.4)	ND (0.25)	ND (13) J	ND (13)
Dibromochloromethane	µg/L	ND (3.4)	ND (68)	ND (3.4)	ND (0.14)	ND (6.8)	ND (6.8)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (4.8)	ND (96)	ND (4.8) J	ND (0.19)	ND (9.6)	ND (9.6)
Ethylbenzene	µg/L	15 J	ND (110)	ND (5.7)	ND (0.23)	ND (11)	ND (11)
Isopropylbenzene	µg/L	ND (4.1)	ND (82)	ND (4.1)	ND (0.16)	ND (8.2)	ND (8.2)
Methyl acetate	µg/L	ND (3.4)	ND (69)	ND (3.4)	ND (0.14)	ND (6.9)	ND (6.9)
Methyl cyclohexane	µg/L	ND (6.5)	ND (130)	ND (6.5)	ND (0.26)	ND (13)	ND (13)
Methyl Tert Butyl Ether	µg/L	ND (4.6)	ND (92)	ND (4.6)	0.49 J	ND (9.2)	ND (9.2)
Methylene chloride	µg/L	12 J	170 J	ND (3.7)	ND (0.15)	11 J	ND (7.5)
Volatile Organic Compounds (Cont'd.)							
Styrene	µg/L	ND (2.4)	ND (48)	ND (2.4)	ND (0.097)	ND (4.8)	ND (4.8)
Tetrachloroethene	µg/L	ND (3.7)	ND (74)	ND (3.7) J	ND (0.15)	ND (7.4)	ND (7.4)
Toluene	µg/L	6100	ND (75)	390	0.22 J	ND (7.5)	40 J
trans-1,2-Dichloroethene	µg/L	ND (4.2)	ND (85)	ND (4.2)	ND (0.17)	ND (8.5)	ND (8.5)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-33-S*	*MW-34-I*	*MW-35-S*	*MW-36-S*	*MW-37-I*	*MW-37-S*
	Sample ID:	*GW-15620-072709-RR-091*	*GW-15620-072309-RW-78*	*GW-15620-071009-RR-059*	*GW-15620-072309-RW-82*	*GW-15620-062409-RR-027*	*GW-15620-072309-RW-86*
	Sample Date:	*7/27/2009*	*7/23/2009*	*7/10/2009*	*7/23/2009*	*6/24/2009*	*7/23/2009*
Parameter	*Units*						
trans-1,3-Dichloropropene	µg/L	ND (3.7)	ND (74)	ND (3.7)	ND (0.15)	ND (7.4)	ND (7.4)
Trichloroethene	µg/L	ND (3.6)	ND (72)	ND (3.6)	ND (0.14)	ND (7.2)	ND (7.2)
Trichlorofluoromethane (CFC-11)	µg/L	ND (5.0)	ND (99)	ND (5.0)	ND (0.20)	ND (9.9)	ND (9.9)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (8.0)	ND (160)	ND (8.0)	ND (0.32)	ND (16)	ND (16)
Vinyl chloride	µg/L	ND (5.7)	ND (110)	ND (5.7)	ND (0.23)	ND (11)	ND (11)
Xylene (total)	µg/L	36 J	ND (240)	ND (12)	ND (0.49)	ND (24)	ND (24)
Semi-Volatile Organic Compounds							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (3.6)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.36)	ND (0.33)
2,4,5-Trichlorophenol	µg/L	ND (1.6)	ND (0.14)	2.1 J	ND (0.14)	ND (0.16)	ND (0.14)
2,4,6-Trichlorophenol	µg/L	ND (0.94)	ND (0.086)	ND (0.085)	ND (0.085)	ND (0.094)	ND (0.085)
2,4-Dichlorophenol	µg/L	ND (1.4)	2.0	1.8 J	ND (0.13)	ND (0.14)	ND (0.13)
2,4-Dimethylphenol	µg/L	ND (0.83)	ND (0.076)	ND (0.076)	ND (0.076)	ND (0.083)	ND (0.076)
2,4-Dinitrophenol	µg/L	680	ND (5.8)	ND (5.8)	ND (5.8)	ND (6.3)	ND (5.8)
2,4-Dinitrotoluene	µg/L	ND (1.7)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)
2,6-Dinitrotoluene	µg/L	ND (2.0)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.20)	ND (0.18)
2-Chloronaphthalene	µg/L	9.4 J	3.6	2.6	ND (0.14)	ND (0.16)	ND (0.14)
2-Chlorophenol	µg/L	27 J	R	1.2 J	ND (0.20)	ND (0.22)	22
2-Methylnaphthalene	µg/L	ND (1.6)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)
2-Methylphenol	µg/L	15 J	ND (0.13)	2.7 J	ND (0.13)	ND (0.14)	0.84 J
2-Nitroaniline	µg/L	ND (1.7)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.17)	ND (0.16)
2-Nitrophenol	µg/L	ND (1.4)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	2.3 J
3,3'-Dichlorobenzidine	µg/L	ND (3.7)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.37)	ND (0.34)
3-Nitroaniline	µg/L	ND (2.7)	ND (0.25)	ND (0.24)	ND (0.24)	ND (0.27)	ND (0.24)
4,6-Dinitro-2-methylphenol	µg/L	ND (80)	ND (7.4)	ND (7.3)	ND (7.3)	ND (8.0)	ND (7.3)
4-Bromophenyl phenyl ether	µg/L	ND (1.9)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.19)	ND (0.18)
4-Chloro-3-methylphenol	µg/L	ND (2.6)	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.26)	ND (0.24)
4-Chloroaniline	µg/L	ND (11)	3.9 J	ND (1.0)	ND (1.0)	ND (1.1)	ND (1.0)
4-Chlorophenyl phenyl ether	µg/L	ND (1.1)	ND (0.099)	ND (0.098)	ND (0.098)	ND (0.11)	ND (0.098)
4-Methylphenol	µg/L	16 J	ND (0.17)	4.6 J	ND (0.17)	ND (0.18)	ND (0.17)
4-Nitroaniline	µg/L	ND (2.3)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.21)
4-Nitrophenol	µg/L	ND (72)	ND (6.7)	ND (6.6)	ND (6.6)	ND (7.2)	ND (6.6)
Acenaphthene	µg/L	ND (1.5)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.15)	ND (0.14)
Acenaphthylene	µg/L	ND (0.87)	ND (0.080)	ND (0.080)	ND (0.080)	ND (0.087)	ND (0.080)
Acetophenone	µg/L	ND (2.3)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.23)	ND (0.21)
Semi-Volatile Organic Compounds (Cont'd.)							
Aniline	µg/L	2900	210	140	ND (0.38)	ND (0.42)	160
Anthracene	µg/L	ND (11)	ND (0.99)	ND (0.98)	ND (0.98)	ND (1.1)	ND (0.98)
Atrazine	µg/L	ND (2.1)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.21)	ND (0.19)
Benzaldehyde	µg/L	ND (5.2)	ND (0.48)	9.2 J	ND (0.47)	ND (0.52)	ND (0.47)
Benzo(a)anthracene	µg/L	ND (1.8)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.17)
Benzo(a)pyrene	µg/L	ND (1.2)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Benzo(b)fluoranthene	µg/L	ND (1.7)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)
Benzo(g,h,i)perylene	µg/L	ND (0.89)	ND (0.082)	ND (0.081)	ND (0.081)	ND (0.089)	ND (0.081)
Benzo(k)fluoranthene	µg/L	ND (1.7)	ND (0.16)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
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	Sample Location:	*MW-33-S*	*MW-34-I*	*MW-35-S*	*MW-36-S*	*MW-37-I*	*MW-37-S*
	Sample ID:	*GW-15620-072709-RR-091*	*GW-15620-072309-RW-78*	*GW-15620-071009-RR-059*	*GW-15620-072309-RW-82*	*GW-15620-062409-RR-027*	*GW-15620-072309-RW-86*
	Sample Date:	*7/27/2009*	*7/23/2009*	*7/10/2009*	*7/23/2009*	*6/24/2009*	*7/23/2009*
Parameter	*Units*						
Biphenyl (1,1-Biphenyl)	µg/L	ND (1.6)	0.20 J	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.14)
bis(2-Chloroethoxy)methane	µg/L	ND (1.4)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)
bis(2-Chloroethyl)ether	µg/L	ND (2.7)	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.27)	ND (0.25)
bis(2-Ethylhexyl)phthalate	µg/L	ND (4.8)	4.3 J	ND (0.43)	3.6 J	ND (0.48)	ND (0.43)
Butyl benzylphthalate	µg/L	ND (32)	ND (2.9)	ND (2.9)	ND (2.9)	ND (3.2)	ND (2.9)
Caprolactam	µg/L	ND (74)	ND (6.9)	ND (6.8)	9.9 J	ND (7.4)	ND (6.8)
Carbazole	µg/L	ND (1.4)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)
Chrysene	µg/L	ND (1.1)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Dibenz(a,h)anthracene	µg/L	ND (1.3)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.12)
Dibenzofuran	µg/L	ND (1.9)	ND (0.18)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)
Diethyl phthalate	µg/L	ND (4.6)	ND (0.43)	ND (0.42)	1.1 J	ND (0.46)	ND (0.42)
Dimethyl phthalate	µg/L	ND (1.4)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.14)	ND (0.13)
Di-n-butylphthalate	µg/L	ND (3.1)	ND (0.28)	ND (0.28)	2.0 J	ND (0.31)	ND (0.28)
Di-n-octyl phthalate	µg/L	ND (1.6)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.16)	ND (0.15)
Fluoranthene	µg/L	ND (1.0)	ND (0.095)	ND (0.094)	ND (0.094)	ND (0.10)	ND (0.094)
Fluorene	µg/L	ND (1.0)	ND (0.094)	ND (0.093)	ND (0.093)	ND (0.10)	ND (0.093)
Hexachlorobenzene	µg/L	ND (1.9)	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)	ND (0.17)
Hexachlorobutadiene	µg/L	ND (1.3)	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.13)	ND (0.11)
Hexachlorocyclopentadiene	µg/L	ND (1.2)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Hexachloroethane	µg/L	ND (0.79)	ND (0.073)	ND (0.072)	ND (0.072)	ND (0.079)	ND (0.072)
Indeno(1,2,3-cd)pyrene	µg/L	ND (1.7)	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)	ND (0.15)
Isophorone	µg/L	ND (3.0)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.30)	ND (0.27)
Naphthalene	µg/L	2200	12	99	ND (0.26)	3.3	0.35 J
Nitrobenzene	µg/L	15000	430	ND (0.17)	ND (0.17)	76	6100
N-Nitrosodi-n-propylamine	µg/L	ND (4.0)	ND (0.37)	ND (0.36)	ND (0.36)	ND (0.40)	ND (0.36)
N-Nitrosodiphenylamine	µg/L	ND (5.0)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.50)	ND (0.46)
Pentachlorophenol	µg/L	ND (19)	ND (1.8)	ND (1.8)	ND (1.8)	ND (1.9)	ND (1.8)
Phenanthrene	µg/L	ND (2.9)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.29)	ND (0.27)
Phenol	µg/L	ND (2.4)	ND (0.22) J	ND (0.22)	ND (0.22)	ND (0.24)	ND (0.22)
Pyrene	µg/L	ND (1.1)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.11)	ND (0.10)
Metals							
Aluminum	µg/L	2750	ND (293)	2680	ND (9.7)	ND (9.7)	51.5 J
Aluminum (Dissolved)	µg/L	1000	17.4 J	570	ND (9.7)	ND (9.7)	ND (9.7)
Antimony	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	µg/L	436	26.8	7.7 J	ND (2.7)	8.2 J	4.7 J
Arsenic (Dissolved)	µg/L	448	28.2	5.4 J	ND (2.7)	9.0 J	ND (2.7)
Barium	µg/L	36.6 J	70.3 J	41.3 J	2.1 J	6.5 J	49.7 J
Barium (Dissolved)	µg/L	38.4 J	73.0 J	41.0 J	1.6 J	6.6 J	45.3 J
Beryllium	µg/L	ND (0.73)	ND (0.23)	ND (2.8)	ND (0.23)	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	µg/L	ND (0.57)	ND (0.23)	ND (1.9)	ND (0.23)	ND (0.23)	ND (0.23)
Cadmium	µg/L	ND (0.74)	ND (0.41)	0.50 J	0.20 J	ND (0.13)	0.15 J
Cadmium (Dissolved)	µg/L	ND (0.67)	0.18 J	ND (0.13)	ND (0.16)	ND (0.13)	ND (0.13)
Calcium	µg/L	6800	27300	7270	8890	13000	34100
Calcium (Dissolved)	µg/L	6900	28300	8250	7980	13500	33200

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-33-S*	*MW-34-I*	*MW-35-S*	*MW-36-S*	*MW-37-I*	*MW-37-S*
	Sample ID:	*GW-15620-072709-RR-091*	*GW-15620-072309-RW-78*	*GW-15620-071009-RR-059*	*GW-15620-072309-RW-82*	*GW-15620-062409-RR-027*	*GW-15620-072309-RW-86*
	Sample Date:	*7/27/2009*	*7/23/2009*	*7/10/2009*	*7/23/2009*	*6/24/2009*	*7/23/2009*
Parameter	*Units*						
Chromium	µg/L	20.7	ND (0.57)	4.2 J	ND (0.57)	ND (0.57)	ND (0.57)
Chromium Total (Dissolved)	µg/L	17.4	ND (0.57)	2.7 J	ND (0.57)	ND (0.57)	ND (0.57)
Cobalt	µg/L	17.4 J	12.4 J	113	ND (0.40)	11.9 J	19.6 J
Cobalt (Dissolved)	µg/L	18.6 J	13.1 J	108	ND (0.40)	12.6 J	18.9 J
Copper	µg/L	173	28.3	294	ND (2.7)	ND (2.7)	ND (2.7)
Copper (Dissolved)	µg/L	9.7 J	ND (2.7)	17.8 J	ND (2.7)	ND (2.7)	ND (2.7)
Iron	µg/L	94400	47400	21600	45200	4040	617
Iron (Dissolved)	µg/L	97700	48600	21700	34600	4190	280
Lead	µg/L	37.8	ND (1.3)	5.0	ND (1.3)	ND (1.3)	1.9 J
Lead (Dissolved)	µg/L	2.2 J	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	1.4 J
Magnesium	µg/L	2660 J	8370	2130 J	2430 J	2410 J	13800
Magnesium (Dissolved)	µg/L	2800 J	8710	2510 J	2130 J	2540 J	13100
Manganese	µg/L	1120	2950	2400	580	4030	2210
Manganese (Dissolved)	µg/L	1180	3040	2820	476	4190	2160
Mercury	µg/L	0.22	0.22	6.9	ND (0.038)	ND (0.038)	ND (0.038)
Mercury (Dissolved)	µg/L	0.16 J	0.11 J	0.38	0.042 J	ND (0.038)	ND (0.038)
Nickel	µg/L	12.4 J	2.9 J	41.0	2.1 J	1.6 J	9.5 J
Nickel (Dissolved)	µg/L	13.4 J	2.4 J	38.8 J	1.7 J	1.6 J	8.2 J
Potassium	µg/L	3290 J	3900 J	3280 J	3300 J	1230 J	2710 J
Potassium (Dissolved)	µg/L	3240 J	3980 J	3730 J	3060 J	1370 J	1960 J
Selenium	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0) J	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0) J	ND (3.0)
Silver	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Silver (Dissolved)	µg/L	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Metals (Cont'd.)							
Sodium	µg/L	25400	60200	7290	8120	7940	64000
Sodium (Dissolved)	µg/L	26500	63100	8410	7030	8210	63300
Thallium	µg/L	2.7 J	6.1 J	ND (5.0)	ND (2.4)	4.7 J	2.7 J
Thallium (Dissolved)	µg/L	4.8 J	5.2 J	4.8 J	ND (2.4)	5.6 J	2.9 J
Vanadium	µg/L	3.0 J	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Vanadium (Dissolved)	µg/L	2.6 J	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	µg/L	ND (150)	5.9 J	254	11.4 J	5.3 J	6.9 J
Zinc (Dissolved)	µg/L	141	ND (2.5)	170	ND (2.5)	10.9 J	15.5 J
Polychlorinated Biphenyls							
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0024)	ND (0.0024)	ND (0.0025)	ND (0.0024)	ND (0.0025)	ND (0.0024)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0024)	ND (0.0024)	ND (0.0025)	ND (0.0024)	ND (0.0025)	ND (0.0024)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0028)	ND (0.0028)	ND (0.0029)	ND (0.0028)	ND (0.0029)	ND (0.0028)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0018)	ND (0.0018)	ND (0.0019)	ND (0.0018)	ND (0.0019)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	ND (0.0022)	ND (0.0022)	ND (0.0023)	0.012	ND (0.0023)	ND (0.0022)
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0022)	ND (0.0022)	0.30	ND (0.0022)	ND (0.0023)	ND (0.0022)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0013)	ND (0.0013)	ND (0.0014)	ND (0.0013)	ND (0.0014)	ND (0.0013)
Gases							
Carbon dioxide	µg/L	77000	39000	41000	32000	11000	52000

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-33-S*	*MW-34-I*	*MW-35-S*	*MW-36-S*	*MW-37-I*	*MW-37-S*
	Sample ID:	*GW-15620-072709-RR-091*	*GW-15620-072309-RW-78*	*GW-15620-071009-RR-059*	*GW-15620-072309-RW-82*	*GW-15620-062409-RR-027*	*GW-15620-072309-RW-86*
	Sample Date:	*7/27/2009*	*7/23/2009*	*7/10/2009*	*7/23/2009*	*6/24/2009*	*7/23/2009*
Parameter	*Units*						
General Chemistry							
Alkalinity, Total (as CaCO3)	mg/L	26.3	125	6.9	42.2	42.6	89.8
Ammonia	mg/L	11.1	4.0	3.1	2.1	0.71	0.68
Chloride	mg/L	34.5	91.8 J	9.9	5.1 J	8.7	130 J
Dissolved Organic Carbon (DOC), Dissolved	mg/L	29.0	5.5	7.7	3.6	1.7	9.1
Nitrate (as N)	mg/L	ND (0.0077)	ND (0.0077)	0.14	0.71	ND (0.0077)	ND (0.0077)
Nitrite (as N)	mg/L	0.038 J	0.10	0.17	ND (0.0032)	ND (0.0032)	0.13
Sulfate	mg/L	153	18.2	70.2	8.8	17.8	26.7

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-38-I*	*MW-38-I*	*MW-38-I*	*MW-38-S*	*MW-39-I*	*MW-39-S*
	Sample ID:	*GW-15620-070709-DS-024*	*GW-15620-070709-DS-026*	*GW-15620-072009-RW-26*	*GW-15620-070709-DS-028*	*GW-15620-070709-RR-041*	*GW-15620-070709-RR-043*
	Sample Date:	*7/7/2009*	*7/7/2009*	*7/20/2009*	*7/7/2009*	*7/7/2009*	*7/7/2009*
			Duplicate	*Field Replicate*			
Parameter	*Units*						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/L	ND (0.29)	ND (0.29)	-	ND (0.29)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	ND (0.20)	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	µg/L	ND (0.20)	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	µg/L	ND (0.12)	ND (0.12)	-	ND (0.12)	ND (0.12)	ND (0.12)
1,1-Dichloroethene	µg/L	ND (0.30)	ND (0.30)	-	ND (0.30)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	0.23 J	0.21 J	-	0.33 J	ND (0.15)	ND (0.15)
1,2,4-Trichlorobenzene	µg/L	0.62 J	0.73 J	-	1.0	0.33 J	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (0.14)	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (0.18)	ND (0.18)	-	ND (0.18)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	µg/L	0.34 J	0.40 J	-	1.8	1.2	ND (0.15)
1,2-Dichloroethane	µg/L	ND (0.21)	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	µg/L	ND (0.095)	ND (0.095)	-	ND (0.095)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	µg/L	0.44 J	0.40 J	-	0.58 J	0.46 J	ND (0.11)
1,4-Dichlorobenzene	µg/L	1.4	1.6	-	1.7	1.4	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (0.55)	ND (0.55)	-	ND (0.55)	ND (0.55)	ND (0.55)
2-Hexanone	µg/L	ND (0.16)	ND (0.16)	-	ND (0.16)	ND (0.16)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (0.53)	ND (0.53)	-	ND (0.53)	ND (0.53)	ND (0.53)
Acetone	µg/L	ND (2.5)	ND (2.5)	-	ND (2.5)	ND (2.5)	ND (2.5)
Benzene	µg/L	ND (0.11)	ND (0.11)	-	0.31 J	ND (0.11)	ND (0.11)
Bromodichloromethane	µg/L	0.19 J	0.18 J	-	ND (0.13)	1.9	ND (0.13)
Bromoform	µg/L	ND (0.19)	ND (0.19)	-	ND (0.19)	ND (0.19) J	ND (0.19)
Bromomethane (Methyl Bromide)	µg/L	ND (0.31)	ND (0.31)	-	ND (0.31)	ND (0.31)	ND (0.31)
Carbon disulfide	µg/L	ND (0.21)	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)
Carbon tetrachloride	µg/L	ND (0.14)	ND (0.14)	-	ND (0.14)	ND (0.14) J	ND (0.14)
Chlorobenzene	µg/L	0.25 J	0.27 J	-	6.5	8.7	0.54 J
Chloroethane	µg/L	ND (0.21)	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	µg/L	1.5	1.5	-	ND (0.17)	12	ND (0.17)
Chloromethane (Methyl Chloride)	µg/L	ND (0.28)	ND (0.28)	-	ND (0.28)	ND (0.28)	ND (0.28)
cis-1,2-Dichloroethene	µg/L	ND (0.24)	ND (0.24)	-	ND (0.24)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	µg/L	ND (0.19)	ND (0.19)	-	ND (0.19)	ND (0.19)	ND (0.19)
Cyclohexane	µg/L	ND (0.25)	ND (0.25)	-	ND (0.25)	ND (0.25)	ND (0.25)
Dibromochloromethane	µg/L	ND (0.14)	ND (0.14)	-	ND (0.14)	0.26 J	ND (0.14)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (0.19)	ND (0.19)	-	ND (0.19)	ND (0.19)	ND (0.19)
Ethylbenzene	µg/L	ND (0.23)	ND (0.23)	-	ND (0.23)	ND (0.23)	ND (0.23)
Isopropylbenzene	µg/L	ND (0.16)	ND (0.16)	-	ND (0.16)	ND (0.16)	ND (0.16)
Methyl acetate	µg/L	ND (0.14)	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.14)
Methyl cyclohexane	µg/L	ND (0.26)	ND (0.26)	-	ND (0.26)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	µg/L	0.28 J	0.29 J	-	ND (0.18)	0.42 J	ND (0.18)
Methylene chloride	µg/L	ND (0.15)	ND (0.15)	-	ND (0.15)	1.1	ND (0.15)
Volatile Organic Compounds (Cont'd.)							
Styrene	µg/L	ND (0.097)	ND (0.097)	-	ND (0.097)	ND (0.097)	ND (0.097)
Tetrachloroethene	µg/L	ND (0.15)	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)
Toluene	µg/L	ND (0.15)	ND (0.15)	-	ND (0.15)	0.19 J	ND (0.15)
trans-1,2-Dichloroethene	µg/L	ND (0.17)	ND (0.17)	-	ND (0.17)	ND (0.17)	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-38-I*	*MW-38-I*	*MW-38-I*	*MW-38-S*	*MW-39-I*	*MW-39-S*
	Sample ID:	*GW-15620-070709-DS-024*	*GW-15620-070709-DS-026*	*GW-15620-072009-RW-26*	*GW-15620-070709-DS-028*	*GW-15620-070709-RR-041*	*GW-15620-070709-RR-043*
	Sample Date:	*7/7/2009*	*7/7/2009*	*7/20/2009*	*7/7/2009*	*7/7/2009*	*7/7/2009*
			Duplicate	*Field Replicate*			
Parameter	*Units*						
trans-1,3-Dichloropropene	µg/L	ND (0.15)	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)
Trichloroethene	µg/L	ND (0.14)	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	µg/L	ND (0.20)	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (0.32)	ND (0.32)	-	ND (0.32)	ND (0.32)	ND (0.32)
Vinyl chloride	µg/L	ND (0.23)	ND (0.23)	-	ND (0.23)	ND (0.23)	ND (0.23)
Xylene (total)	µg/L	ND (0.49)	ND (0.49)	-	ND (0.49)	ND (0.49)	ND (0.49)
Semi-Volatile Organic Compounds							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.33)	-	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.37)
2,4,5-Trichlorophenol	µg/L	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.16)
2,4,6-Trichlorophenol	µg/L	ND (0.085)	-	ND (0.086)	ND (0.085)	ND (0.086)	ND (0.098)
2,4-Dichlorophenol	µg/L	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)
2,4-Dimethylphenol	µg/L	ND (0.076)	-	ND (0.076)	ND (0.076)	ND (0.076)	ND (0.087)
2,4-Dinitrophenol	µg/L	ND (5.8)	-	ND (5.8)	ND (5.8)	ND (5.8)	ND (6.6)
2,4-Dinitrotoluene	µg/L	ND (0.16)	-	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.18)
2,6-Dinitrotoluene	µg/L	ND (0.18)	-	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.21)
2-Chloronaphthalene	µg/L	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.16)
2-Chlorophenol	µg/L	ND (0.20)	-	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.23)
2-Methylnaphthalene	µg/L	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)
2-Methylphenol	µg/L	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)
2-Nitroaniline	µg/L	ND (0.16)	-	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.18)
2-Nitrophenol	µg/L	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)
3,3'-Dichlorobenzidine	µg/L	ND (0.34)	-	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.39)
3-Nitroaniline	µg/L	ND (0.24)	-	ND (0.25)	ND (0.24)	ND (0.25)	ND (0.28)
4,6-Dinitro-2-methylphenol	µg/L	ND (7.3)	-	ND (7.4)	ND (7.3)	ND (7.4)	ND (8.4)
4-Bromophenyl phenyl ether	µg/L	ND (0.18)	-	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.20)
4-Chloro-3-methylphenol	µg/L	ND (0.24)	-	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.27)
4-Chloroaniline	µg/L	ND (1.0)	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.2)
4-Chlorophenyl phenyl ether	µg/L	ND (0.098)	-	ND (0.099)	ND (0.098)	ND (0.099)	ND (0.11)
4-Methylphenol	µg/L	ND (0.17)	-	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)
4-Nitroaniline	µg/L	ND (0.21)	-	ND (0.22)	ND (0.21)	ND (0.22)	ND (0.25)
4-Nitrophenol	µg/L	ND (6.6)	-	ND (6.7)	ND (6.6)	ND (6.7)	ND (7.6)
Acenaphthene	µg/L	ND (0.14)	-	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.16)
Acenaphthylene	µg/L	ND (0.080)	-	ND (0.080)	ND (0.080)	ND (0.080)	ND (0.091)
Acetophenone	µg/L	ND (0.21)	-	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.24)
Semi-Volatile Organic Compounds (Cont'd.)							
Aniline	µg/L	ND (0.38)	-	ND (0.39)	ND (0.38)	ND (0.39)	ND (0.44)
Anthracene	µg/L	ND (0.98)	-	ND (0.99)	ND (0.98)	ND (0.99)	ND (1.1)
Atrazine	µg/L	ND (0.19)	-	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.22)
Benzaldehyde	µg/L	ND (0.47)	-	ND (0.48)	ND (0.47)	ND (0.48)	ND (0.54)
Benzo(a)anthracene	µg/L	ND (0.17)	-	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)
Benzo(a)pyrene	µg/L	ND (0.11)	-	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.13)
Benzo(b)fluoranthene	µg/L	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.18)
Benzo(g,h,i)perylene	µg/L	ND (0.081)	-	ND (0.082)	ND (0.081)	ND (0.082)	ND (0.094)
Benzo(k)fluoranthene	µg/L	ND (0.15)	-	ND (0.16)	ND (0.15)	ND (0.16)	ND (0.18)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-38-I*	*MW-38-I*	*MW-38-I*	*MW-38-S*	*MW-39-I*	*MW-39-S*
	Sample ID:	*GW-15620-070709-DS-024*	*GW-15620-070709-DS-026*	*GW-15620-072009-RW-26*	*GW-15620-070709-DS-028*	*GW-15620-070709-RR-041*	*GW-15620-070709-RR-043*
	Sample Date:	*7/7/2009*	*7/7/2009*	*7/20/2009*	*7/7/2009*	*7/7/2009*	*7/7/2009*
			Duplicate	*Field Replicate*			
Parameter	*Units*						
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.14)	-	ND (0.15)	ND (0.14)	ND (0.15)	ND (0.17)
bis(2-Chloroethoxy)methane	µg/L	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)
bis(2-Chloroethyl)ether	µg/L	ND (0.25)	-	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.28)
bis(2-Ethylhexyl)phthalate	µg/L	14	-	ND (0.44)	ND (0.43)	ND (0.44)	ND (0.50)
Butyl benzylphthalate	µg/L	ND (2.9)	-	ND (2.9)	ND (2.9)	ND (2.9)	ND (3.3)
Caprolactam	µg/L	ND (6.8)	-	ND (6.9)	ND (6.8)	ND (6.9)	ND (7.8)
Carbazole	µg/L	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)
Chrysene	µg/L	ND (0.10)	-	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.12)
Dibenz(a,h)anthracene	µg/L	ND (0.12)	-	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.14)
Dibenzofuran	µg/L	ND (0.17)	-	ND (0.18)	ND (0.17)	ND (0.18)	ND (0.20)
Diethyl phthalate	µg/L	ND (0.42)	-	ND (0.43)	ND (0.42)	1.0 J	ND (0.48)
Dimethyl phthalate	µg/L	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.15)
Di-n-butylphthalate	µg/L	ND (0.28)	-	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.32)
Di-n-octyl phthalate	µg/L	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)
Fluoranthene	µg/L	ND (0.094)	-	ND (0.095)	ND (0.094)	ND (0.095)	ND (0.11)
Fluorene	µg/L	ND (0.093)	-	ND (0.094)	ND (0.093)	ND (0.094)	ND (0.11)
Hexachlorobenzene	µg/L	ND (0.17)	-	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.20)
Hexachlorobutadiene	µg/L	ND (0.11)	-	ND (0.12)	ND (0.11)	ND (0.12)	ND (0.13)
Hexachlorocyclopentadiene	µg/L	ND (0.11)	-	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)
Hexachloroethane	µg/L	ND (0.072)	-	ND (0.073)	ND (0.072)	ND (0.073)	ND (0.083)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.15)	-	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.17)
Isophorone	µg/L	ND (0.27)	-	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.31)
Naphthalene	µg/L	ND (0.26)	-	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.30)
Nitrobenzene	µg/L	ND (0.17)	-	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.19)
N-Nitrosodi-n-propylamine	µg/L	ND (0.36)	-	ND (0.37)	ND (0.36)	ND (0.37)	ND (0.42)
N-Nitrosodiphenylamine	µg/L	ND (0.46)	-	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.53)
Pentachlorophenol	µg/L	ND (1.8)	-	ND (1.8)	ND (1.8)	ND (1.8)	ND (2.0)
Phenanthrene	µg/L	ND (0.27)	-	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.31)
Phenol	µg/L	ND (0.22)	-	ND (0.22)	ND (0.22)	ND (0.22)	ND (0.26)
Pyrene	µg/L	ND (0.10)	-	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.12)
Metals							
Aluminum	µg/L	ND (9.7)	ND (9.7)	-	ND (9.7)	ND (9.7)	212
Aluminum (Dissolved)	µg/L	ND (34.5)	ND (33.7)	-	ND (44.6)	ND (32.5)	ND (88.4)
Antimony	µg/L	ND (1.3)	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	ND (1.3)	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	µg/L	ND (2.7)	ND (2.7)	-	ND (2.7)	ND (2.7)	ND (2.7)
Arsenic (Dissolved)	µg/L	ND (2.7)	ND (2.7)	-	ND (2.7)	ND (2.7)	ND (2.7)
Barium	µg/L	19.4 J	19.5 J	-	25.6 J	8.0 J	26.8 J
Barium (Dissolved)	µg/L	19.4 J	19.1 J	-	23.8 J	8.2 J	25.3 J
Beryllium	µg/L	ND (0.48)	ND (0.39)	-	ND (0.37)	ND (0.41)	ND (0.44)
Beryllium (Dissolved)	µg/L	ND (0.45)	ND (0.50)	-	ND (0.42)	ND (0.45)	ND (0.42)
Cadmium	µg/L	0.16 J	0.16 J	-	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	µg/L	ND (0.13)	ND (0.13)	-	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	µg/L	11600	11600	-	24400	10400	2970 J
Calcium (Dissolved)	µg/L	11600	11400	-	23200	10900	2920 J

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-38-I*	*MW-38-I*	*MW-38-I*	*MW-38-S*	*MW-39-I*	*MW-39-S*
	Sample ID:	*GW-15620-070709-DS-024*	*GW-15620-070709-DS-026*	*GW-15620-072009-RW-26*	*GW-15620-070709-DS-028*	*GW-15620-070709-RR-041*	*GW-15620-070709-RR-043*
	Sample Date:	*7/7/2009*	*7/7/2009*	*7/20/2009*	*7/7/2009*	*7/7/2009*	*7/7/2009*
			Duplicate	*Field Replicate*			
Parameter	*Units*						
Chromium	µg/L	ND (0.66)	ND (0.57)	-	ND (0.80)	ND (0.57)	ND (0.57)
Chromium Total (Dissolved)	µg/L	ND (0.57)	ND (0.57)	-	ND (0.57)	ND (0.57)	ND (0.57)
Cobalt	µg/L	1.8 J	1.5 J	-	0.98 J	0.56 J	6.0 J
Cobalt (Dissolved)	µg/L	1.7 J	1.8 J	-	1.3 J	0.71 J	6.0 J
Copper	µg/L	ND (2.7)	ND (2.7)	-	3.2 J	ND (2.7)	ND (2.7)
Copper (Dissolved)	µg/L	ND (2.7)	ND (2.7)	-	ND (2.7)	ND (2.7)	ND (2.7)
Iron	µg/L	19.8 J	25.5 J	-	ND (96.1)	ND (11.9)	108
Iron (Dissolved)	µg/L	ND (11.9)	ND (11.9)	-	ND (11.9)	ND (11.9)	ND (11.9)
Lead	µg/L	ND (1.3)	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)
Lead (Dissolved)	µg/L	ND (1.3)	ND (1.3)	-	ND (1.3)	ND (1.3)	ND (1.3)
Magnesium	µg/L	2740 J	2730 J	-	4450 J	3440 J	3780 J
Magnesium (Dissolved)	µg/L	2760 J	2730 J	-	4240 J	3600 J	3790 J
Manganese	µg/L	685	684	-	630	345	591
Manganese (Dissolved)	µg/L	684	672	-	575	350	580
Mercury	µg/L	ND (0.038)	ND (0.038)	-	ND (0.038)	ND (0.038)	ND (0.038)
Mercury (Dissolved)	µg/L	ND (0.038)	ND (0.038)	-	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	µg/L	ND (3.2)	ND (3.5)	-	ND (6.1)	ND (3.0)	ND (3.0)
Nickel (Dissolved)	µg/L	ND (2.8)	ND (3.4)	-	ND (5.5)	ND (3.0)	ND (3.0)
Potassium	µg/L	3460 J	3490 J	-	3800 J	3470 J	4290 J
Potassium (Dissolved)	µg/L	3540 J	3500 J	-	3740 J	3640 J	4280 J
Selenium	µg/L	ND (3.0)	ND (3.0)	-	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0)	ND (3.0)	-	ND (3.0)	ND (3.0)	ND (3.0)
Silver	µg/L	ND (0.68)	ND (0.68)	-	ND (0.68)	ND (0.68)	ND (0.68)
Silver (Dissolved)	µg/L	ND (0.68)	ND (0.68)	-	ND (0.68)	ND (0.68)	ND (0.68)
Metals (Cont'd.)							
Sodium	µg/L	29800	29900	-	31900	42200	25500
Sodium (Dissolved)	µg/L	30400	29900	-	30900	44000	25200
Thallium	µg/L	ND (2.4)	ND (2.4)	-	ND (3.4)	ND (4.0)	ND (2.4)
Thallium (Dissolved)	µg/L	ND (2.4)	ND (2.4)	-	ND (4.1)	ND (3.2)	ND (2.4)
Vanadium	µg/L	ND (1.9)	ND (1.9)	-	ND (1.9)	ND (1.9)	2.2 J
Vanadium (Dissolved)	µg/L	ND (1.9)	ND (1.9)	-	ND (1.9)	ND (1.9)	ND (1.9)
Zinc	µg/L	4.4 J	5.4 J	-	28.9	ND (2.5)	42.2
Zinc (Dissolved)	µg/L	7.2 J	7.6 J	-	31.2	6.5 J	40.9
Polychlorinated Biphenyls							
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0024)	ND (0.0024)	-	ND (0.0024)	ND (0.0025)	ND (0.0024)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0024)	ND (0.0024)	-	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0028)	ND (0.0028)	-	ND (0.0028)	ND (0.0029)	ND (0.0028)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0018)	ND (0.0018)	-	ND (0.0018)	ND (0.0018)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	ND (0.0022)	ND (0.0022)	-	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0022)	ND (0.0022)	-	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0013)	ND (0.0013)	-	ND (0.0013)	ND (0.0013)	ND (0.0013)
Gases							
Carbon dioxide	µg/L	15000	16000	-	22000	16000	16000

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-38-I*	*MW-38-I*	*MW-38-I*	*MW-38-S*	*MW-39-I*	*MW-39-S*
	Sample ID:	*GW-15620-070709-DS-024*	*GW-15620-070709-DS-026*	*GW-15620-072009-RW-26*	*GW-15620-070709-DS-028*	*GW-15620-070709-RR-041*	*GW-15620-070709-RR-043*
	Sample Date:	*7/7/2009*	*7/7/2009*	*7/20/2009*	*7/7/2009*	*7/7/2009*	*7/7/2009*
			Duplicate	*Field Replicate*			
Parameter	*Units*						
General Chemistry							
Alkalinity, Total (as CaCO3)	mg/L	22.2	22.7	-	21.6	27.2	9.7
Ammonia	mg/L	0.38	0.39	-	0.47	0.28	0.55
Chloride	mg/L	34.3	34.3	-	61.0	52.6	30.1
Dissolved Organic Carbon (DOC), Dissolved	mg/L	1.9	1.8	-	2.8	1.2	2.7
Nitrate (as N)	mg/L	6.2	5.7	-	6.5	4.9	1.7
Nitrite (as N)	mg/L	ND (0.0032)	ND (0.0032)	-	0.067	ND (0.0032)	ND (0.0032)
Sulfate	mg/L	18.1	17.9	-	21.3	18.2	23.3

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-40-I*	*MW-41-I*	*TW-1*	*TW-3*	*TW-4*
	Sample ID:	*GW-15620-071009-DS-040*	*GW-15620-072009-RR-063*	*GW-15620-081209-RR-097*	*GW-15620-080409-RR-095*	*GW-15620-081309-RR-099*
	Sample Date:	*7/10/2009*	*7/20/2009*	*8/12/2009*	*8/4/2009*	*8/13/2009*
Parameter	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	ND (7.2)	ND (0.29)	ND (2.9)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	ND (5.0)	ND (0.20)	ND (2.0)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	µg/L	ND (5.0)	ND (0.20)	ND (2.0)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	µg/L	ND (2.9)	ND (0.12)	ND (1.2)	ND (0.12)	ND (0.12)
1,1-Dichloroethene	µg/L	ND (7.4)	ND (0.30)	ND (3.0)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	ND (3.9)	0.51 J	1.6 J	ND (0.15)	ND (0.15)
1,2,4-Trichlorobenzene	µg/L	ND (6.8)	0.41 J	17	ND (0.27)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (3.5)	ND (0.14)	ND (1.4)	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (4.5)	ND (0.18)	ND (1.8)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	µg/L	9.3 J	ND (0.15)	49	ND (0.15)	0.18 J
1,2-Dichloroethane	µg/L	ND (5.3)	ND (0.21)	ND (2.1)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	µg/L	ND (2.4)	ND (0.095)	ND (0.95)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	µg/L	9.4 J	0.28 J	17	ND (0.11)	ND (0.11)
1,4-Dichlorobenzene	µg/L	31	0.33 J	39	ND (0.21)	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (14)	ND (0.55)	ND (5.5) J	72	ND (0.55) J
2-Hexanone	µg/L	ND (4.0)	ND (0.16)	ND (1.6) J	ND (0.16)	ND (0.16) J
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (13)	ND (0.53)	ND (5.3)	ND (0.53)	ND (0.53)
Acetone	µg/L	ND (62)	ND (2.5)	ND (25) J	7.4 J	ND (2.5) J
Benzene	µg/L	8.4 J	ND (0.11)	2.2 J	ND (0.11)	0.12 J
Bromodichloromethane	µg/L	ND (3.2)	ND (0.13)	ND (1.3)	ND (0.13)	ND (0.13)
Bromoform	µg/L	ND (4.8) J	ND (0.19)	ND (1.9)	ND (0.19)	ND (0.19)
Bromomethane (Methyl Bromide)	µg/L	ND (7.8)	ND (0.31)	ND (3.1) J	ND (0.31)	ND (0.31) J
Carbon disulfide	µg/L	ND (5.3)	ND (0.21)	ND (2.1)	2.8	0.23 J
Carbon tetrachloride	µg/L	ND (3.4)	ND (0.14)	ND (1.4)	ND (0.14)	ND (0.14)
Chlorobenzene	µg/L	380	0.46 J	360	ND (0.14)	1.5
Chloroethane	µg/L	ND (5.4)	ND (0.21)	ND (2.1)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	µg/L	ND (4.3)	ND (0.17)	ND (1.7)	ND (0.17)	ND (0.17)
Chloromethane (Methyl Chloride)	µg/L	ND (7.1)	ND (0.28)	ND (2.8)	ND (0.28)	ND (0.28)
cis-1,2-Dichloroethene	µg/L	ND (5.9)	ND (0.24)	ND (2.4)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	µg/L	ND (4.7)	ND (0.19)	ND (1.9)	ND (0.19)	ND (0.19)
Cyclohexane	µg/L	ND (6.4)	ND (0.25)	ND (2.5)	ND (0.25)	ND (0.25)
Dibromochloromethane	µg/L	ND (3.4)	ND (0.14)	ND (1.4)	ND (0.14)	ND (0.14)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (4.8) J	ND (0.19)	ND (1.9)	ND (0.19)	ND (0.19)
Ethylbenzene	µg/L	ND (5.7)	ND (0.23)	ND (2.3)	ND (0.23)	ND (0.23)
Isopropylbenzene	µg/L	ND (4.1)	ND (0.16)	ND (1.6)	ND (0.16)	ND (0.16)
Methyl acetate	µg/L	ND (3.4)	ND (0.14)	ND (1.4)	ND (0.14)	ND (0.14)
Methyl cyclohexane	µg/L	ND (6.5)	ND (0.26)	ND (2.6)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	µg/L	12 J	0.25 J	ND (1.8)	ND (0.18)	ND (0.18)
Methylene chloride	µg/L	ND (3.7)	ND (0.15)	ND (1.5)	ND (0.15)	ND (0.15)
Volatile Organic Compounds (Cont'd.)						
Styrene	µg/L	ND (2.4)	ND (0.097)	ND (0.97)	ND (0.097)	ND (0.097)
Tetrachloroethene	µg/L	ND (3.7) J	ND (0.15)	ND (1.5)	ND (0.15)	ND (0.15)
Toluene	µg/L	ND (3.8)	ND (0.15)	ND (1.5)	1.5	ND (0.15)
trans-1,2-Dichloroethene	µg/L	ND (4.2)	ND (0.17)	ND (1.7)	ND (0.17)	ND (0.17)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-40-I*	*MW-41-I*	*TW-1*	*TW-3*	*TW-4*
	Sample ID:	*GW-15620-071009-DS-040*	*GW-15620-072009-RR-063*	*GW-15620-081209-RR-097*	*GW-15620-080409-RR-095*	*GW-15620-081309-RR-099*
	Sample Date:	*7/10/2009*	*7/20/2009*	*8/12/2009*	*8/4/2009*	*8/13/2009*
Parameter	***Units***					
trans-1,3-Dichloropropene	µg/L	ND (3.7)	ND (0.15)	ND (1.5)	ND (0.15)	ND (0.15)
Trichloroethene	µg/L	ND (3.6)	ND (0.14)	ND (1.4)	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	µg/L	ND (5.0)	ND (0.20)	ND (2.0)	ND (0.20)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (8.0)	ND (0.32)	ND (3.2)	ND (0.32)	ND (0.32)
Vinyl chloride	µg/L	ND (5.7)	ND (0.23)	ND (2.3)	ND (0.23)	ND (0.23)
Xylene (total)	µg/L	ND (12)	ND (0.49)	ND (4.9)	ND (0.49)	ND (0.49)
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.33)	ND (0.35)	ND (0.38)	ND (0.37)	ND (0.38)
2,4,5-Trichlorophenol	µg/L	ND (0.14)	ND (0.15)	ND (0.17)	ND (0.16)	ND (0.17)
2,4,6-Trichlorophenol	µg/L	ND (0.086)	ND (0.092)	ND (0.10)	ND (0.098)	ND (0.10)
2,4-Dichlorophenol	µg/L	ND (0.13)	ND (0.14)	0.38 J	ND (0.15)	ND (0.15)
2,4-Dimethylphenol	µg/L	ND (0.076)	ND (0.081)	ND (0.088)	ND (0.087)	ND (0.089)
2,4-Dinitrophenol	µg/L	ND (5.8)	ND (6.2)	ND (6.8)	ND (6.6)	ND (6.8)
2,4-Dinitrotoluene	µg/L	ND (0.16)	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.18)
2,6-Dinitrotoluene	µg/L	ND (0.18)	ND (0.19)	ND (0.21)	ND (0.21)	ND (0.21)
2-Chloronaphthalene	µg/L	ND (0.14)	ND (0.15)	ND (0.17)	ND (0.16)	ND (0.17)
2-Chlorophenol	µg/L	ND (0.20)	ND (0.21)	3.3 J	ND (0.23)	ND (0.23)
2-Methylnaphthalene	µg/L	ND (0.15)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.17)
2-Methylphenol	µg/L	ND (0.13)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.16)
2-Nitroaniline	µg/L	ND (0.16)	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.18)
2-Nitrophenol	µg/L	ND (0.13)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)
3,3'-Dichlorobenzidine	µg/L	ND (0.34)	ND (0.37)	ND (0.40)	ND (0.39)	ND (0.40)
3-Nitroaniline	µg/L	ND (0.25)	ND (0.26)	ND (0.29)	ND (0.28)	ND (0.29)
4,6-Dinitro-2-methylphenol	µg/L	ND (7.4)	ND (7.9)	ND (8.6)	ND (8.4)	ND (8.7)
4-Bromophenyl phenyl ether	µg/L	ND (0.18)	ND (0.19)	ND (0.21)	ND (0.20)	ND (0.21)
4-Chloro-3-methylphenol	µg/L	ND (0.24)	ND (0.26)	ND (0.28)	ND (0.27)	ND (0.28)
4-Chloroaniline	µg/L	ND (1.0)	ND (1.1)	ND (1.2)	ND (1.2)	ND (1.2)
4-Chlorophenyl phenyl ether	µg/L	ND (0.099)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)
4-Methylphenol	µg/L	ND (0.17)	ND (0.18)	ND (0.19)	ND (0.19)	ND (0.20)
4-Nitroaniline	µg/L	ND (0.22)	ND (0.23)	ND (0.25)	ND (0.25)	ND (0.25)
4-Nitrophenol	µg/L	ND (6.7)	ND (7.1)	ND (7.7)	ND (7.6) J	ND (7.8)
Acenaphthene	µg/L	ND (0.14)	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.16)
Acenaphthylene	µg/L	ND (0.080)	ND (0.085)	ND (0.093)	ND (0.091)	ND (0.094)
Acetophenone	µg/L	ND (0.21)	ND (0.22)	ND (0.24)	ND (0.24)	ND (0.24)
Semi-Volatile Organic Compounds (Cont'd.)						
Aniline	µg/L	ND (0.39)	ND (0.41)	ND (0.45)	ND (0.44)	ND (0.45)
Anthracene	µg/L	ND (0.99)	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.2)
Atrazine	µg/L	ND (0.19)	ND (0.20)	ND (0.22)	ND (0.22)	ND (0.22)
Benzaldehyde	µg/L	ND (0.48)	ND (0.51)	ND (0.55)	ND (0.54)	ND (0.56)
Benzo(a)anthracene	µg/L	ND (0.17)	ND (0.18)	0.49 J	ND (0.19)	ND (0.19)
Benzo(a)pyrene	µg/L	ND (0.11)	ND (0.12)	0.29 J	ND (0.13)	ND (0.13)
Benzo(b)fluoranthene	µg/L	ND (0.15)	ND (0.16)	0.44 J	ND (0.18)	ND (0.18)
Benzo(g,h,i)perylene	µg/L	ND (0.082)	ND (0.087)	0.51 J	ND (0.094)	ND (0.096)
Benzo(k)fluoranthene	µg/L	ND (0.16)	ND (0.17)	0.37 J	ND (0.18)	ND (0.18)

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-40-I*	*MW-41-I*	*TW-1*	*TW-3*	*TW-4*
	Sample ID:	*GW-15620-071009-DS-040*	*GW-15620-072009-RR-063*	*GW-15620-081209-RR-097*	*GW-15620-080409-RR-095*	*GW-15620-081309-RR-099*
	Sample Date:	*7/10/2009*	*7/20/2009*	*8/12/2009*	*8/4/2009*	*8/13/2009*
Parameter	*Units*					
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.15)	ND (0.16)	ND (0.17)	ND (0.17)	ND (0.17)
bis(2-Chloroethoxy)methane	µg/L	ND (0.13)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)
bis(2-Chloroethyl)ether	µg/L	ND (0.25)	ND (0.27)	ND (0.29)	ND (0.28)	ND (0.29)
bis(2-Ethylhexyl)phthalate	µg/L	ND (0.44)	ND (0.47)	3.1 J	ND (0.50)	6.3 J
Butyl benzylphthalate	µg/L	ND (2.9)	ND (3.1)	ND (3.4)	ND (3.3)	ND (3.4)
Caprolactam	µg/L	ND (6.9)	ND (7.3)	ND (8.0)	ND (7.8)	ND (8.0)
Carbazole	µg/L	ND (0.13)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)
Chrysene	µg/L	ND (0.10)	ND (0.11)	0.52 J	ND (0.12)	ND (0.12)
Dibenz(a,h)anthracene	µg/L	ND (0.12)	ND (0.13)	1.7 J	ND (0.14)	ND (0.14)
Dibenzofuran	µg/L	ND (0.18)	ND (0.19)	ND (0.20)	ND (0.20)	ND (0.21)
Diethyl phthalate	µg/L	ND (0.43)	ND (0.45)	ND (0.49)	ND (0.48)	ND (0.50)
Dimethyl phthalate	µg/L	ND (0.13)	ND (0.14)	ND (0.15)	ND (0.15)	ND (0.15)
Di-n-butylphthalate	µg/L	ND (0.28)	ND (0.30)	ND (0.33)	ND (0.32)	ND (0.33)
Di-n-octyl phthalate	µg/L	ND (0.15)	ND (0.16)	10 J	ND (0.17)	ND (0.17)
Fluoranthene	µg/L	ND (0.095)	ND (0.10)	0.21 J	ND (0.11)	ND (0.11)
Fluorene	µg/L	ND (0.094)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)
Hexachlorobenzene	µg/L	ND (0.17)	ND (0.18)	ND (0.20)	ND (0.20)	ND (0.20)
Hexachlorobutadiene	µg/L	ND (0.12)	ND (0.12)	ND (0.13)	ND (0.13)	ND (0.13)
Hexachlorocyclopentadiene	µg/L	ND (0.11)	ND (0.12)	ND (0.13) J	ND (0.12)	ND (0.13)
Hexachloroethane	µg/L	ND (0.073)	ND (0.077)	ND (0.084)	ND (0.083)	ND (0.085)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.15)	ND (0.16)	1.9 J	ND (0.17)	ND (0.18)
Isophorone	µg/L	ND (0.27)	ND (0.29)	ND (0.32)	ND (0.31)	ND (0.32)
Naphthalene	µg/L	ND (0.26)	ND (0.28)	ND (0.31)	ND (0.30)	ND (0.31)
Nitrobenzene	µg/L	ND (0.17)	ND (0.18)	ND (0.20)	ND (0.19)	ND (0.20)
N-Nitrosodi-n-propylamine	µg/L	ND (0.37)	ND (0.39)	ND (0.42)	ND (0.42)	ND (0.43)
N-Nitrosodiphenylamine	µg/L	ND (0.46)	ND (0.49)	ND (0.54)	ND (0.53)	ND (0.54)
Pentachlorophenol	µg/L	ND (1.8)	ND (1.9)	ND (2.1)	ND (2.0)	ND (2.1)
Phenanthrene	µg/L	ND (0.27)	ND (0.29)	ND (0.31)	ND (0.31)	ND (0.32)
Phenol	µg/L	ND (0.22)	ND (0.24)	ND (0.26)	ND (0.26)	ND (0.26)
Pyrene	µg/L	ND (0.11)	ND (0.11)	0.19 J	ND (0.12)	ND (0.12)
Metals						
Aluminum	µg/L	66.3 J	110 J	485 J	ND (218)	424
Aluminum (Dissolved)	µg/L	ND (22.1)	ND (9.7)	157 J	122 J	327
Antimony	µg/L	ND (1.3)	ND (1.3)	2.3 J	ND (1.3)	ND (1.3)
Antimony (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Arsenic	µg/L	20.9	ND (2.7)	ND (2.7)	6.4 J	ND (2.7)
Arsenic (Dissolved)	µg/L	21.1	ND (2.7)	ND (2.7)	5.7 J	ND (2.7)
Barium	µg/L	39.7 J	8.7 J	9.1 J	ND (9.8)	28.2 J
Barium (Dissolved)	µg/L	41.2 J	8.4 J	8.4 J	10.3 J	26.8 J
Beryllium	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Beryllium (Dissolved)	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.42)	ND (0.23)
Cadmium	µg/L	ND (0.13)	ND (0.15)	ND (0.13)	ND (0.13)	ND (0.13)
Cadmium (Dissolved)	µg/L	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)
Calcium	µg/L	21500	8310	41900	54100	87200
Calcium (Dissolved)	µg/L	23100	8530	41700	53000	84400

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-40-I*	*MW-41-I*	*TW-1*	*TW-3*	*TW-4*
	Sample ID:	*GW-15620-071009-DS-040*	*GW-15620-072009-RR-063*	*GW-15620-081209-RR-097*	*GW-15620-080409-RR-095*	*GW-15620-081309-RR-099*
	Sample Date:	*7/10/2009*	*7/20/2009*	*8/12/2009*	*8/4/2009*	*8/13/2009*
Parameter	***Units***					
Chromium	µg/L	ND (1.8)	ND (0.57)	90.6	10.9	30.8
Chromium Total (Dissolved)	µg/L	1.4 J	ND (0.57)	6.4	6.2	8.8
Cobalt	µg/L	8.2 J	0.72 J	3.5 J	ND (1.5)	0.61 J
Cobalt (Dissolved)	µg/L	9.2 J	0.99 J	ND (0.66)	ND (2.0)	ND (0.43)
Copper	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	3.7 J	7.1 J
Copper (Dissolved)	µg/L	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.7)
Iron	µg/L	25500	121	8790	6120	6250
Iron (Dissolved)	µg/L	26800	ND (12.3)	1030 J	5050	6340
Lead	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Lead (Dissolved)	µg/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Magnesium	µg/L	5460	1390 J	141000	168000	265000
Magnesium (Dissolved)	µg/L	5940	1410 J	142000	166000	261000
Manganese	µg/L	3390	236	267	268	414
Manganese (Dissolved)	µg/L	3640	240	217	244	385
Mercury	µg/L	ND (0.038)	ND (0.038)	ND (0.059)	ND (0.069)	1.8
Mercury (Dissolved)	µg/L	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	µg/L	3.2 J	2.4 J	148	95.5	6.9 J
Nickel (Dissolved)	µg/L	3.1 J	2.7 J	20.2 J	88.5	ND (1.6)
Potassium	µg/L	3550 J	1550 J	65000 J	63600	121000
Potassium (Dissolved)	µg/L	3910 J	1590 J	65000 J	64100	118000 J
Selenium	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Selenium (Dissolved)	µg/L	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
Silver	µg/L	1.1 J	ND (0.68)	ND (0.68)	ND (0.68)	0.86 J
Silver (Dissolved)	µg/L	1.0 J	ND (0.68)	ND (0.68)	ND (0.68)	ND (0.68)
Metals (Cont'd.)						
Sodium	µg/L	56200	5590	1140000	1910000	2300000
Sodium (Dissolved)	µg/L	61300	5670	1150000	1860000	2250000
Thallium	µg/L	ND (2.4)	ND (2.4)	ND (3.1)	ND (2.4)	ND (2.4)
Thallium (Dissolved)	µg/L	ND (2.4)	ND (2.4)	ND (2.8)	ND (2.4)	ND (4.2)
Vanadium	µg/L	2.3 J	ND (1.9)	8.6 J	9.4 J	11.1 J
Vanadium (Dissolved)	µg/L	ND (1.9)	ND (1.9)	8.0 J	9.2 J	10.6 J
Zinc	µg/L	3.0 J	ND (7.0)	ND (9.0)	3.9 J	ND (10.5)
Zinc (Dissolved)	µg/L	ND (2.5)	ND (7.3)	ND (4.4)	3.3 J	ND (5.0)
Polychlorinated Biphenyls						
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0024)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0024)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0028)	ND (0.0029)	ND (0.0030)	ND (0.0029)	ND (0.0029)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0018)	ND (0.0019)	ND (0.0019)	ND (0.0019)	ND (0.0019)
Aroclor-1248 (PCB-1248)	µg/L	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	0.021
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0022)	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.0023)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0013)	ND (0.0014)	ND (0.0014)	ND (0.0014)	ND (0.0014)
Gases						
Carbon dioxide	µg/L	27000	13000	35000	13000	43000

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

	Sample Location:	*MW-40-I*	*MW-41-I*	*TW-1*	*TW-3*	*TW-4*
	Sample ID:	*GW-15620-071009-DS-040*	*GW-15620-072009-RR-063*	*GW-15620-081209-RR-097*	*GW-15620-080409-RR-095*	*GW-15620-081309-RR-099*
	Sample Date:	*7/10/2009*	*7/20/2009*	*8/12/2009*	*8/4/2009*	*8/13/2009*
Parameter	***Units***					
General Chemistry						
Alkalinity, Total (as CaCO3)	mg/L	113	12.3	119	512	93.8
Ammonia	mg/L	1.4	0.10	1.0 J	ND (0.36)	0.13
Chloride	mg/L	85.8	5.5	1980	3530	3900
Dissolved Organic Carbon (DOC), Dissolved	mg/L	11.7	ND (0.75)	8.7	25.2	9.7
Nitrate (as N)	mg/L	ND (0.0080)	1.1	1.4	ND (0.038)	ND (0.038)
Nitrite (as N)	mg/L	0.20	ND (0.0032)	0.42	1.1	1.5
Sulfate	mg/L	10.0	11.9	127	19.6	476

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	06/20/09	Chloromethane	31	GW-15620-060909-MM-002	ND 0.28 J	µg/L
				GW-15620-060909-MM-004	ND 0.28 J	µg/L
				GW-15620-060909-RR-001	ND 0.28 J	µg/L
				GW-15620-060909-RR-003	ND 0.28 J	µg/L
VOCs	06/20/09	Dichlorodifluoromethane	66	GW-15620-060909-MM-002	ND 0.19 J	µg/L
				GW-15620-060909-MM-004	ND 0.19 J	µg/L
				GW-15620-060909-RR-001	ND 0.19 J	µg/L
				GW-15620-060909-RR-003	ND 0.19 J	µg/L
VOCs	06/22/09	Carbon tetrachloride	28	GW-15620-061009-RR-007	ND 0.14 J	µg/L
				GW-15620-061009-RR-009	ND 0.14 J	µg/L
VOCs	06/23/09	Dichlorodifluoromethane	26	GW-15620-061009-RR-005	ND 0.19 J	µg/L
				GW-15620-061009-RR-011	ND 0.19 J	µg/L
				GW-15620-061109-MM-006	ND 0.19 J	µg/L
				GW-15620-061109-RR-013	ND 0.19 J	µg/L
				GW-15620-061109-RR-015	ND 0.19 J	µg/L
VOCs	06/23/09	Carbon tetrachloride	35	GW-15620-061009-RR-005	ND 0.14 J	µg/L
				GW-15620-061009-RR-011	ND 0.14 J	µg/L
				GW-15620-061109-MM-006	ND 0.14 J	µg/L
				GW-15620-061109-RR-013	ND 0.14 J	µg/L
				GW-15620-061109-RR-015	ND 0.14 J	µg/L
VOCs	06/25/09	2-Butanone	27	GW-15620-061509-RR-017	ND 0.55 J	µg/L
				GW-15620-061509-RR-019	ND 220 J	µg/L
VOCs	06/25/09	Methyl acetate	32	GW-15620-061509-RR-017	ND 0.14 J	µg/L
				GW-15620-061509-RR-019	ND 55 J	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	07/01/09	Chloroethane	34	GW-15620-061709-MM-008	ND 86 J	µg/L
				GW-15620-061709-MM-010	ND 1.1 J	µg/L
VOCs	07/01/09	Carbon tetrachloride	39	GW-15620-061709-MM-008	ND 55 J	µg/L
				GW-15620-061709-MM-010	ND 0.68 J	µg/L
VOCs	07/01/09	Chloroethane	28	GW-15620-061809-MM-012	ND 0.21 J	µg/L
				GW-15620-061809-MM-014	ND 0.21 J	µg/L
VOCs	07/01/09	Dichlorodifluoromethane	59	GW-15620-061809-MM-012	ND 0.19 J	µg/L
				GW-15620-061809-MM-014	ND 0.19 J	µg/L
VOCs	07/01/09	Acetone	35	GW-15620-061809-MM-012	ND 2.5 J	µg/L
				GW-15620-061809-MM-014	ND 2.5 J	µg/L
VOCs	07/01/09	2-Butanone	33	GW-15620-061809-MM-012	ND 0.55 J	µg/L
				GW-15620-061809-MM-014	ND 0.55 J	µg/L
VOCs	07/01/09	4-Methyl-2-pentanone	33	GW-15620-061809-MM-012	ND 0.53 J	µg/L
				GW-15620-061809-MM-014	ND 0.53 J	µg/L
VOCs	07/01/09	2-Hexanone	34	GW-15620-061809-MM-012	ND 0.16 J	µg/L
				GW-15620-061809-MM-014	ND 0.16 J	µg/L
VOCs	07/01/09	Methyl acetate	32	GW-15620-061809-MM-012	ND 0.14 J	µg/L
				GW-15620-061809-MM-014	ND 0.14 J	µg/L
VOCs	07/06/09	2-Butanone	40	GW-15620-062409-RR-027	ND 27 J	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	07/06/09	4-Methyl-2-pentanone	37	GW-15620-062409-RR-027	ND 26 J	µg/L
VOCs	07/06/09	2-Hexanone	34	GW-15620-062409-RR-027	ND 8.0 J	µg/L
VOCs	07/06/09	Methyl acetate	44	GW-15620-062409-RR-027	ND 6.9 J	µg/L
VOCs	07/06/09	Cyclohexane	31	GW-15620-062409-RR-027	ND 13 J	µg/L
VOCs	07/07/09	Methylene chloride	28	GW-15620-062309-RR-021	67 J	µg/L
				GW-15620-062309-RR-023	ND 0.15 J	µg/L
				GW-15620-062409-RR-025	ND 0.15 J	µg/L
VOCs	07/07/09	Methyl acetate	33	GW-15620-062309-RR-021	ND 34 J	µg/L
				GW-15620-062309-RR-023	ND 0.14 J	µg/L
				GW-15620-062409-RR-025	ND 0.14 J	µg/L
VOCs	07/09/09	Bromomethane	28	GW-15620-062509-RR-029	ND 0.31 J	µg/L
VOCs	07/09/09	2-Butanone	28	GW-15620-062509-RR-029	ND 0.55 J	µg/L
VOCs	07/09/09	2-Hexanone	27	GW-15620-062509-RR-029	ND 0.16 J	µg/L
VOCs	07/12/09	Dichlorodifluoromethane	39	GW-15620-070109-MM-016	ND 0.19 J	µg/L
				GW-15620-070109-RR-035	ND 0.19 J	µg/L
VOCs	07/15/09	Dichlorodifluoromethane	58	GW-15620-070609-DS-020	ND 0.19 J	µg/L
				GW-15620-070609-DS-022	ND 0.19 J	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	07/15/09	Methyl acetate	34	GW-15620-070609-DS-020	ND 0.14 J	µg/L
				GW-15620-070609-DS-022	ND 0.14 J	µg/L
VOCs	07/16/09	Dichlorodifluoromethane	42	GW-15620-070609-RR-033	ND 96 J	µg/L
VOCs	07/18/09	Dichlorodifluoromethane	42	GW-15620-070809-DS-030	ND 0.19 J	µg/L
				GW-15620-070809-DS-032	ND 0.19 J	µg/L
				GW-15620-070809-RR-051	ND 0.19 J	µg/L
				GW-15620-070909-DS-034	ND 0.38 J	µg/L
				GW-15620-070909-RR-053	ND 0.19 J	µg/L
				GW-15620-070909-RR-055	ND 0.19 J	µg/L
				GW-15620-070909-RR-057	ND 0.19 J	µg/L
VOCs	07/20/09	Carbon tetrachloride	30	GW-15620-070709-RR-041	ND 0.14 J	µg/L
				GW-15620-070809-RR-049	ND 2.7 J	µg/L
VOCs	07/20/09	Bromoform	28	GW-15620-070709-RR-041	ND 0.19 J	µg/L
				GW-15620-070809-RR-049	ND 3.8 J	µg/L
VOCs	07/20/09	Dichlorodifluoromethane	37	GW-15620-071009-DS-040	ND 4.8 J	µg/L
				GW-15620-071009-RR-059	ND 4.8 J	µg/L
VOCs	07/20/09	Tetrachloroethene	30	GW-15620-071009-DS-040	ND 3.7 J	µg/L
				GW-15620-071009-RR-059	ND 3.7 J	µg/L
VOCs	07/20/09	Bromoform	39	GW-15620-071009-DS-040	ND 4.8 J	µg/L
				GW-15620-071009-RR-059	ND 4.8 J	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	07/21/09	Dichlorodifluoromethane	27	GW-15620-071009-DS-036	ND 0.19 J	µg/L
				GW-15620-071009-DS-038	ND 0.19 J	µg/L
				GW-15620-071009-RR-061	ND 0.19 J	µg/L
VOCs	07/21/09	Tetrachloroethene	27	GW-15620-071009-DS-036	ND 0.15 J	µg/L
				GW-15620-071009-DS-038	ND 0.15 J	µg/L
				GW-15620-071009-RR-061	ND 0.15 J	µg/L
VOCs	07/21/09	2-Hexanone	27	GW-15620-071009-DS-036	ND 0.16 J	µg/L
				GW-15620-071009-DS-038	ND 0.16 J	µg/L
				GW-15620-071009-RR-061	ND 0.16 J	µg/L
VOCs	07/21/09	Methyl acetate	28	GW-15620-071009-DS-036	ND 0.14 J	µg/L
				GW-15620-071009-DS-038	ND 0.14 J	µg/L
				GW-15620-071009-RR-061	ND 0.14 J	µg/L
VOCs	08/04/09	Bromomethane	29	GW-15620-072109-RR-069	ND 0.31 J	µg/L
				GW-15620-072109-RW-42	ND 0.31 J	µg/L
				GW-15620-072109-RW-44	ND 0.31 J	µg/L
				GW-15620-072109-RW-46	ND 0.31 J	µg/L
				GW-15620-072109-RW-48	ND 1.6 J	µg/L
				GW-15620-072109-RW-50	ND 1.6 J	µg/L
				GW-15620-072109-RW-52	ND 7.8 J	µg/L
				GW-15620-072109-RW-54	ND 0.31 J	µg/L
				GW-15620-072209-RR-071	ND 0.31 J	µg/L
				GW-15620-072209-RR-073	ND 390 J	µg/L
				GW-15620-072209-RR-075	ND 3.9 J	µg/L
				GW-15620-072209-RR-077	ND 0.31 J	µg/L
				GW-15620-072209-RR-079	ND 7.8 J	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	08/04/09	Bromomethane	29	GW-15620-072209-RW-056	ND 0.31 J	µg/L
				GW-15620-072209-RW-058	ND 0.31 J	µg/L
				GW-15620-072209-RW-060	ND 0.31 J	µg/L
VOCs	08/04/09	Trichlorofluoromethane	28	GW-15620-072109-RR-069	ND 0.20 J	µg/L
				GW-15620-072109-RW-42	ND 0.20 J	µg/L
				GW-15620-072109-RW-44	ND 0.20 J	µg/L
				GW-15620-072109-RW-46	ND 0.20 J	µg/L
				GW-15620-072109-RW-48	ND 0.99 J	µg/L
				GW-15620-072109-RW-50	ND 0.99 J	µg/L
				GW-15620-072109-RW-52	ND 5.0 J	µg/L
				GW-15620-072109-RW-54	ND 0.20 J	µg/L
				GW-15620-072209-RR-071	ND 0.20 J	µg/L
				GW-15620-072209-RR-073	ND 250 J	µg/L
				GW-15620-072209-RR-075	ND 2.5 J	µg/L
				GW-15620-072209-RR-077	ND 0.20 J	µg/L
				GW-15620-072209-RR-079	ND 5.0 J	µg/L
				GW-15620-072209-RW-056	ND 0.20 J	µg/L
				GW-15620-072209-RW-058	ND 0.20 J	µg/L
				GW-15620-072209-RW-060	ND 0.20 J	µg/L
VOCs	08/04/09	Dichlorodifluoromethane	26	GW-15620-072109-RR-069	ND 0.19 J	µg/L
				GW-15620-072109-RW-42	ND 0.19 J	µg/L
				GW-15620-072109-RW-44	ND 0.19 J	µg/L
				GW-15620-072109-RW-46	ND 0.19 J	µg/L
				GW-15620-072109-RW-48	ND 0.96 J	µg/L
				GW-15620-072109-RW-50	ND 0.96 J	µg/L
				GW-15620-072109-RW-52	ND 4.8 J	µg/L
				GW-15620-072109-RW-54	ND 0.19 J	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	08/04/09	Dichlorodifluoromethane	26	GW-15620-072209-RR-071	ND 0.19 J	µg/L
				GW-15620-072209-RR-073	ND 240 J	µg/L
				GW-15620-072209-RR-075	ND 2.4 J	µg/L
				GW-15620-072209-RR-077	ND 0.19 J	µg/L
				GW-15620-072209-RR-079	ND 4.8 J	µg/L
				GW-15620-072209-RW-056	ND 0.19 J	µg/L
				GW-15620-072209-RW-058	ND 0.19 J	µg/L
				GW-15620-072209-RW-060	ND 0.19 J	µg/L
VOCs	08/05/09	Bromomethane	29	GW-15620-072209-RW-064	ND 0.31 J	µg/L
				GW-15620-072209-RW-066	ND 0.31 J	µg/L
				GW-15620-072209-RW-068	ND 0.31 J	µg/L
				GW-15620-072209-RW-070	ND 0.31 J	µg/L
				GW-15620-072209-RW-072	ND 0.31 J	µg/L
				GW-15620-072209-RW-074	ND 3.9 J	µg/L
				GW-15620-072209-RW-076	ND 0.31 J	µg/L
VOCs	08/05/09	Bromoform	27	GW-15620-072209-RW-064	ND 0.19 J	µg/L
				GW-15620-072209-RW-066	ND 0.19 J	µg/L
				GW-15620-072209-RW-068	ND 0.19 J	µg/L
				GW-15620-072209-RW-070	ND 0.19 J	µg/L
				GW-15620-072209-RW-072	ND 0.19 J	µg/L
				GW-15620-072209-RW-074	ND 2.4 J	µg/L
				GW-15620-072209-RW-076	ND 0.19 J	µg/L
VOCs	08/05/09	1,2-Dibromo-3-chloropropane	31	GW-15620-072209-RW-064	ND 0.14 J	µg/L
				GW-15620-072209-RW-066	ND 0.14 J	µg/L
				GW-15620-072209-RW-068	ND 0.14 J	µg/L
				GW-15620-072209-RW-070	ND 0.14 J	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	08/05/09	1,2-Dibromo-3-chloropropane	31	GW-15620-072209-RW-072	ND 0.14 J	µg/L
				GW-15620-072209-RW-074	ND 1.8 J	µg/L
				GW-15620-072209-RW-076	ND 0.14 J	µg/L
VOCs	08/05/09	1,2,3-Trichlorobenzene	30	GW-15620-072209-RW-064	ND 0.15 J	µg/L
				GW-15620-072209-RW-066	ND 0.15 J	µg/L
				GW-15620-072209-RW-068	ND 0.15 J	µg/L
				GW-15620-072209-RW-070	ND 0.15 J	µg/L
				GW-15620-072209-RW-072	ND 0.15 J	µg/L
				GW-15620-072209-RW-074	ND 1.9 J	µg/L
				GW-15620-072209-RW-076	ND 0.15 J	µg/L
VOCs	08/06/09	Chloromethane	31	GW-15620-072309-RR-081	ND 0.28 J	µg/L
				GW-15620-072309-RR-083	ND 0.28 J	µg/L
				GW-15620-072309-RR-087	ND 0.28 J	µg/L
VOCs	08/06/09	Carbon disulfide	43	GW-15620-072309-RR-081	ND 0.21 J	µg/L
				GW-15620-072309-RR-083	ND 0.21 J	µg/L
				GW-15620-072309-RR-087	ND 0.21 J	µg/L
VOCs	08/12/09	Acetone	28	GW-15620-080409-RR-095	7.4 J	µg/L
SVOCs	06/23/09	Benzaldehyde	28	GW-15620-061109-MM-006	ND 0.48 J	µg/L
				GW-15620-061109-RR-013	ND 0.47 J	µg/L
				GW-15620-061109-RR-015	ND 0.55 J	µg/L
SVOCs	06/26/09	Benzaldehyde	27	GW-15620-061709-MM-008	ND 0.47 J	µg/L
				GW-15620-061709-MM-010	ND 0.48 J	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
SVOCs	07/02/09	Hexachlorocyclopentadiene	31	GW-15620-062509-RR-029	ND 0.11 J	µg/L
SVOCs	08/07/09	4-Nitrophenol	26	GW-15620-072309-RR-081	ND 7.6 J	µg/L
				GW-15620-072309-RR-083	ND 7.3 J	µg/L
				GW-15620-072309-RR-085	ND 7.9 J	µg/L
				GW-15620-072309-RR-087	ND 7.2 J	µg/L
SVOCs	08/12/09	4-Nitrophenol	27	GW-15620-080409-RR-095	ND 7.6 J	µg/L

Notes:

J = Estimated.
ND = Non-detect at Associated Value.
SVOCs = Semi-Volatile Organic Compounds.
VOCs = Volatile Organic Compounds.

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CRDL RECOVERIES
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analyte*	*CRDL Recovery (percent)*	*Control Limits*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	Chromium	70	80-120	GW-15620-070809-DS-018	ND 0.57 J	µg/L
				GW-15620-070809-DS-020	ND 0.57 J	µg/L
				GW-15620-070809-DS-022	ND 0.57 J	µg/L
				GW-15620-070809-DS-030	ND 0.57 J	µg/L
				GW-15620-070809-DS-032	ND 0.57 J	µg/L
				GW-15620-070809-RR-049	ND 0.57 J	µg/L
				GW-15620-070909-DS-034	ND 0.57 J	µg/L
				GW-15620-070909-RR-053	ND 0.57 J	µg/L
				GW-15620-070909-RR-055	ND 0.57 J	µg/L
				GW-15620-070909-RR-057	ND 0.57 J	µg/L
	Chromium Total (Dissolved)	70	80-120	GW-15620-070809-DS-018	ND 0.57 J	µg/L
				GW-15620-070809-DS-020	ND 0.57 J	µg/L
				GW-15620-070809-DS-022	ND 0.57 J	µg/L
				GW-15620-070809-DS-030	ND 0.57 J	µg/L
				GW-15620-070809-DS-032	ND 0.57 J	µg/L
				GW-15620-070809-RR-049	ND 0.57 J	µg/L
				GW-15620-070909-DS-034	ND 0.57 J	µg/L
				GW-15620-070909-RR-053	ND 0.57 J	µg/L
				GW-15620-070909-RR-055	ND 0.57 J	µg/L
				GW-15620-070909-RR-057	ND 0.57 J	µg/L
	Selenium	72	80-120	GW-15620-070809-DS-018	ND 3.0 J	µg/L
				GW-15620-070809-DS-020	ND 3.0 J	µg/L
				GW-15620-070809-DS-022	ND 3.0 J	µg/L
				GW-15620-070809-DS-030	ND 3.0 J	µg/L
				GW-15620-070809-DS-032	ND 3.0 J	µg/L

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CRDL RECOVERIES
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analyte*	*CRDL Recovery (percent)*	*Control Limits*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	Selenium	72	80-120	GW-15620-070809-RR-049	ND 3.0 J	µg/L
				GW-15620-070809-RR-051	ND 3.0 J	µg/L
				GW-15620-070909-DS-034	ND 3.0 J	µg/L
				GW-15620-070909-RR-053	ND 3.0 J	µg/L
				GW-15620-070909-RR-055	ND 3.0 J	µg/L
				GW-15620-070909-RR-057	ND 3.0 J	µg/L
	Selenium (Dissolved)	72	80-120	GW-15620-070809-DS-018	ND 3.0 J	µg/L
				GW-15620-070809-DS-020	ND 3.0 J	µg/L
				GW-15620-070809-DS-022	ND 3.0 J	µg/L
				GW-15620-070809-DS-030	ND 3.0 J	µg/L
				GW-15620-070809-DS-032	ND 3.0 J	µg/L
				GW-15620-070809-RR-049	ND 3.0 J	µg/L
				GW-15620-070809-RR-051	ND 3.0 J	µg/L
				GW-15620-070909-DS-034	ND 3.0 J	µg/L
				GW-15620-070909-RR-053	ND 3.0 J	µg/L
				GW-15620-070909-RR-055	ND 3.0 J	µg/L
				GW-15620-070909-RR-057	ND 3.0 J	µg/L
	Lead	123	80-120	GW-15620-070709-RR-047	1.6 J	µg/L
	Lead (Dissolved)	132	80-120	GW-15620-072109-RR-067	1.3 J	µg/L
				GW-15620-072109-RR-069	1.7 J	µg/L
				GW-15620-072109-RW-42	1.5 J	µg/L
				GW-15620-072109-RW-44	1.4 J	µg/L
				GW-15620-072109-RW-46	1.6 J	µg/L
	Selenium (Dissolved)	143	80-120	GW-15620-072109-RR-067	3.1 J	µg/L

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CRDL RECOVERIES
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analyte*	*CRDL Recovery (percent)*	*Control Limits*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	Selenium (Dissolved)	129	80-120	GW-15620-072309-RR-089	3.4 J	µg/L
				GW-15620-072309-RW-80	4.0 J	µg/L
	Selenium	128	80-120	GW-15620-061109-MM-006	3.1 J	µg/L
				GW-15620-061109-RR-015	3.6 J	µg/L
	Selenium	76.6	80-120	GW-15620-062409-RR-025	ND 3.0 J	µg/L
				GW-15620-062409-RR-027	ND 3.0 J	µg/L
				GW-15620-062509-RR-029	ND 3.0 J	µg/L
	Selenium (Dissolved)	76.6	80-120	GW-15620-062409-RR-025	ND 3.0 J	µg/L
				GW-15620-062409-RR-027	ND 3.0 J	µg/L
				GW-15620-062509-RR-029	ND 3.0 J	µg/L

Notes:

J = Estimated.
ND = Non-detect at Associated Value.

TABLE 6

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING SURROGATE RECOVERIES
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Surrogate*	*Surrogate Recovery (percent)*	*Control Limits (percent)*	*Sample ID*	*Analytes*	*Qualified Sample Results*	*Units*
SVOCs	2,4,6-Tribromophenol	11	33 - 122	GW-15620-062509-RR-029	4-Nitrophenol	ND 47 J	µg/L
	2-Fluorophenol	15	26 - 100		2,4-Dimethylphenol	ND 9.4 J	µg/L
					4-Methylphenol	ND 9.4 J	µg/L
					Phenol	0.83 J	µg/L
					2,4-Dichlorophenol	ND 1.9 J	µg/L
					2,4-Dinitrophenol	ND 47 J	µg/L
					4,6-Dinitro-2-methylphenol	ND 47 J	µg/L
					4-Chloro-3-methylphenol	ND 9.4 J	µg/L
					Pentachlorophenol	ND 9.4 J	µg/L
					2,4,6-Trichlorophenol	ND 9.4 J	µg/L
					2-Nitrophenol	ND 9.4 J	µg/L
					2-Methylphenol	ND 9.4 J	µg/L
					2-Chlorophenol	ND 9.4 J	µg/L
					2,4,5-Trichlorophenol	ND 9.4 J	µg/L
SVOCs	2,4,6-Tribromophenol	1.2	33 - 122	GW-15620-070109-MM-016	4-Nitrophenol	R	µg/L
	2-Fluorophenol	1.2	26 - 100		2,4-Dimethylphenol	R	µg/L
	Phenol-d5	8.7	30 - 102		4-Methylphenol	R	µg/L
					Phenol	R	µg/L
					2,4-Dichlorophenol	R	µg/L
					2,4-Dinitrophenol	R	µg/L
					4,6-Dinitro-2-methylphenol	R	µg/L
					4-Chloro-3-methylphenol	R	µg/L
					Pentachlorophenol	R	µg/L
					2,4,6-Trichlorophenol	R	µg/L
					2-Nitrophenol	R	µg/L
					2-Methylphenol	R	µg/L

TABLE 6

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING SURROGATE RECOVERIES
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Surrogate*	*Surrogate Recovery (percent)*	*Control Limits (percent)*	*Sample ID*	*Analytes*	*Qualified Sample Results*	*Units*
SVOCs	Phenol-d5	8.7	30 - 102	GW-15620-070109-MM-016	2-Chlorophenol	R	µg/L
					2,4,5-Trichlorophenol	R	µg/L
SVOCs	2,4,6-Tribromophenol	23	33 - 122	GW-15620-061809-MM-012	4-Nitrophenol	R	µg/L
	2-Fluorophenol	8.4	26 - 100		2,4-Dimethylphenol	R	µg/L
	Phenol-d5	24	30 - 102		4-Methylphenol	R	µg/L
					Phenol	R	µg/L
					2,4,6-Tribromophenol	R	µg/L
					2,4-Dichlorophenol	R	µg/L
					2-Fluorophenol	R	µg/L
					2,4-Dinitrophenol	R	µg/L
					4,6-Dinitro-2-methylphenol	R	µg/L
					4-Chloro-3-methylphenol	R	µg/L
					Pentachlorophenol	R	µg/L
					2,4,6-Trichlorophenol	R	µg/L
					2-Nitrophenol	R	µg/L
					2-Methylphenol	R	µg/L
					2-Chlorophenol	R	µg/L
					2,4,5-Trichlorophenol	R	µg/L
PCBs	Decachlorobiphenyl	148	50 - 140	GW-15620-062409-RR-025	Aroclor 1242	1.3 J	µg/L

Notes:

J = Estimated.
ND = Non-detect at Associated Value.
PCBs = Polychlorinated Biphenyls.
R = Rejected.
SVOCs = Semi-Volatile Organic Compounds.

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
SVOCs	6/28/2009	Caprolactam	8.0J	GW-15620-062509-RR-029	ND 47	µg/L
SVOCs	6/16/2009	Diethyl phthalate	3.9J	GW-15620-061109-MM-006	ND 1.4	µg/L
				GW-15620-061109-RR-013	ND 1.7	µg/L
				GW-15620-061109-RR-015	ND 2.1	µg/L
VOCs	6/25/2009	Methylene chloride	0.49J	GW-15620-061509-RR-019	ND 180	µg/L
VOCs	7/16/2009	Methylene chloride	300J	GW-15620-070609-RR-033	ND 500	µg/L
VOCs	8/5/2009	Trichloroethene	0.20J	GW-15620-072209-RW-064	ND 0.25	µg/L
				GW-15620-072209-RW-066	ND 0.14	µg/L
				GW-15620-072209-RW-068	ND 0.23	µg/L
				GW-15620-072209-RW-070	ND 0.22	µg/L
				GW-15620-072209-RW-072	ND 0.23	µg/L
				GW-15620-072209-RW-074	ND 4.2	µg/L
				GW-15620-072209-RW-076	ND 0.20	µg/L
Metals	6/9/2009	Aluminum	41.2	GW-15620-060909-MM-002	ND 137	µg/L
				GW-15620-060909-MM-004	ND 156	µg/L
				GW-15620-060909-RR-001	ND 88.1	µg/L
				GW-15620-060909-RR-003	ND 108	µg/L
	6/9/2009	Aluminum (Dissolved)	49.2	GW-15620-060909-MM-002	ND 64.4	µg/L
				GW-15620-060909-MM-004	ND 58.8	µg/L
				GW-15620-060909-RR-001	ND 66.5	µg/L
				GW-15620-060909-RR-003	ND 80.6	µg/L
	6/9/2009	Beryllium	0.31	GW-15620-060909-MM-002	ND 0.41	µg/L
				GW-15620-060909-MM-004	ND 0.45	µg/L

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QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER SAMPLING
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Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	6/9/2009	Beryllium	0.31	GW-15620-060909-RR-001	ND 0.47	µg/L
				GW-15620-060909-RR-003	ND 0.38	µg/L
	6/9/2009	Beryllium (Dissolved)	0.57	GW-15620-060909-MM-002	ND 0.52	µg/L
				GW-15620-060909-MM-004	ND 0.58	µg/L
				GW-15620-060909-RR-001	ND 0.50	µg/L
				GW-15620-060909-RR-003	ND 0.52	µg/L
	06/09/09	Zinc	5.3	GW-15620-060909-MM-002	ND 8.4	µg/L
				GW-15620-060909-MM-004	ND 5.6	µg/L
				GW-15620-060909-RR-001	ND 5.4	µg/L
				GW-15620-060909-RR-003	ND 4.1	µg/L
	06/09/09	Zinc (Dissolved)	2.9	GW-15620-060909-MM-002	ND 7.7	µg/L
				GW-15620-060909-MM-004	ND 5.5	µg/L
				GW-15620-060909-RR-001	ND 4.6	µg/L
				GW-15620-060909-RR-003	ND 5.0	µg/L
	06/09/09	Mercury	0.05	GW-15620-060909-MM-002	ND 0.064	µg/L
				GW-15620-060909-MM-004	ND 0.053	µg/L
				GW-15620-060909-RR-001	ND 0.056	µg/L
				GW-15620-060909-RR-003	ND 0.057	µg/L
	06/09/09	Mercury (Dissolved)	0.052	GW-15620-060909-MM-002	ND 0.064	µg/L
				GW-15620-060909-MM-004	ND 0.047	µg/L
				GW-15620-060909-RR-001	ND 0.049	µg/L
				GW-15620-060909-RR-003	ND 0.048	µg/L
	06/09/09	Thallium (Dissolved)	2.9	GW-15620-060909-MM-004	ND 2.7	µg/L
				GW-15620-060909-RR-001	ND 2.6	µg/L
				GW-15620-060909-RR-003	ND 3.4	µg/L

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Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	06/09/09	Potassium	228	GW-15620-060909-MM-004	ND 1100	µg/L
	06/09/09	Potassium (Dissolved)	228	GW-15620-060909-MM-004	ND 1070	µg/L
				GW-15620-060909-RR-001	ND 1060	µg/L
	06/28/09	Aluminum	35.4	GW-15620-061009-RR-005	ND 162	µg/L
				GW-15620-061009-RR-007	ND 50.5	µg/L
				GW-15620-061009-RR-009	ND 30.3	µg/L
				GW-15620-061009-RR-011	ND 42.1	µg/L
	06/28/09	Barium	2.6	GW-15620-061009-RR-005	ND 8.9	µg/L
				GW-15620-061009-RR-009	ND 1.9	µg/L
				GW-15620-061009-RR-011	ND 12.8	µg/L
	06/28/09	Sodium	1670	GW-15620-061009-RR-005	ND 7610	µg/L
	06/28/09	Zinc	3.1	GW-15620-061009-RR-005	ND 9.6	µg/L
				GW-15620-061009-RR-007	ND 10.6	µg/L
				GW-15620-061009-RR-009	ND 6.6	µg/L
				GW-15620-061009-RR-011	ND 6.2	µg/L
	06/28/09	Aluminum (Dissolved)	28.3	GW-15620-061009-RR-005	ND 27.6	µg/L
				GW-15620-061009-RR-007	ND 24.4	µg/L
				GW-15620-061009-RR-009	ND 22.6	µg/L
				GW-15620-061009-RR-011	ND 23.9	µg/L
	06/28/09	Zinc (Dissolved)	3.9	GW-15620-061009-RR-005	ND 7.0	µg/L
				GW-15620-061009-RR-007	ND 17.7	µg/L

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QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
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DIGHTON, MASSACHUSETTS
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Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	06/28/09	Zinc (Dissolved)	3.9	GW-15620-061009-RR-009	ND 8.2	µg/L
				GW-15620-061009-RR-011	ND 10.6	µg/L
	06/28/09	Chromium	0.8	GW-15620-061009-RR-005	ND 1.2	µg/L
				GW-15620-061009-RR-009	ND 1.0	µg/L
	06/28/09	Chromium Total (Dissolved)	0.8	GW-15620-061009-RR-005	ND 1.6	µg/L
	06/28/09	Thallium	3.4	GW-15620-061009-RR-005	ND 3.8	µg/L
				GW-15620-061009-RR-007	ND 3.7	µg/L
	06/24/09	Aluminum	66.1	GW-15620-061509-RR-017	ND 74.7	µg/L
				GW-15620-061509-RR-019	ND 197	µg/L
	06/25/09	Aluminum (Dissolved)	55.2	GW-15620-061509-RR-017	ND 70.6	µg/L
				GW-15620-061509-RR-019	ND 56.7	µg/L
	06/24/09	Beryllium	0.43	GW-15620-061509-RR-017	ND 0.52	µg/L
				GW-15620-061509-RR-019	ND 0.63	µg/L
	06/25/09	Beryllium (Dissolved)	0.57	GW-15620-061509-RR-017	ND 0.48	µg/L
				GW-15620-061509-RR-019	ND 0.51	µg/L
	06/24/09	Potassium	369	GW-15620-061509-RR-019	ND 1650	µg/L
	06/24/09	Zinc	4.0	GW-15620-061509-RR-017	ND 5.6	µg/L
				GW-15620-061509-RR-019	ND 8.1	µg/L
	06/25/09	Zinc (Dissolved)	3.0	GW-15620-061509-RR-017	ND 8.2	µg/L
				GW-15620-061509-RR-019	ND 3.4	µg/L

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QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
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Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	06/25/09	Thallium (Dissolved)	3.3	GW-15620-061509-RR-017	ND 3.7	µg/L
	06/18/09	Zinc	3.1	GW-15620-061109-MM-006	ND 2.9	µg/L
				GW-15620-061109-RR-015	ND 8.9	µg/L
	07/02/09	Zinc	2.7	GW-15620-062309-RR-021	ND 8.6	µg/L
				GW-15620-062309-RR-023	ND 3.7	µg/L
	07/02/09	Zinc (Dissolved)	4.4	GW-15620-062309-RR-021	ND 5.8	µg/L
				GW-15620-062309-RR-023	ND 12.4	µg/L
	06/24/09	Silver	1.4	GW-15620-061709-MM-008	ND 2.1	µg/L
				GW-15620-061709-MM-010	ND 0.97	µg/L
	06/24/09	Cadmium	0.22	GW-15620-061709-MM-010	ND 0.23	µg/L
	06/24/09	Chromium	0.96	GW-15620-061709-MM-010	ND 1.1	µg/L
	06/24/09	Iron	22.5	GW-15620-061709-MM-010	ND 29.7	µg/L
	06/24/09	Thallium	5.8	GW-15620-061709-MM-010	ND 4.3	µg/L
	06/25/09	Zinc	3.3	GW-15620-061709-MM-008	ND 4.1	µg/L
	06/24/09	Aluminum (Dissolved)	22.8	GW-15620-061709-MM-008	ND 28.3	µg/L
				GW-15620-061709-MM-010	ND 69.4	µg/L
	06/24/09	Thallium (Dissolved)	2.9	GW-15620-061709-MM-008	ND 3.6	µg/L
				GW-15620-061709-MM-010	ND 5.9	µg/L

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QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
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Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	06/24/09	Zinc (Dissolved)	4.1	GW-15620-061709-MM-008	ND 3.9	µg/L
	06/24/09	Aluminum	18.8	GW-15620-061709-MM-008	ND 29.2	µg/L
				GW-15620-061709-MM-010	ND 67.0	µg/L
	06/29/09	Aluminum	13.0	GW-15620-061809-MM-012	ND 29.6	µg/L
	06/29/09	Lead	1.4	GW-15620-061809-MM-014	ND 2.3	µg/L
	06/29/09	Aluminum (Dissolved)	15.3	GW-15620-061809-MM-012	ND 17.7	µg/L
	06/29/09	Thallium (Dissolved)	3.4	GW-15620-061809-MM-014	ND 4.8	µg/L
	06/29/09	Zinc (Dissolved)	3.8	GW-15620-061809-MM-012	ND 4.4	µg/L
	06/29/09	Chromium	0.8	GW-15620-061809-MM-014	ND 1.1	µg/L
	06/29/09	Potassium (Dissolved)	227	GW-15620-061809-MM-014	ND 648	µg/L
	07/27/09	Aluminum	12.2	GW-15620-070809-DS-018	ND 28.2	µg/L
				GW-15620-070809-DS-020	ND 25.6	µg/L
				GW-15620-070809-DS-022	ND 35.9	µg/L
				GW-15620-070809-DS-030	ND 55.5	µg/L
				GW-15620-070809-RR-049	ND 38.8	µg/L
				GW-15620-070909-DS-034	ND 21.9	µg/L
				GW-15620-070909-RR-053	ND 43.0	µg/L

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Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	07/27/09	Aluminum (Dissolved)	13.9	GW-15620-070809-DS-018	ND 14.6	µg/L
				GW-15620-070809-DS-020	ND 15.0	µg/L
				GW-15620-070809-DS-022	ND 19.7	µg/L
				GW-15620-070809-DS-030	ND 18.0	µg/L
				GW-15620-070809-DS-032	ND 22.2	µg/L
				GW-15620-070809-RR-049	ND 19.6	µg/L
				GW-15620-070809-RR-051	ND 29.9	µg/L
				GW-15620-070909-DS-034	ND 22.8	µg/L
				GW-15620-070909-RR-053	ND 26.0	µg/L
				GW-15620-070909-RR-055	ND 20.0	µg/L
	07/27/09	Zinc	3.5	GW-15620-070809-DS-018	ND 5.0	µg/L
				GW-15620-070809-DS-020	ND 12.7	µg/L
				GW-15620-070809-DS-022	ND 8.7	µg/L
				GW-15620-070809-DS-030	ND 4.2	µg/L
				GW-15620-070809-RR-049	ND 14.7	µg/L
				GW-15620-070809-RR-051	ND 8.3	µg/L
				GW-15620-070909-DS-034	ND 17.5	µg/L
	07/27/09	Thallium (Dissolved)	3.0	GW-15620-070809-DS-022	ND 2.6	µg/L
				GW-15620-070809-RR-051	ND 5.1	µg/L
				GW-15620-070909-DS-034	ND 4.2	µg/L
				GW-15620-070909-RR-053	ND 2.7	µg/L
				GW-15620-070909-RR-055	ND 3.1	µg/L
	07/27/09	Zinc (Dissolved)	5.7	GW-15620-070809-DS-018	ND 5.0	µg/L
				GW-15620-070809-DS-020	ND 9.2	µg/L
				GW-15620-070809-DS-022	ND 10.8	µg/L
				GW-15620-070809-DS-030	ND 7.9	µg/L
				GW-15620-070809-RR-049	ND 5.4	µg/L

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Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	07/27/09	Zinc (Dissolved)	5.7	GW-15620-070809-RR-051	ND 6.5	µg/L
				GW-15620-070909-DS-034	ND 12.0	µg/L
				GW-15620-070909-RR-053	ND 28.5	µg/L
				GW-15620-070909-RR-055	ND 7.1	µg/L
	07/27/09	Chromium	1.2	GW-15620-070809-RR-051	ND 4.7	µg/L
		Chromium Total (Dissolved)		GW-15620-070809-RR-051	ND 4.0	µg/L
	07/27/09	Potassium	221	GW-15620-070809-DS-022	ND 766	µg/L
	07/27/09	Potassium (Dissolved)	227	GW-15620-070809-DS-022	ND 794	µg/L
	07/09/09	Aluminum	34.1	GW-15620-063009-RR-031	ND 43.1	µg/L
				GW-15620-070109-MM-016	ND 33.6	µg/L
				GW-15620-070109-RR-035	ND 37.5	µg/L
	07/09/09	Aluminum (Dissolved)	29.4	GW-15620-063009-RR-031	ND 28.0	µg/L
				GW-15620-070109-MM-016	ND 28.5	µg/L
				GW-15620-070109-RR-035	ND 27.7	µg/L
	07/09/09	Lead	1.4	GW-15620-063009-RR-031	ND 2.0	µg/L
	07/09/09	Zinc	2.7	GW-15620-063009-RR-031	ND 4.2	µg/L
	07/14/09	Aluminum (Dissolved)	16.4	GW-15620-070609-RR-037	ND 20.6	µg/L
				GW-15620-070609-RR-039	ND 76.1	µg/L
	07/14/09	Aluminum	119	GW-15620-070609-RR-033	ND 139	µg/L
				GW-15620-070609-RR-037	ND 232	µg/L
				GW-15620-070609-RR-039	ND 361	µg/L
	07/14/09	Aluminum (Dissolved)	119	GW-15620-070609-RR-033	ND 112	µg/L

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Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	07/14/09	Barium (Dissolved)	0.74	GW-15620-070609-RR-039	ND 2.2	µg/L
	07/14/09	Chromium	0.6	GW-15620-070609-RR-039	ND 2.6	µg/L
		Chromium Total (Dissolved)		GW-15620-070609-RR-039	ND 1.2	µg/L
	07/14/09	Cobalt	0.4	GW-15620-070609-RR-037	ND 0.96	µg/L
				GW-15620-070609-RR-039	ND 0.58	µg/L
	07/14/09	Cobalt (Dissolved)		GW-15620-070609-RR-037	ND 0.83	µg/L
				GW-15620-070609-RR-039	ND 0.51	µg/L
	07/14/09	Iron	47.6	GW-15620-070609-RR-033	ND 62.3	µg/L
		Iron (Dissolved)		GW-15620-070609-RR-033	ND 46.3	µg/L
	07/20/09	Aluminum	21.8	GW-15620-070709-DS-024	ND 59.5	µg/L
				GW-15620-070709-DS-026	ND 48.2	µg/L
				GW-15620-070709-DS-028	ND 103	µg/L
				GW-15620-070709-RR-041	ND 42.9	µg/L
				GW-15620-070709-RR-047	ND 88.2	µg/L
	07/20/09	Beryllium	0.42	GW-15620-070709-DS-024	ND 0.48	µg/L
				GW-15620-070709-DS-026	ND 0.39	µg/L
				GW-15620-070709-DS-028	ND 0.37	µg/L
				GW-15620-070709-RR-041	ND 0.41	µg/L
				GW-15620-070709-RR-043	ND 0.44	µg/L
				GW-15620-070709-RR-045	ND 0.55	µg/L
				GW-15620-070709-RR-047	ND 0.37	µg/L
	07/20/09	Potassium	227	GW-15620-070709-RR-045	ND 950	µg/L

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Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	07/20/09	Aluminum (Dissolved)	28.3	GW-15620-070709-DS-024	ND 34.5	µg/L
				GW-15620-070709-DS-026	ND 33.7	µg/L
				GW-15620-070709-DS-028	ND 44.6	µg/L
				GW-15620-070709-RR-041	ND 32.5	µg/L
				GW-15620-070709-RR-043	ND 88.4	µg/L
				GW-15620-070709-RR-047	ND 33.9	µg/L
	07/20/09	Beryllium (Dissolved)	0.45	GW-15620-070709-DS-024	ND 0.45	µg/L
				GW-15620-070709-DS-026	ND 0.50	µg/L
				GW-15620-070709-DS-028	ND 0.42	µg/L
				GW-15620-070709-RR-041	ND 0.45	µg/L
				GW-15620-070709-RR-043	ND 0.42	µg/L
				GW-15620-070709-RR-045	ND 0.46	µg/L
				GW-15620-070709-RR-047	ND 0.43	µg/L
	07/20/09	Potassium (Dissolved)	221	GW-15620-070709-RR-045	ND 955	µg/L
	07/20/09	Thallium (Dissolved)	3.1	GW-15620-070709-DS-028	ND 4.1	µg/L
				GW-15620-070709-RR-041	ND 3.2	µg/L
	07/20/09	Chromium	1.1	GW-15620-070709-DS-024	ND 0.66	µg/L
				GW-15620-070709-DS-028	ND 0.80	µg/L
				GW-15620-070709-RR-045	ND 0.81	µg/L
				GW-15620-070709-RR-047	ND 1.7	µg/L
		Chromium Total (Dissolved)	1.1	GW-15620-070709-RR-045	ND 0.73	µg/L
				GW-15620-070709-RR-047	ND 0.76	µg/L
	07/20/09	Nickel	1.7	GW-15620-070709-DS-024	ND 3.2	µg/L
				GW-15620-070709-DS-026	ND 3.5	µg/L

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Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	07/20/09	Nickel	1.7	GW-15620-070709-DS-028	ND 6.1	µg/L
				GW-15620-070709-RR-041	ND 3.0	µg/L
				GW-15620-070709-RR-043	ND 3.0	µg/L
				GW-15620-070709-RR-045	ND 4.6	µg/L
				GW-15620-070709-RR-047	ND 8.5	µg/L
		Nickel (Dissolved)	1.7	GW-15620-070709-DS-024	ND 2.8	µg/L
				GW-15620-070709-DS-026	ND 3.4	µg/L
				GW-15620-070709-DS-028	ND 5.5	µg/L
				GW-15620-070709-RR-041	ND 3.0	µg/L
				GW-15620-070709-RR-043	ND 3.0	µg/L
				GW-15620-070709-RR-045	ND 4.1	µg/L
				GW-15620-070709-RR-047	ND 7.8	µg/L
	07/20/09	Iron	33.0	GW-15620-070709-DS-028	ND 96.1	µg/L
	07/20/09	Thallium	3.9	GW-15620-070709-DS-028	ND 3.4	µg/L
				GW-15620-070709-RR-041	ND 4.0	µg/L
	07/22/09	Aluminum	10.7	GW-15620-071009-DS-036	ND 41.0	µg/L
				GW-15620-071009-DS-038	ND 36.6	µg/L
	07/22/09	Chromium	0.60	GW-15620-071009-DS-036	ND 1.2	µg/L
				GW-15620-071009-DS-038	ND 1.1	µg/L
				GW-15620-071009-DS-040	ND 1.8	µg/L
				GW-15620-071009-RR-061	ND 1.2	µg/L
	07/22/09	Thallium	2.6	GW-15620-071009-RR-059	ND 5.0	µg/L
				GW-15620-071009-RR-061	ND 2.6	µg/L

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	07/22/09	Aluminum (Dissolved)	22.2	GW-15620-071009-DS-036	ND 17.4	µg/L
				GW-15620-071009-DS-038	ND 29.5	µg/L
				GW-15620-071009-DS-040	ND 22.1	µg/L
				GW-15620-071009-RR-061	ND 29.7	µg/L
	07/22/09	Cobalt (Dissolved)	0.51	GW-15620-071009-DS-038	ND 1.0	µg/L
	07/22/09	Beryllium	0.40	GW-15620-071009-RR-059	ND 2.8	µg/L
				GW-15620-071009-RR-061	ND 0.28	µg/L
		Beryllium (Dissolved)	0.40	GW-15620-071009-RR-059	ND 1.9	µg/L
	07/23/09	Cadmium	0.15	GW-15620-072009-RR-062	ND 0.15	µg/L
				GW-15620-072009-RR-063	ND 0.15	µg/L
	07/23/09	Zinc	4.8	GW-15620-072009-RR-062	ND 16.4	µg/L
				GW-15620-072009-RR-063	ND 7.0	µg/L
				GW-15620-072009-RR-065	ND 9.9	µg/L
	07/23/09	Iron (Dissolved)	12.7	GW-15620-072009-RR-063	ND 12.3	µg/L
	07/23/09	Thallium (Dissolved)	4.4	GW-15620-072009-RR-065	ND 4.1	µg/L
	07/23/09	Zinc (Dissolved)	5.4	GW-15620-072009-RR-062	ND 12.0	µg/L
				GW-15620-072009-RR-063	ND 7.3	µg/L
				GW-15620-072009-RR-065	ND 10.9	µg/L
	07/23/09	Chromium	0.6	GW-15620-072009-RR-062	ND 1.6	µg/L
				GW-15620-072009-RR-065	ND 0.69	µg/L
	07/23/09	Potassium (Dissolved)	218	GW-15620-072009-RR-065	ND 691	µg/L

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	07/23/09	Aluminum	13.5	GW-15620-072109-RR-067	ND 12.5	µg/L
	07/23/09	Aluminum (Dissolved)	20.4	GW-15620-072109-RR-067	ND 13.6	µg/L
				GW-15620-072109-RR-069	ND 18.9	µg/L
				GW-15620-072109-RW-42	ND 27.0	µg/L
				GW-15620-072109-RW-44	ND 25.4	µg/L
				GW-15620-072109-RW-46	ND 28.8	µg/L
				GW-15620-072109-RW-48	ND 18.0	µg/L
				GW-15620-072109-RW-50	ND 16.9	µg/L
	07/23/09	Lead	1.4	GW-15620-072109-RW-42	ND 3.8	µg/L
				GW-15620-072109-RW-46	ND 2.0	µg/L
				GW-15620-072109-RW-48	ND 2.5	µg/L
				GW-15620-072109-RW-50	ND 3.6	µg/L
	07/23/09	Cobalt	0.4	GW-15620-072109-RR-067	ND 0.95	µg/L
				GW-15620-072109-RW-42	ND 1.9	µg/L
				GW-15620-072109-RW-44	ND 1.4	µg/L
				GW-15620-072109-RW-46	ND 0.81	µg/L
				GW-15620-072109-RW-52	ND 1.8	µg/L
	07/23/09	Cobalt (Dissolved)	0.4	GW-15620-072109-RR-067	ND 1.1	µg/L
				GW-15620-072109-RW-44	ND 1.1	µg/L
				GW-15620-072109-RW-46	ND 0.65	µg/L
				GW-15620-072109-RW-52	ND 1.7	µg/L
	07/23/09	Cadmium	0.2	GW-15620-072109-RW-44	ND 0.17	µg/L
				GW-15620-072109-RW-48	ND 0.70	µg/L
				GW-15620-072109-RW-50	ND 0.65	µg/L
				GW-15620-072109-RW-52	ND 0.22	µg/L

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	07/23/09	Cadmium (Dissolved)	0.2	GW-15620-072109-RW-48	ND 0.79	µg/L
				GW-15620-072109-RW-50	ND 0.82	µg/L
				GW-15620-072109-RW-52	ND 0.25	µg/L
	07/23/09	Cobalt	0.8	GW-15620-072109-RW-48	ND 3.6	µg/L
				GW-15620-072109-RW-50	ND 3.4	µg/L
	07/23/09	Cobalt (Dissolved)	0.8	GW-15620-072109-RW-50	ND 3.9	µg/L
	07/23/09	Chromium	0.9	GW-15620-072109-RW-42	ND 2.3	µg/L
				GW-15620-072109-RW-44	ND 4.0	µg/L
				GW-15620-072109-RW-46	ND 1.1	µg/L
				GW-15620-072109-RW-48	ND 0.89	µg/L
				GW-15620-072109-RW-52	ND 2.5	µg/L
	07/23/09	Iron	12.8	GW-15620-072109-RR-067	ND 12.6	µg/L
				GW-15620-072109-RR-069	ND 39.0	µg/L
	07/31/09	Beryllium	0.5	GW-15620-072709-RR-091	ND 0.73	µg/L
		Beryllium (Dissolved)		GW-15620-072709-RR-091	ND 0.57	µg/L
	07/31/09	Cadmium	0.2	GW-15620-072709-RR-091	ND 0.74	µg/L
		Cadmium (Dissolved)		GW-15620-072709-RR-091	ND 0.67	µg/L
	07/31/09	Aluminum	30.6	GW-15620-072209-RR-073	ND 50.3	µg/L
				GW-15620-072209-RR-079	ND 141	µg/L
				GW-15620-072209-RW-056	ND 123	µg/L
				GW-15620-072209-RW-060	ND 37.8	µg/L
				GW-15620-072209-RW-066	ND 153	µg/L
				GW-15620-072209-RW-070	ND 44.5	µg/L

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	07/31/09	Aluminum	30.6	GW-15620-072209-RW-074	ND 52.5	µg/L
				GW-15620-072209-RW-076	ND 52.2	µg/L
	07/31/09	Zinc	9.5	GW-15620-072209-RR-071	ND 21.9	µg/L
				GW-15620-072209-RR-073	ND 4.1	µg/L
				GW-15620-072209-RR-075	ND 11.3	µg/L
				GW-15620-072209-RW-056	ND 26.4	µg/L
				GW-15620-072209-RW-058	ND 19.9	µg/L
				GW-15620-072209-RW-060	ND 20.9	µg/L
				GW-15620-072209-RW-064	ND 23.0	µg/L
				GW-15620-072209-RW-066	ND 23.2	µg/L
				GW-15620-072209-RW-068	ND 27.0	µg/L
				GW-15620-072209-RW-070	ND 13.6	µg/L
				GW-15620-072209-RW-072	ND 18.3	µg/L
				GW-15620-072209-RW-074	ND 10.9	µg/L
				GW-15620-072209-RW-076	ND 6.0	µg/L
	07/31/09	Aluminum (Dissolved)	29.8	GW-15620-072209-RR-071	ND 38.0	µg/L
				GW-15620-072209-RR-073	ND 50.3	µg/L
				GW-15620-072209-RR-075	ND 69.9	µg/L
				GW-15620-072209-RR-079	ND 49.3	µg/L
				GW-15620-072209-RW-056	ND 35.2	µg/L
				GW-15620-072209-RW-058	ND 50.0	µg/L
				GW-15620-072209-RW-060	ND 37.2	µg/L
				GW-15620-072209-RW-064	ND 37.0	µg/L
				GW-15620-072209-RW-066	ND 35.8	µg/L
				GW-15620-072209-RW-068	ND 68.9	µg/L
				GW-15620-072209-RW-070	ND 45.4	µg/L
				GW-15620-072209-RW-072	ND 40.9	µg/L
				GW-15620-072209-RW-074	ND 44.0	µg/L
				GW-15620-072209-RW-076	ND 39.3	µg/L

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	07/31/09	Beryllium (Dissolved)	0.31	GW-15620-072209-RR-071	ND 0.28	µg/L
				GW-15620-072209-RR-073	ND 0.23	µg/L
				GW-15620-072209-RR-075	ND 0.32	µg/L
				GW-15620-072209-RR-079	ND 0.24	µg/L
				GW-15620-072209-RW-054	ND 0.32	µg/L
				GW-15620-072209-RW-056	ND 0.35	µg/L
				GW-15620-072209-RW-058	ND 0.35	µg/L
				GW-15620-072209-RW-060	ND 0.32	µg/L
				GW-15620-072209-RW-064	ND 0.31	µg/L
				GW-15620-072209-RW-066	ND 0.30	µg/L
				GW-15620-072209-RW-068	ND 0.33	µg/L
				GW-15620-072209-RW-070	ND 0.28	µg/L
				GW-15620-072209-RW-072	ND 0.41	µg/L
				GW-15620-072209-RW-074	ND 0.35	µg/L
				GW-15620-072209-RW-076	ND 0.23	µg/L
	07/31/09	Zinc (Dissolved)	4.6	GW-15620-072209-RR-071	ND 5.4	µg/L
				GW-15620-072209-RR-073	ND 8.2	µg/L
				GW-15620-072209-RR-075	ND 10.2	µg/L
				GW-15620-072209-RW-056	ND 17.1	µg/L
				GW-15620-072209-RW-058	ND 4.3	µg/L
				GW-15620-072209-RW-060	ND 14.2	µg/L
				GW-15620-072209-RW-064	ND 5.4	µg/L
				GW-15620-072209-RW-066	ND 13.1	µg/L
				GW-15620-072209-RW-068	ND 17.8	µg/L
				GW-15620-072209-RW-070	ND 9.8	µg/L
				GW-15620-072209-RW-072	ND 14.0	µg/L
				GW-15620-072209-RW-076	ND 6.2	µg/L

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	07/31/09	Beryllium	0.4	GW-15620-072209-RR-075	ND 0.27	µg/L
				GW-15620-072209-RR-079	ND 0.25	µg/L
				GW-15620-072209-RW-054	ND 0.36	µg/L
				GW-15620-072209-RW-056	ND 0.27	µg/L
				GW-15620-072209-RW-058	ND 0.42	µg/L
				GW-15620-072209-RW-060	ND 0.30	µg/L
				GW-15620-072209-RW-064	ND 0.25	µg/L
				GW-15620-072209-RW-066	ND 0.26	µg/L
				GW-15620-072209-RW-068	ND 0.46	µg/L
				GW-15620-072209-RW-070	ND 0.24	µg/L
				GW-15620-072209-RW-072	ND 0.34	µg/L
				GW-15620-072209-RW-074	ND 0.25	µg/L
				GW-15620-072209-RW-076	ND 0.26	µg/L
	07/31/09	Chromium	1.0	GW-15620-072209-RR-071	ND 0.86	µg/L
				GW-15620-072209-RR-073	ND 4.4	µg/L
				GW-15620-072209-RR-075	ND 2.3	µg/L
				GW-15620-072209-RR-079	ND 2.0	µg/L
				GW-15620-072209-RW-056	ND 0.57	µg/L
				GW-15620-072209-RW-058	ND 2.6	µg/L
				GW-15620-072209-RW-064	ND 2.2	µg/L
				GW-15620-072209-RW-066	ND 0.78	µg/L
				GW-15620-072209-RW-068	ND 4.2	µg/L
				GW-15620-072209-RW-072	ND 0.65	µg/L
				GW-15620-072209-RW-074	ND 4.2	µg/L
				GW-15620-072209-RW-076	ND 1.2	µg/L
	07/31/09	Chromium Total (Dissolved)	1.0	GW-15620-072209-RR-071	ND 1.6	µg/L
				GW-15620-072209-RR-073	ND 4.5	µg/L
				GW-15620-072209-RR-075	ND 0.75	µg/L

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	07/31/09	Chromium Total (Dissolved)	1.0	GW-15620-072209-RR-079	ND 1.5	µg/L
				GW-15620-072209-RW-054	ND 5.0	µg/L
				GW-15620-072209-RW-058	ND 0.61	µg/L
				GW-15620-072209-RW-064	ND 1.1	µg/L
				GW-15620-072209-RW-068	ND 1.1	µg/L
				GW-15620-072209-RW-074	ND 3.9	µg/L
				GW-15620-072209-RW-076	ND 1.0	µg/L
	07/31/09	Potassium	236	GW-15620-072209-RR-071	ND 686	µg/L
				GW-15620-072209-RW-070	ND 1080	µg/L
	07/31/09	Potassium (Dissolved)	236	GW-15620-072209-RR-071	ND 665	µg/L
				GW-15620-072209-RW-068	ND 626	µg/L
				GW-15620-072209-RW-070	ND 925	µg/L
	07/31/09	Lead	1.3	GW-15620-072209-RW-074	ND 3.4	µg/L
	07/31/09	Lead (Dissolved)	1.3	GW-15620-072209-RR-073	ND 1.4	µg/L
				GW-15620-072209-RR-075	ND 1.5	µg/L
				GW-15620-072209-RW-070	ND 1.4	µg/L
	08/03/09	Aluminum	106	GW-15620-072309-RW-78	ND 293	µg/L
	08/03/09	Cadmium	0.2	GW-15620-072309-RW-78	ND 0.41	µg/L
	08/03/09	Cadmium (Dissolved)	0.2	GW-15620-072309-RR-081	ND 0.25	µg/L
				GW-15620-072309-RR-085	ND 0.35	µg/L
				GW-15620-072309-RW-82	ND 0.16	µg/L
	08/11/09	Barium	6.8	GW-15620-080409-RR-095	ND 9.8	µg/L

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	08/11/09	Cobalt	0.5	GW-15620-080409-RR-095	ND 1.5	µg/L
		Cobalt (Dissolved)		GW-15620-080409-RR-095	ND 2.0	µg/L
	08/11/09	Aluminum	59.3	GW-15620-080409-RR-095	ND 218	µg/L
	08/11/09	Beryllium (Dissolved)	0.7	GW-15620-080409-RR-095	ND 0.42	µg/L
	08/17/09	Mercury	0.049	GW-15620-080409-RR-095	ND 0.069	µg/L
General Chemistry	07/10/09	Sulfate	0.29	GW-15620-070909-DS-034	ND 1.0	mg/L
	07/02/09	Chloride	0.11	GW-15620-063009-RR-031	ND 0.50	mg/L
	07/15/09	Dissolved Organic Carbon (DOC)	0.20	GW-15620-070609-DS-020	ND 0.80	mg/L
				GW-15620-070609-DS-022	ND 0.54	mg/L
				GW-15620-070609-RR-033	ND 0.79	mg/L
	07/15/09	Dissolved Organic Carbon (DOC)	0.47	GW-15620-070609-DS-018	ND 1.1	mg/L
	07/07/09	Nitrate	0.030	GW-15620-070609-RR-037	ND 0.050	mg/L
	07/07/09	Nitrite	0.022	GW-15620-070609-DS-022	ND 0.064	mg/L
	07/14/09	Alkalinity, Total (as CaCO3)	1.5	GW-15620-070709-RR-045	ND 2.4	mg/L
	07/11/09	Nitrate	0.003	GW-15620-071009-DS-036	ND 0.011	mg/L
			0.002	GW-15620-071009-DS-040	ND 0.0080	mg/L

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	08/05/09	Dissolved Organic Carbon (DOC), Dissolved	0.42	GW-15620-072009-RR-062	ND 1.2	mg/L
			0.16	GW-15620-072009-RR-063	ND 0.75	mg/L
				GW-15620-072009-RR-065	ND 0.73	mg/L
	07/24/09	Sulfate	0.1	GW-15620-072209-RW-064	ND 0.44	mg/L
	07/24/09	Sulfate	0.16	GW-15620-072209-RW-068	ND 0.78	mg/L
	08/05/09	Dissolved Organic Carbon (DOC)	0.44	GW-15620-072309-RW-84	ND 1.9	mg/L
	08/06/09	Ammonia	0.077	GW-15620-080409-RR-095	ND 0.36	mg/L

Notes:

J = Estimated.
ND = Non-detect at Associated Value.
SVOCs = Semi-Volatile Organic Compounds.
VOCs = Volatile Organic Compounds.

TABLE 8

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Associated Sample ID*	*Analyte*	*MS Recovery (percent)*	*MSD Recovery (percent)*	*RPD*	*Control Limits*		*Qualified Sample Result*	*Units*
						Recovery (percent)	*RPD (percent)*		
VOCs	GW-15620-072309-RW-78	Chlorobenzene	123	131	1.9	80 - 120	29	15000 J	µg/L
SVOCs	GW-15620-072309-RW-78	2-Chlorophenol	9	8	2.4	34 - 100	31	R	µg/L
		Phenol	31	30	2.2	35 - 98	35	ND 0.22 J	µg/L
General Chemistry	GW-15620-072309-RR-081	Chloride	76	76	0	80-120	20	69.4 J	mg/L
	GW-15620-072309-RR-083							71.4 J	mg/L
	GW-15620-072309-RR-085							71.7 J	mg/L
	GW-15620-072309-RR-087							27.2 J	mg/L
	GW-15620-072309-RR-089							17.3 J	mg/L
	GW-15620-072309-RW-78							91.8 J	mg/L
	GW-15620-072309-RW-80							442 J	mg/L
	GW-15620-072309-RW-82							5.1 J	mg/L
	GW-15620-072309-RW-84							13.0 J	mg/L
	GW-15620-072309-RW-86							130 J	mg/L

Notes:

J = Estimated.
ND = Non-detect at Associated Value.
R = Rejected.
SVOCs = Semi-Volatile Organic Compounds.
VOCs = Volatile Organic Compounds.

TABLE 9

QUALIFIED SAMPLE DATA DUE TO OUTLYING ICP SERIAL DILUTION RESULTS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analyte*	*Serial Dilution Sample ID*	*%D*	*Associated Sample I.D.*	*Qualified Sample Results*	*Units*
Metals	Barium	GW-15620-061109-RR-013	18.8	GW-15620-061109-MM-006	12.5 J	µg/L
				GW-15620-061109-RR-013	17.7 J	µg/L
				GW-15620-061109-RR-015	4.0 J	µg/L
	Barium (Dissolved)	GW-15620-061109-RR-013	18.1	GW-15620-061109-MM-006	12.3 J	µg/L
				GW-15620-061109-RR-013	18.5 J	µg/L
				GW-15620-061109-RR-015	4.1 J	µg/L
	Potassium	GW-15620-061109-RR-013	28.6	GW-15620-061109-MM-006	979 J	µg/L
				GW-15620-061109-RR-013	2210 J	µg/L
				GW-15620-061109-RR-015	1290 J	µg/L
	Potassium (Dissolved)	GW-15620-061109-RR-013	31	GW-15620-061109-MM-006	1230 J	µg/L
				GW-15620-061109-RR-013	2340 J	µg/L
				GW-15620-061109-RR-015	1460 J	µg/L
	Sodium (Dissolved)	GW-15620-062309-RR-021	11.3	GW-15620-062309-RR-021	12400 J	µg/L
				GW-15620-062309-RR-023	9580 J	µg/L
	Zinc	GW-15620-061809-MM-012	13.9	GW-15620-061809-MM-012	148 J	µg/L
				GW-15620-061809-MM-014	21.0 J	µg/L
	Magnesium (Dissolved)	GW-15620-070609-RR-039	12.3	GW-15620-070609-RR-033	3860 J	µg/L
				GW-15620-070609-RR-037	4610 J	µg/L
				GW-15620-070609-RR-039	1270 J	µg/L

Notes:

J = Estimated.

TABLE 10

QUALIFIED SAMPLE DATA DUE TO VARIABILITY IN FIELD DUPLICATE RESULTS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Blank Date*	*Analyte*	*Blank Result*	*Associated Sample ID*	*Qualified Sample Result*	*Units*
VOCs	07/23/09	Methylene chloride	0.33J	GW-15620-072309-RW-80	ND 0.52	µg/L

Notes:

J = Estimated.
ND = Non-detect at Associated Value.
VOCs = Volatile Organic Compounds.

TABLE 11

QUALIFIED SAMPLE RESULTS DUE TO VARIABILITY IN FIELD DUPLICATE RESULTS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Analyte*	*Original Sample ID*	*Qualified Original Result*	*Duplicate Sample ID*	*Qualified Duplicate Result*	*RPD*	*Units*
General Chemistry	Nitrate	GW-15620-070609-DS-018	2.4J	GW-15620-070609-DS-020	ND 0.0077 J	"+/-0.05	mg/L
	Sulfate	GW-15620-072309-RR-083	14.5J	GW-15620-072309-RR-085	2.9J	133	mg/L

Notes:

(1) Qualifier is associated with both the original and duplicate sample.
J = Estimated.
ND = Non-detect at Associated Value.

TABLE 12

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE RINSE BLANKS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Parameter	*Rinse Blank Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
SVOCs	07/22/09	Caprolactam	8.7J	GW-15620-072209-RR-077	ND 8.7	µg/L
				GW-15620-072209-RW-066	ND 7.4	µg/L
				GW-15620-072209-RW-070	ND 9.6	µg/L
				GW-15620-072209-RW-076	ND 7.0	µg/L
Metals	07/27/09	Zinc	30.3	GW-15620-072709-RR-091	ND 150	µg/L
Metals	07/31/09	Iron (Dissolved)	13.0	GW-15620-072209-RR-071	ND 15.8	µg/L
Metals	07/22/09	Dissolved Organic Carbon (DOC), Dissolved	0.18	GW-15620-072209-RR-071	ND 0.36	mg/L
				GW-15620-072209-RW-056	ND 0.88	mg/L
				GW-15620-072209-RW-066	ND 0.54	mg/L
Metals	07/22/09	Ammonia	0.13	GW-15620-072209-RR-071	ND 0.52	mg/L
				GW-15620-072209-RR-075	ND 0.59	mg/L
				GW-15620-072209-RW-054	ND 0.47	mg/L
				GW-15620-072209-RW-056	ND 0.15	mg/L
				GW-15620-072209-RW-060	ND 0.48	mg/L
				GW-15620-072209-RW-066	ND 0.39	mg/L
				GW-15620-072209-RW-070	ND 0.37	mg/L
				GW-15620-072209-RW-072	ND 0.39	mg/L

Notes:

J = Estimated.
ND = Non-detect at Associated Value.
SVOC = Semi-Volatile Organic Compounds.

TABLE 13

QUALIFIED ANALYTICAL DATA DUE TO A DISCREPANCY IN THE TOTAL VS. DISSOLVED RESULTS
GROUNDWATER SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
JUNE TO AUGUST 2009

Analyte	*Sample ID*	*Qualified Total Result*	*Qualified Dissolved Result*	*Units*
Iron	GW-15620-072209-RW-060	45.5 J	307 J	µg/L
Manganese	GW-15620-072209-RW-060	48.8 J	170 J	µg/L
Calcium	GW-15620-072209-RW-058	37600 J	86500 J	µg/L
Magnesium	GW-15620-072209-RW-058	3380 J	6230 J	µg/L
Manganese	GW-15620-072209-RW-058	484 J	1200 J	µg/L
Potassium	GW-15620-072209-RW-058	8090 J	12800 J	µg/L
Sodium	GW-15620-072209-RW-058	15300 J	29300 J	µg/L
Calcium	GW-15620-070809-DS-032	21000 J	28300 J	µg/L
Magnesium	GW-15620-071009-RR-061	6840 J	7750 J	µg/L
Manganese	GW-15620-072109-RW-48	952 J	1200 J	µg/L
Sodium	GW-15620-070709-RR-045	7760 J	10700 J	µg/L

Notes:

J = Estimated.

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ANALYTICAL DATA ASSESSMENT AND VALIDATION
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

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1.0 INTRODUCTION

The following document details an assessment and validation of analytical data reported for soil samples collected from Zeneca, Inc. (Site) located in Dighton, Massachusetts. The samples were collected in August 2009 in support of the Supplemental Resource Conservation and Recovery Act (RCRA) Facilities Investigation.

A sampling and analysis summary is presented in Table 1. The samples were submitted to Test America, Inc. (Test America) in Pittsburgh, Pennsylvania, for analysis. A summary of the methods is presented in Table 2.

A summary of the analytical data is presented in Tables 3A and 3B. These data were validated in accordance with the analytical methods and the documents entitled:

i) "USEPA Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses; Part II. Volatile/Semi-Volatile Data Validation Functional Guidelines (1996)"

ii) "USEPA Region I Laboratory Data Validation Functional Guidelines for Inorganic Analyses (1989)"

iii) "Quality Assurance Project Plan Addendum, Supplemental RCRA Facilities Investigation, Dighton, Massachusetts, July 2003"

Full raw data deliverables were provided by the laboratories. A Tier II validation was performed on the data and the validation findings are presented in the following subsections.

2.0 SAMPLE HOLDING TIMES

Sample holding time and preservation requirements are summarized in the analytical methods. All sample extractions and/or analyses were performed within the specified holding times.

All samples were properly preserved and cooled to 4°C (±2°C) after collection.

3.0 INSTRUMENT CALIBRATION

3.1 GAS CHROMATOGRAPH/MASS SPECTROMETER (GC/MS) CALIBRATION - VOLATILE ORGANIC COMPOUNDS (VOCs) AND SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)

3.1.1 TUNING AND MASS CALIBRATION

Prior to analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the VOC and SVOC methods require the analysis of the specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Instrument tuning data were reviewed. Tuning compounds were analyzed at the required frequency throughout the VOC and SVOC analysis periods. All tuning criteria were met for the analyses, indicating proper optimization of the instrumentation.

3.1.2 INITIAL CALIBRATION

To quantify compounds of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity is evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.05.

ii) For average response factors are employed, percent relative standard deviation (%RSD) values must not exceed 30 percent.

The initial calibration data for VOCs and SVOCs were reviewed and met the above criteria for linearity and sensitivity.

3.1.3 CONTINUING CALIBRATION

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.05.

ii) Percent difference (%D) values must not exceed 25 percent.

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity of response with the exception of %D values for some VOCs and SVOCs, which exceeded the 25 percent criterion throughout the analysis period. All associated sample results were qualified as estimated to reflect variability in instrument response (see Table 4).

3.2 GAS CHROMATOGRAPH (GC) CALIBRATION-POLYCHLORINATED BIPHENYLS (PCBs)

3.2.1 INITIAL CALIBRATION

To quantify compounds of interest, calibration of the GC over a specific concentration range must be performed. Initially, six-point calibration curves are analyzed for all the compounds of interest with the exception of some PCBs. For the PCB analysis, Aroclors 1016 and 1260 are analyzed using a seven-point curve and one-point calibration standards are analyzed for the remaining Aroclors.

Linearity of the calibration curves are acceptable if %RSD values are less than or equal to 20 percent or if the correlation coefficient is greater than 0.995. Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

Initial calibration standards were analyzed at the required frequencies. All retention time and linearity criteria were satisfied.

3.2.2 CONTINUING CALIBRATION

To ensure that the calibration of the instrument is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound in all continuing standards and assessed against an acceptance criterion of 15 percent.

To ensure that compound retention times do not vary over the analysis period, all retention times must fall within the established retention time windows.

Continuing calibration standards were analyzed at the required frequency and all method criteria were met for analyte linearity.

3.3 INSTRUMENTAL CALIBRATION - METALS AND GENERAL CHEMISTRY

3.3.1 INITIAL CALIBRATION

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For trace inductively coupled plasma (ICP) analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury analyses, a calibration blank and a minimum of four standards must be analyzed to establish the analytical curve.

After calibration, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Instrument	*Inorganic Species*	*Control Limits (Percent)*
ICP	Metals	90 - 110
Cold Vapor Atomic Absorption (AA)	Mercury	80 - 120

Upon review of the data, it was determined that all inorganic calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that instrumentation used for these analyses were properly calibrated prior to sample analyses.

3.3.2 CONTINUING CALIBRATION

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

3.3.3 CONTRACT REQUIRED DETECTION LIMIT (CRDL) STANDARD ANALYSES

To verify the linearity of the ICP calibration near the detection limit, a standard is analyzed which contains the ICP analytes at specified concentrations. This standard must be analyzed at the beginning and end of each sample analysis run or a minimum of twice per 8-hour working shift.

Control limits of 80-120 percent were used to evaluate the data. The CRDL recoveries were acceptable with a few exceptions. All associated results were significantly greater than the CRDL and would not have been impacted by the implied variability at the detection limit.

4.0 SURROGATE SPIKE RECOVERIES - ORGANICS

In accordance with the methods employed, all samples, blanks, and standards analyzed for VOCs, SVOCs, and PCBs are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against method control limits. For the SVOC method, it is acceptable for one surrogate recovery per fraction (base neutral or acid phenolic) to fall outside of these limits, provided it is greater than 10 percent.

All surrogate recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy for these analyses.

5.0 INTERNAL STANDARD (IS) RECOVERIES - VOCs AND SVOCs

To correct for changes in GC/MS response and sensitivity, IS compounds are added to investigative samples and quality control samples prior to VOC and SVOC analyses. All results are calculated as a ratio of the IS response. The criteria by which the IS results are assessed are as follows:

i) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard.

ii) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard.

All sample IS results met the above criteria and were used to calculate all positive sample results.

6.0 METHOD BLANK ANALYSES

Method blanks are prepared from deionized water and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures. Additionally, continuing calibration blanks (CCBs) are routinely analyzed after each CCV for the inorganic parameters.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch and CCBs were analyzed for inorganic parameters after each CCV. The data were non-detect with the exception of low concentrations of various VOCs and metals observed in the method blanks and/or CCBs. All associated sample results within five times the blank concentration (ten times for common laboratory contaminants) were qualified as non-detect (see Table 5).

7.0 LABORATORY CONTROL SAMPLE (LCS) ANALYSES

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch. Some LCSs were prepared in duplicate to assess analytical precision.

LCSs were prepared and analyzed for all parameters and all recoveries were within the acceptable limits presented in the Quality Assurance Project Plan (QAPP).

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

MS/MSD samples are prepared using a representative subset of analytes for each parameter and analyzed with each sample batch for all parameters. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD are used to assess analytical precision.

All MS/MSD results were within the acceptable limits presented in the QAPP.

9.0 ICP SERIAL DILUTION

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of one per 20 investigative samples is analyzed at a five-fold dilution. For samples with sufficient analyte concentrations, the serial dilution results must agree within 10 percent of the original results.

Serial dilutions were performed and the results were acceptable.

10.0 ICP INTERFERENCE CHECK SAMPLE (ICS) ANALYSIS

To verify that proper inter-element and background correction factors have been established by the laboratory, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period.

ICS analysis results were evaluated for all samples. All ICS recoveries were within the established control limits of 80 to 120 percent.

11.0 ANALYTE REPORTING

Non-detect data were reported down to the laboratory's method detection limits (MDLs) for each analyte. Positive analyte detections less than the practical quantitation limit (PQL) but greater than the MDL were qualified as estimated (J).

12.0 CONCLUSION

Based on the assessment detailed in the foregoing, the data summarized in Table 3 are acceptable with the specific qualifications and exceptions noted herein.

TABLES

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

				Analysis/Parameters			
Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*TLC VOCs*	*TCL SVOCs*	*PCBs*	*TAL Metals*
SS-15620-080409-RR-001	SS-SS1	08/04/09	14:25	X	X	X	X
SS-15620-080409-RR-002	SS-SS2	08/04/09	14;44	X	X	X	X
SS-15620-080409-RR-003	SS-SS3	08/04/09	15:00	X	X	X	X
SS-15620-080409-RR-004	SS-SS4	08/04/09	15:15	X	X	X	X
SS-15620-080409-RR-005	SS-SL7	08/04/09	15:50	X	X	X	X
SS-15620-080409-RR-006	SS-SL8	08/04/09	16:10	X	X	X	X
SS-15620-080509-RR-007	SS-SL6	08/05/09	8:35	X	X	X	X
SS-15620-080509-RR-008	SS-SL5	08/05/09	9:00	X	X	X	X
SS-15620-080509-RR-009	SS-SL4	08/05/09	9:30	X	X	X	X
SS-15620-080509-RR-010	SS-SL2	08/05/09	9:40	X	X	X	X
SS-15620-080509-RR-011	SS-SL3	08/05/09	10:40	X	X	X	X
SS-15620-080509-RR-012	SS-SL1	08/05/09	11:10	X	X	X	X

Notes:

VOCs	Volatile Organic Compounds.
SVOCs	Semi-Volatile Organic Compounds.
PCBs	Polychlorinated Biphenyls.
TAL	Target Analyte List.
TCL	Target Compound List.

TABLE 2

METHODS SUMMARY
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

Parameter	*Methodology*
TCL VOCs	SW-846 8260[1]
TCL SVOCs	SW-846 8270[1]
TCL PCBs	SW-846 8082[1]
TAL Metals	SW-846 6010/7471[1]

Notes:

1	"Test Methods for Solid Waste Physical/Chemical Methods", SW-846, 3rd Edition, September 1986 (with all subsequent revisions).
2	"Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-220, March 1983.
PCBs	Polychlorinated Biphenyls.
SVOCs	Semi-Volatile Organic Compounds.
VOCs	Volatile Organic Compounds.
TCL	Target Compound List.
TAL	Target Analyte List

TABLE 3A

ANALYTICAL RESULTS SUMMARY - SEDIMENT
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-L1*	*SS-L2*	*SS-L3*	*SS-L4*	*SS-L5*
	Sample ID:	*SS-15620-080509-RR-012*	*SS-15620-080509-RR-010*	*SS-15620-080509-RR-011*	*SS-15620-080509-RR-009*	*SS-15620-080509-RR-008*
	Sample Date:	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*
Parameter	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/kg	ND (0.62)	ND (550)	ND (0.59)	ND (0.46)	ND (0.58)
1,1,2,2-Tetrachloroethane	µg/kg	ND (0.91)	ND (500)	ND (0.87)	ND (0.68)	ND (0.85)
1,1,2-Trichloroethane	µg/kg	ND (1.1)	ND (620)	ND (1.0)	ND (0.79)	ND (0.99)
1,1-Dichloroethane	µg/kg	ND (0.73)	ND (540)	ND (0.70)	ND (0.55)	ND (0.68)
1,1-Dichloroethene	µg/kg	ND (1.1)	ND (570)	ND (1.0)	ND (0.80)	ND (1.0)
1,2,3-Trichlorobenzene	µg/kg	ND (1.8)	59000 J	ND (6.0)	ND (0.80)	16
1,2,4-Trichlorobenzene	µg/kg	2.1 J	94000 J	7.6	ND (0.84)	10
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	ND (0.95)	ND (190)	ND (0.91)	ND (0.71)	ND (0.89)
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	ND (1.1)	ND (330)	ND (1.0)	ND (0.82)	ND (1.0)
1,2-Dichlorobenzene	µg/kg	ND (1.0)	23000	1.6 J	ND (0.76)	1.5 J
1,2-Dichloroethane	µg/kg	ND (0.78)	ND (510)	ND (0.74)	ND (0.58)	ND (0.73)
1,2-Dichloropropane	µg/kg	ND (0.69)	ND (680)	ND (0.66)	ND (0.52)	ND (0.65)
1,3-Dichlorobenzene	µg/kg	ND (0.83)	380 J	3.1 J	ND (0.62)	ND (0.78)
1,4-Dichlorobenzene	µg/kg	ND (0.81)	2900	3.2 J	ND (0.60)	1.1 J
2-Butanone (Methyl Ethyl Ketone)	µg/kg	ND (1.1) J	ND (580) J	ND (1.1) J	ND (0.84)	ND (1.0)
2-Hexanone	µg/kg	ND (0.87)	ND (300)	ND (0.84)	ND (0.65)	ND (0.82)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	ND (0.83)	ND (320)	ND (0.79)	ND (0.62)	ND (0.78)
Acetone	µg/kg	ND (6.3)	ND (2700) J	ND (6.1)	6.1 J	ND (5.9) J
Benzene	µg/kg	ND (0.85)	ND (530)	ND (0.82)	ND (0.64)	ND (0.80)
Bromodichloromethane	µg/kg	ND (0.71)	ND (500)	ND (0.68)	ND (0.53)	ND (0.67)
Bromoform	µg/kg	ND (0.56)	ND (570) J	ND (0.54)	ND (0.42)	ND (0.53)
Bromomethane (Methyl Bromide)	µg/kg	ND (0.94) J	ND (840) J	ND (0.90) J	ND (0.70) J	ND (0.88) J
Carbon disulfide	µg/kg	ND (0.65)	ND (570)	ND (0.62)	ND (0.49)	ND (0.61)
Carbon tetrachloride	µg/kg	ND (0.57)	ND (580)	ND (0.54)	ND (0.42)	ND (0.53)
Chlorobenzene	µg/kg	ND (0.96)	14000	ND (0.92)	1.6 J	ND (0.90)
Chloroethane	µg/kg	ND (2.0)	ND (400)	ND (1.9)	ND (1.5)	ND (1.8)
Chloroform (Trichloromethane)	µg/kg	ND (0.74)	ND (540)	ND (0.71)	ND (0.55)	ND (0.70)
Chloromethane (Methyl Chloride)	µg/kg	ND (1.1)	ND (500)	ND (1.0)	ND (0.81) J	ND (1.0) J
cis-1,2-Dichloroethene	µg/kg	ND (0.89)	ND (360)	ND (0.85)	ND (0.67)	ND (0.84)
cis-1,3-Dichloropropene	µg/kg	ND (0.86)	ND (390)	ND (0.82)	ND (0.64)	ND (0.81)
Cyclohexane	µg/kg	ND (0.47)	ND (320)	ND (0.45)	ND (0.35)	ND (0.44)
Dibromochloromethane	µg/kg	ND (0.90)	ND (350) J	ND (0.86)	ND (0.67)	ND (0.84)

TABLE 3A

ANALYTICAL RESULTS SUMMARY - SEDIMENT
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-L1*	*SS-L2*	*SS-L3*	*SS-L4*	*SS-L5*
	Sample ID:	*SS-15620-080509-RR-012*	*SS-15620-080509-RR-010*	*SS-15620-080509-RR-011*	*SS-15620-080509-RR-009*	*SS-15620-080509-RR-008*
	Sample Date:	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*
Parameter	***Units***					
Dichlorodifluoromethane (CFC-12)	µg/kg	ND (0.84) J	ND (340) J	ND (0.81) J	ND (0.63)	ND (0.79)
Volatile Organic Compounds (Cont'd.)						
Ethylbenzene	µg/kg	ND (0.81)	ND (330)	ND (0.78)	ND (0.61)	ND (0.76)
Isopropylbenzene	µg/kg	ND (0.86)	ND (280)	ND (0.82)	ND (0.64)	ND (0.81)
Methyl acetate	µg/kg	ND (1.1)	ND (660)	ND (1.1)	ND (0.85)	8.8
Methyl cyclohexane	µg/kg	ND (0.92)	ND (300)	ND (0.88)	ND (0.69)	ND (0.86)
Methyl Tert Butyl Ether	µg/kg	ND (0.95)	ND (550)	ND (0.91)	ND (0.71) J	ND (0.89) J
Methylene chloride	µg/kg	ND (0.85)	ND (580)	ND (0.82)	ND (0.64)	ND (0.80)
Styrene	µg/kg	ND (0.89)	ND (340)	ND (0.86)	ND (0.67)	ND (0.84)
Tetrachloroethene	µg/kg	ND (0.86)	ND (440)	ND (0.83)	ND (0.65)	ND (0.81)
Toluene	µg/kg	ND (0.92)	21000	2.4 J	ND (0.69)	ND (0.87)
trans-1,2-Dichloroethene	µg/kg	ND (0.75)	ND (400)	ND (0.72)	ND (0.57)	ND (0.71)
trans-1,3-Dichloropropene	µg/kg	ND (0.76)	ND (310)	ND (0.73)	ND (0.57)	ND (0.71)
Trichloroethene	µg/kg	ND (0.83)	ND (430)	ND (0.80)	ND (0.62)	ND (0.78)
Trichlorofluoromethane (CFC-11)	µg/kg	ND (1.2)	ND (600)	ND (1.1)	ND (0.87)	ND (1.1)
Trifluorotrichloroethane (Freon 113)	µg/kg	ND (1.4)	ND (180)	ND (1.3)	ND (1.0)	ND (1.3)
Vinyl chloride	µg/kg	ND (0.59)	ND (690)	ND (0.57)	ND (0.45)	ND (0.56)
Xylene (total)	µg/kg	ND (2.8)	ND (1100)	ND (2.7)	ND (2.1)	ND (2.7)
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/kg	ND (8.3)	ND (8.2)	ND (8.7)	ND (8.2)	ND (8.3)
2,4,5-Trichlorophenol	µg/kg	ND (4.7)	100 J	ND (4.9)	ND (4.6)	ND (4.7)
2,4,6-Trichlorophenol	µg/kg	ND (9.5)	91 J	ND (9.9)	ND (9.3)	ND (9.5)
2,4-Dichlorophenol	µg/kg	ND (7.7)	24 J	ND (8.1)	ND (7.6)	ND (7.7)
2,4-Dimethylphenol	µg/kg	ND (8.0)	ND (7.9)	ND (8.3)	ND (7.8)	ND (8.0)
2,4-Dinitrophenol	µg/kg	1200 J	1700 J	280 J	ND (60) J	ND (61) J
2,4-Dinitrotoluene	µg/kg	ND (8.9)	ND (8.8)	ND (9.3)	ND (8.7)	ND (8.9)
2,6-Dinitrotoluene	µg/kg	ND (9.7)	ND (9.6)	ND (10)	ND (9.5)	ND (9.7)
2-Chloronaphthalene	µg/kg	190	440	25 J	ND (5.0)	ND (5.2)
2-Chlorophenol	µg/kg	ND (5.9)	16 J	ND (6.1)	ND (5.7)	ND (5.9)
2-Methylnaphthalene	µg/kg	ND (7.5)	ND (7.4)	ND (7.8)	ND (7.3)	ND (7.5)
2-Methylphenol	µg/kg	ND (7.0)	21 J	ND (7.3)	ND (6.9)	ND (7.0)
2-Nitroaniline	µg/kg	ND (12)	ND (12)	ND (12)	ND (11)	ND (12)

TABLE 3A

ANALYTICAL RESULTS SUMMARY - SEDIMENT
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-L1*	*SS-L2*	*SS-L3*	*SS-L4*	*SS-L5*
	Sample ID:	*SS-15620-080509-RR-012*	*SS-15620-080509-RR-010*	*SS-15620-080509-RR-011*	*SS-15620-080509-RR-009*	*SS-15620-080509-RR-008*
	Sample Date:	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*
Parameter	*Units*					
2-Nitrophenol	µg/kg	ND (7.3)	ND (7.2)	ND (7.6)	ND (7.1)	ND (7.3)
3,3'-Dichlorobenzidine	µg/kg	ND (36)	ND (36)	ND (37)	ND (35)	ND (36)
Semi-Volatile Organic Compounds (Cont'd.)						
3-Nitroaniline	µg/kg	ND (6.2)	ND (6.2)	ND (6.5)	ND (6.1)	ND (6.2)
4,6-Dinitro-2-methylphenol	µg/kg	ND (180) J	ND (180) J	ND (190) J	ND (180) J	ND (180) J
4-Bromophenyl phenyl ether	µg/kg	ND (8.1)	ND (8.0)	ND (8.4)	ND (7.9)	ND (8.1)
4-Chloro-3-methylphenol	µg/kg	ND (5.7)	ND (5.6)	ND (5.9)	ND (5.6)	ND (5.7)
4-Chloroaniline	µg/kg	38 J	ND (5.8)	ND (6.1)	11 J	ND (5.9)
4-Chlorophenyl phenyl ether	µg/kg	ND (8.4)	ND (8.3)	ND (8.8)	ND (8.2)	ND (8.4)
4-Methylphenol	µg/kg	ND (8.3)	ND (8.3)	39 J	ND (8.2)	ND (8.4)
4-Nitroaniline	µg/kg	ND (9.3)	ND (9.2)	ND (9.7)	ND (9.1)	ND (9.3)
4-Nitrophenol	µg/kg	ND (110)	ND (110)	ND (120)	ND (110)	ND (110)
Acenaphthene	µg/kg	8.1 J	ND (6.1)	ND (6.4)	ND (6.0)	ND (6.1)
Acenaphthylene	µg/kg	65	11 J	ND (7.9)	ND (7.4)	ND (7.6)
Acetophenone	µg/kg	ND (8.8)	ND (8.7)	ND (9.2)	ND (8.6)	ND (8.8)
Aniline	µg/kg	200	330	73 J	ND (8.2)	ND (8.3)
Anthracene	µg/kg	56	28 J	ND (7.0)	ND (6.5)	ND (6.7)
Atrazine	µg/kg	ND (9.0)	ND (8.9)	ND (9.4)	ND (8.8)	ND (9.0)
Benzaldehyde	µg/kg	ND (5.0)	120 J	130 J	ND (4.9)	ND (5.0)
Benzo(a)anthracene	µg/kg	290	89	ND (6.3)	ND (6.0)	ND (6.1)
Benzo(a)pyrene	µg/kg	310	100	32 J	ND (10)	ND (11)
Benzo(b)fluoranthene	µg/kg	390	86	24 J	ND (7.5)	ND (7.7)
Benzo(g,h,i)perylene	µg/kg	160	48	ND (2.9)	ND (2.7)	ND (2.8)
Benzo(k)fluoranthene	µg/kg	ND (7.9)	ND (7.9)	ND (8.3)	ND (7.8)	ND (7.9)
Biphenyl (1,1-Biphenyl)	µg/kg	ND (8.7)	12 J	ND (9.0)	ND (8.5)	ND (8.7)
bis(2-Chloroethoxy)methane	µg/kg	ND (7.6)	ND (7.6)	ND (8.0)	ND (7.5)	ND (7.7)
bis(2-Chloroethyl)ether	µg/kg	ND (3.3)	240	140	ND (3.3)	ND (3.3)
bis(2-Ethylhexyl)phthalate	µg/kg	110 J	67 J	30 J	29 J	39 J
Butyl benzylphthalate	µg/kg	ND (13)	60 J	18 J	31 J	ND (13)
Caprolactam	µg/kg	ND (25)	97 J	ND (26)	ND (24)	78 J
Carbazole	µg/kg	22 J	ND (5.0)	ND (5.2)	ND (4.9)	ND (5.0)
Chrysene	µg/kg	320	100	ND (6.9)	ND (6.5)	ND (6.7)
Dibenz(a,h)anthracene	µg/kg	35 J	20 J	ND (8.7)	ND (8.2)	ND (8.4) J

TABLE 3A

ANALYTICAL RESULTS SUMMARY - SEDIMENT
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-L1*	*SS-L2*	*SS-L3*	*SS-L4*	*SS-L5*
	Sample ID:	*SS-15620-080509-RR-012*	*SS-15620-080509-RR-010*	*SS-15620-080509-RR-011*	*SS-15620-080509-RR-009*	*SS-15620-080509-RR-008*
	Sample Date:	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*
Parameter	*Units*					
Dibenzofuran	µg/kg	8.8 J	ND (6.4)	ND (6.7)	ND (6.3)	ND (6.5)
Diethyl phthalate	µg/kg	ND (11)	ND (11)	ND (11)	ND (11)	ND (11)
Dimethyl phthalate	µg/kg	ND (6.4)	ND (6.4)	ND (6.7)	ND (6.3)	ND (6.4)
Semi-Volatile Organic Compounds (Cont'd.)						
Di-n-butylphthalate	µg/kg	24 J	27 J	ND (11)	11 J	12 J
Di-n-octyl phthalate	µg/kg	ND (4.9)	ND (4.9)	ND (5.1)	ND (4.8)	ND (4.9)
Fluoranthene	µg/kg	330	220	18 J	ND (3.1)	ND (3.2)
Fluorene	µg/kg	ND (5.7)	ND (5.7)	ND (6.0)	ND (5.6)	ND (5.8)
Hexachlorobenzene	µg/kg	27 J	ND (7.1)	ND (7.5)	ND (7.1)	ND (7.2)
Hexachlorobutadiene	µg/kg	ND (8.1)	ND (8.0)	ND (8.4)	ND (7.9)	ND (8.1)
Hexachlorocyclopentadiene	µg/kg	ND (7.2) J	ND (7.2) J	ND (7.5) J	ND (7.1) J	ND (7.3) J
Hexachloroethane	µg/kg	ND (6.4)	ND (6.4)	ND (6.7)	ND (6.3)	ND (6.5)
Indeno(1,2,3-cd)pyrene	µg/kg	150	45	ND (2.2)	ND (2.0)	ND (2.1)
Isophorone	µg/kg	ND (7.4)	ND (7.3)	ND (7.7)	ND (7.3)	ND (7.4)
Naphthalene	µg/kg	450	360	140	33 J	8.8 J
Nitrobenzene	µg/kg	360	4100	210	32 J	ND (9.6)
N-Nitrosodi-n-propylamine	µg/kg	ND (11)	ND (10)	ND (11)	ND (10)	ND (11)
N-Nitrosodiphenylamine	µg/kg	ND (7.8)	ND (7.7)	ND (8.1)	ND (7.6)	ND (7.8)
Pentachlorophenol	µg/kg	ND (33)	65 J	ND (34)	ND (32)	ND (33)
Phenanthrene	µg/kg	110	160	11 J	ND (4.5)	ND (4.6)
Phenol	µg/kg	92	34 J	33 J	ND (7.4)	ND (7.6)
Pyrene	µg/kg	250	160	16 J	ND (9.9)	ND (10)
Metals						
Aluminum	mg/kg	8320	9020	7140	7570	8980
Antimony	mg/kg	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.19)
Arsenic	mg/kg	10.5	8.3	6.6	5.3	5.4
Barium	mg/kg	95.5	40.5	30.3	24.4	23.4
Beryllium	mg/kg	ND (0.072)	ND (0.065)	ND (0.11)	ND (0.12)	ND (0.032)
Cadmium	mg/kg	0.14 J	0.11 J	0.12 J	0.12 J	0.098 J
Calcium	mg/kg	859	766	1120	991	592
Chromium	mg/kg	25.8	22.0	16.7	9.7	10.9
Cobalt	mg/kg	6.7	5.3 J	6.8	7.5	5.3 J

TABLE 3A

ANALYTICAL RESULTS SUMMARY - SEDIMENT
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-L1*	*SS-L2*	*SS-L3*	*SS-L4*	*SS-L5*
	Sample ID:	*SS-15620-080509-RR-012*	*SS-15620-080509-RR-010*	*SS-15620-080509-RR-011*	*SS-15620-080509-RR-009*	*SS-15620-080509-RR-008*
	Sample Date:	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*
Parameter	***Units***					
Copper	mg/kg	61.8	74.6	83.4	17.0	35.4
Iron	mg/kg	15600	18100	14500	14800	17900
Lead	mg/kg	255	69.9	49.6	13.1	9.6
Magnesium	mg/kg	2740	2910	2450	2640	2890
Metals (Cont'd.)						
Manganese	mg/kg	247	257	254	271	239
Mercury	mg/kg	9.5	10.9	12.1	2.1	0.15
Nickel	mg/kg	12.5	11.8	17.8	11.7	12.2
Potassium	mg/kg	629	783	625	711	807
Selenium	mg/kg	ND (0.24)	ND (0.24)	ND (0.25)	ND (0.23)	ND (0.24)
Silver	mg/kg	ND (0.066)	ND (0.066)	ND (0.069)	ND (0.065)	ND (0.066)
Sodium	mg/kg	47.0 J	41.8 J	145 J	63.0 J	36.8 J
Thallium	mg/kg	0.29 J	0.25 J	0.29 J	0.23 J	ND (0.24)
Vanadium	mg/kg	11.6	13.9	10.9	13.1	11.9
Zinc	mg/kg	42.2	29.7	55.8	27.5	28.5
Polychlorinated Biphenyls						
Aroclor-1016 (PCB-1016)	µg/kg	ND (2.8)	ND (2.8)	ND (3.0)	ND (2.8)	ND (2.8)
Aroclor-1221 (PCB-1221)	µg/kg	ND (3.6)	ND (3.6)	ND (3.8)	ND (3.6)	ND (3.6)
Aroclor-1232 (PCB-1232)	µg/kg	ND (3.3)	ND (3.3)	ND (3.4)	ND (3.2)	ND (3.3)
Aroclor-1242 (PCB-1242)	µg/kg	ND (3.1)	ND (3.1)	ND (3.2)	ND (3.1)	ND (3.1)
Aroclor-1248 (PCB-1248)	µg/kg	3400	1500	3300	130	ND (1.8)
Aroclor-1254 (PCB-1254)	µg/kg	1200	520	1100	63	9.2 J
Aroclor-1260 (PCB-1260)	µg/kg	220	ND (2.7)	220	ND (2.7)	ND (2.7)
General Chemistry						
Total Solids	%	87.7	87.5	84.0	88.6	87.5

TABLE 3A

ANALYTICAL RESULTS SUMMARY - SEDIMENT
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-L6*	*SS-L7*	*SS-L8*
	Sample ID:	*SS-15620-080509-RR-007*	*SS-15620-080409-RR-005*	*SS-15620-080409-RR-006*
	Sample Date:	*8/5/2009*	*8/4/2009*	*8/4/2009*
Parameter	*Units*			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	ND (0.50)	ND (0.47)	ND (0.56)
1,1,2,2-Tetrachloroethane	µg/kg	ND (0.74)	ND (0.69)	ND (0.82)
1,1,2-Trichloroethane	µg/kg	ND (0.86)	ND (0.80)	ND (0.95)
1,1-Dichloroethane	µg/kg	ND (0.59)	ND (0.55)	ND (0.66)
1,1-Dichloroethene	µg/kg	1.6 J	ND (0.81)	ND (0.97)
1,2,3-Trichlorobenzene	µg/kg	16	ND (0.81)	ND (0.97)
1,2,4-Trichlorobenzene	µg/kg	10	ND (0.84)	ND (1.0)
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	ND (0.77)	ND (0.72)	ND (0.86)
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	ND (0.89)	ND (0.83)	ND (0.99)
1,2-Dichlorobenzene	µg/kg	1.8 J	ND (0.76)	ND (0.92)
1,2-Dichloroethane	µg/kg	ND (0.63)	ND (0.59)	ND (0.70)
1,2-Dichloropropane	µg/kg	ND (0.56)	ND (0.52)	ND (0.62)
1,3-Dichlorobenzene	µg/kg	ND (0.68)	ND (0.63)	ND (0.75)
1,4-Dichlorobenzene	µg/kg	0.98 J	ND (0.61)	ND (0.73)
2-Butanone (Methyl Ethyl Ketone)	µg/kg	ND (0.91)	ND (0.84)	ND (1.0)
2-Hexanone	µg/kg	ND (0.71)	ND (0.66)	ND (0.79)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	ND (0.67)	ND (0.63)	ND (0.75)
Acetone	µg/kg	5.9 J	ND (4.8) J	ND (5.7) J
Benzene	µg/kg	ND (0.69)	ND (0.65)	ND (0.78)
Bromodichloromethane	µg/kg	ND (0.58)	ND (0.54)	ND (0.64)
Bromoform	µg/kg	ND (0.46)	ND (0.42)	ND (0.51)
Bromomethane (Methyl Bromide)	µg/kg	ND (0.76) J	ND (0.71) J	ND (0.85) J
Carbon disulfide	µg/kg	ND (0.53)	ND (0.49)	ND (0.59)
Carbon tetrachloride	µg/kg	ND (0.46)	ND (0.43)	ND (0.51)
Chlorobenzene	µg/kg	2.2 J	ND (0.73)	ND (0.87)
Chloroethane	µg/kg	ND (1.6)	ND (1.5)	ND (1.8)
Chloroform (Trichloromethane)	µg/kg	ND (0.60)	ND (0.56)	ND (0.67)
Chloromethane (Methyl Chloride)	µg/kg	ND (0.88) J	ND (0.82) J	ND (0.98) J
cis-1,2-Dichloroethene	µg/kg	ND (0.72)	ND (0.67)	ND (0.81)
cis-1,3-Dichloropropene	µg/kg	ND (0.70)	ND (0.65)	ND (0.78)
Cyclohexane	µg/kg	ND (0.38)	ND (0.36)	ND (0.43)
Dibromochloromethane	µg/kg	ND (0.73)	ND (0.68)	ND (0.81)

TABLE 3A

ANALYTICAL RESULTS SUMMARY - SEDIMENT
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-L6*	*SS-L7*	*SS-L8*
	Sample ID:	*SS-15620-080509-RR-007*	*SS-15620-080409-RR-005*	*SS-15620-080409-RR-006*
	Sample Date:	*8/5/2009*	*8/4/2009*	*8/4/2009*
Parameter	***Units***			
Dichlorodifluoromethane (CFC-12)	µg/kg	ND (0.68)	ND (0.64)	ND (0.76)
Volatile Organic Compounds (Cont'd.)				
Ethylbenzene	µg/kg	ND (0.66)	ND (0.62)	ND (0.74)
Isopropylbenzene	µg/kg	ND (0.70)	ND (0.65)	ND (0.78)
Methyl acetate	µg/kg	9.3	ND (0.86)	ND (1.0)
Methyl cyclohexane	µg/kg	ND (0.75)	ND (0.69)	ND (0.83)
Methyl Tert Butyl Ether	µg/kg	ND (0.77) J	ND (0.72)	ND (0.86) J
Methylene chloride	µg/kg	ND (0.69)	ND (0.64)	ND (0.77)
Styrene	µg/kg	ND (0.73)	ND (0.68)	ND (0.81)
Tetrachloroethene	µg/kg	ND (0.70)	ND (0.65)	ND (0.78)
Toluene	µg/kg	17	ND (0.70)	ND (0.84)
trans-1,2-Dichloroethene	µg/kg	ND (0.61)	ND (0.57)	ND (0.68)
trans-1,3-Dichloropropene	µg/kg	ND (0.61)	ND (0.57)	ND (0.69)
Trichloroethene	µg/kg	ND (0.68)	ND (0.63)	ND (0.76)
Trichlorofluoromethane (CFC-11)	µg/kg	ND (0.95)	ND (0.88)	ND (1.1)
Trifluorotrichloroethane (Freon 113)	µg/kg	ND (1.1)	ND (1.0)	ND (1.2)
Vinyl chloride	µg/kg	ND (0.48)	ND (0.45)	ND (0.54)
Xylene (total)	µg/kg	ND (2.3)	ND (2.1)	ND (2.6)
Semi-Volatile Organic Compounds				
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/kg	ND (8.2)	ND (8.4)	ND (8.3)
2,4,5-Trichlorophenol	µg/kg	ND (4.6)	ND (4.7)	ND (4.7)
2,4,6-Trichlorophenol	µg/kg	ND (9.3)	ND (9.6)	ND (9.4)
2,4-Dichlorophenol	µg/kg	ND (7.6)	ND (7.8)	ND (7.7)
2,4-Dimethylphenol	µg/kg	ND (7.8)	ND (8.1)	ND (8.0)
2,4-Dinitrophenol	µg/kg	610 J	ND (62) J	ND (61) J
2,4-Dinitrotoluene	µg/kg	ND (8.7)	ND (9.0)	ND (8.9)
2,6-Dinitrotoluene	µg/kg	ND (9.5)	ND (9.8)	ND (9.7)
2-Chloronaphthalene	µg/kg	80	ND (5.2)	ND (5.1)
2-Chlorophenol	µg/kg	ND (5.7)	ND (5.9)	ND (5.8)
2-Methylnaphthalene	µg/kg	ND (7.3)	ND (7.6)	ND (7.5)
2-Methylphenol	µg/kg	ND (6.9)	ND (7.1)	ND (7.0)
2-Nitroaniline	µg/kg	ND (11)	ND (12)	ND (12)

TABLE 3A

ANALYTICAL RESULTS SUMMARY - SEDIMENT
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-L6*	*SS-L7*	*SS-L8*
	Sample ID:	*SS-15620-080509-RR-007*	*SS-15620-080409-RR-005*	*SS-15620-080409-RR-006*
	Sample Date:	*8/5/2009*	*8/4/2009*	*8/4/2009*
Parameter	*Units*			
2-Nitrophenol	µg/kg	ND (7.1)	ND (7.3)	ND (7.2)
3,3'-Dichlorobenzidine	µg/kg	ND (35)	ND (36)	ND (36)
Semi-Volatile Organic Compounds (Cont'd.)				
3-Nitroaniline	µg/kg	ND (6.1)	ND (6.3)	ND (6.2)
4,6-Dinitro-2-methylphenol	µg/kg	ND (180) J	ND (190) J	ND (180) J
4-Bromophenyl phenyl ether	µg/kg	ND (7.9)	ND (8.2)	ND (8.1)
4-Chloro-3-methylphenol	µg/kg	ND (5.6)	ND (5.7)	ND (5.7)
4-Chloroaniline	µg/kg	48 J	ND (6.0)	ND (5.9)
4-Chlorophenyl phenyl ether	µg/kg	ND (8.2)	ND (8.5)	ND (8.4)
4-Methylphenol	µg/kg	ND (8.2)	ND (8.4)	ND (8.3)
4-Nitroaniline	µg/kg	ND (9.1)	ND (9.4)	ND (9.3)
4-Nitrophenol	µg/kg	ND (110)	ND (110)	ND (110)
Acenaphthene	µg/kg	ND (6.0)	ND (6.2)	ND (6.1)
Acenaphthylene	µg/kg	ND (7.4)	ND (7.7)	ND (7.6)
Acetophenone	µg/kg	ND (8.6)	ND (8.9)	ND (8.7)
Aniline	µg/kg	260	ND (8.4)	ND (8.3)
Anthracene	µg/kg	ND (6.5)	ND (6.7)	ND (6.6)
Atrazine	µg/kg	ND (8.8)	ND (9.1)	ND (9.0)
Benzaldehyde	µg/kg	ND (4.9)	ND (5.0)	ND (5.0)
Benzo(a)anthracene	µg/kg	33 J	13 J	ND (6.1)
Benzo(a)pyrene	µg/kg	63	15 J	ND (11)
Benzo(b)fluoranthene	µg/kg	42	17 J	ND (7.7)
Benzo(g,h,i)perylene	µg/kg	20 J	13 J	ND (2.8)
Benzo(k)fluoranthene	µg/kg	ND (7.8)	ND (8.0)	ND (7.9)
Biphenyl (1,1-Biphenyl)	µg/kg	ND (8.5)	ND (8.8)	ND (8.6)
bis(2-Chloroethoxy)methane	µg/kg	ND (7.5)	ND (7.7)	ND (7.6)
bis(2-Chloroethyl)ether	µg/kg	ND (3.3)	ND (3.4)	ND (3.3)
bis(2-Ethylhexyl)phthalate	µg/kg	100 J	51 J	31 J
Butyl benzylphthalate	µg/kg	ND (13)	37 J	29 J
Caprolactam	µg/kg	ND (24)	ND (25)	88 J
Carbazole	µg/kg	ND (4.9)	ND (5.1)	ND (5.0)
Chrysene	µg/kg	55	22 J	ND (6.6)
Dibenz(a,h)anthracene	µg/kg	18 J	ND (8.5)	ND (8.3)

TABLE 3A

ANALYTICAL RESULTS SUMMARY - SEDIMENT
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-L6*	*SS-L7*	*SS-L8*
	Sample ID:	*SS-15620-080509-RR-007*	*SS-15620-080409-RR-005*	*SS-15620-080409-RR-006*
	Sample Date:	*8/5/2009*	*8/4/2009*	*8/4/2009*
Parameter	*Units*			
Dibenzofuran	µg/kg	ND (6.3)	ND (6.5)	ND (6.4)
Diethyl phthalate	µg/kg	ND (11)	ND (11)	ND (11)
Dimethyl phthalate	µg/kg	ND (6.3)	ND (6.5)	ND (6.4)
Semi-Volatile Organic Compounds (Cont'd.)				
Di-n-butylphthalate	µg/kg	ND (10)	ND (11)	14 J
Di-n-octyl phthalate	µg/kg	ND (4.8)	ND (5.0)	ND (4.9)
Fluoranthene	µg/kg	74	ND (3.2)	ND (3.2)
Fluorene	µg/kg	ND (5.6)	ND (5.8)	ND (5.7)
Hexachlorobenzene	µg/kg	73	ND (7.3)	ND (7.2)
Hexachlorobutadiene	µg/kg	ND (7.9)	ND (8.2)	ND (8.1)
Hexachlorocyclopentadiene	µg/kg	ND (7.1) J	ND (7.3) J	ND (7.2) J
Hexachloroethane	µg/kg	ND (6.3)	ND (6.5)	ND (6.4)
Indeno(1,2,3-cd)pyrene	µg/kg	20 J	9.7 J	ND (2.1)
Isophorone	µg/kg	ND (7.3)	ND (7.5)	ND (7.4)
Naphthalene	µg/kg	320	16 J	12 J
Nitrobenzene	µg/kg	370	ND (9.7)	ND (9.5)
N-Nitrosodi-n-propylamine	µg/kg	ND (10)	ND (11)	ND (11)
N-Nitrosodiphenylamine	µg/kg	ND (7.6)	ND (7.9)	ND (7.8)
Pentachlorophenol	µg/kg	58 J	ND (33)	ND (33)
Phenanthrene	µg/kg	17 J	ND (4.6)	ND (4.5)
Phenol	µg/kg	67	ND (7.6)	ND (7.5)
Pyrene	µg/kg	64	18 J	ND (10)
Metals				
Aluminum	mg/kg	4980	8090	8090
Antimony	mg/kg	ND (0.18)	ND (0.19)	ND (0.19)
Arsenic	mg/kg	6.4	5.7	6.3
Barium	mg/kg	23.2	24.1	21.9 J
Beryllium	mg/kg	ND (0.067)	ND (0.13)	ND (0.12)
Cadmium	mg/kg	0.059 J	0.13 J	0.098 J
Calcium	mg/kg	664	757	761
Chromium	mg/kg	12.3	10.9	9.5
Cobalt	mg/kg	3.6 J	8.7	6.4

TABLE 3A

ANALYTICAL RESULTS SUMMARY - SEDIMENT
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-L6*	*SS-L7*	*SS-L8*
	Sample ID:	*SS-15620-080509-RR-007*	*SS-15620-080409-RR-005*	*SS-15620-080409-RR-006*
	Sample Date:	*8/5/2009*	*8/4/2009*	*8/4/2009*
Parameter	***Units***			
Copper	mg/kg	51.0	16.3	23.4
Iron	mg/kg	10700	16600	16000
Lead	mg/kg	19.6	29.9	10.5
Magnesium	mg/kg	1720	2900	2750
Metals (Cont'd.)				
Manganese	mg/kg	158	268	238
Mercury	mg/kg	19.6	0.81	0.58
Nickel	mg/kg	7.0	13.9	11.9
Potassium	mg/kg	528 J	659	708
Selenium	mg/kg	ND (0.23)	ND (0.24)	ND (0.24)
Silver	mg/kg	ND (0.065)	ND (0.067)	ND (0.066)
Sodium	mg/kg	27.2 J	35.2 J	32.8 J
Thallium	mg/kg	0.26 J	0.41 J	0.31 J
Vanadium	mg/kg	8.7	12.3	11.8
Zinc	mg/kg	18.1	38.7	28.4
Polychlorinated Biphenyls				
Aroclor-1016 (PCB-1016)	µg/kg	ND (2.8)	ND (2.9)	ND (2.8)
Aroclor-1221 (PCB-1221)	µg/kg	ND (3.6)	ND (3.7)	ND (3.6)
Aroclor-1232 (PCB-1232)	µg/kg	ND (3.2)	ND (3.3)	ND (3.2)
Aroclor-1242 (PCB-1242)	µg/kg	ND (3.0)	ND (3.1)	ND (3.1)
Aroclor-1248 (PCB-1248)	µg/kg	2600	ND (1.8)	ND (1.8)
Aroclor-1254 (PCB-1254)	µg/kg	890	30	10 J
Aroclor-1260 (PCB-1260)	µg/kg	ND (2.6)	ND (2.7)	ND (2.7)
General Chemistry				
Total Solids	%	89.4	86.7	88.0

TABLE 3B

ANALYTICAL RESULTS SUMMARY - SOIL
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-SS1*	*SS-SS2*	*SS-SS3*	*SS-SS4*
	Sample ID:	*SS-15620-080409-RR-001*	*SS-15620-080409-RR-002*	*SS-15620-080409-RR-003*	*SS-15620-080409-RR-004*
	Sample Date:	*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*
Parameter	*Units*				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	ND (0.48)	ND (0.58)	ND (0.58)	ND (0.47)
1,1,2,2-Tetrachloroethane	µg/kg	ND (0.70)	ND (0.86)	ND (0.85)	ND (0.70)
1,1,2-Trichloroethane	µg/kg	ND (0.82)	ND (0.99)	ND (0.99)	ND (0.81)
1,1-Dichloroethane	µg/kg	ND (0.56)	ND (0.69)	ND (0.68)	ND (0.56)
1,1-Dichloroethene	µg/kg	ND (0.83)	ND (1.0)	ND (1.0)	ND (0.83)
1,2,3-Trichlorobenzene	µg/kg	ND (0.83)	ND (1.0)	ND (1.0)	ND (0.82)
1,2,4-Trichlorobenzene	µg/kg	ND (0.86)	ND (1.1)	ND (1.0)	ND (0.86)
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	ND (0.73)	ND (0.89)	ND (0.89)	ND (0.73)
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	ND (0.85)	ND (1.0)	ND (1.0)	ND (0.84)
1,2-Dichlorobenzene	µg/kg	ND (0.78)	ND (0.95)	ND (0.95)	ND (0.78)
1,2-Dichloroethane	µg/kg	ND (0.60)	ND (0.73)	ND (0.73)	ND (0.60)
1,2-Dichloropropane	µg/kg	ND (0.53)	ND (0.65)	ND (0.64)	ND (0.53)
1,3-Dichlorobenzene	µg/kg	ND (0.64)	ND (0.78)	ND (0.78)	ND (0.64)
1,4-Dichlorobenzene	µg/kg	ND (0.62)	ND (0.76)	ND (0.75)	ND (0.62)
2-Butanone (Methyl Ethyl Ketone)	µg/kg	ND (0.86)	ND (1.1)	ND (1.0)	ND (0.86)
2-Hexanone	µg/kg	ND (0.68)	ND (0.82)	ND (0.82)	ND (0.67)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	ND (0.64)	ND (0.78)	ND (0.77)	ND (0.64)
Acetone	µg/kg	ND (4.9) J	9.7 J	ND (5.9) J	ND (4.9) J
Benzene	µg/kg	ND (0.66)	ND (0.81)	ND (0.80)	ND (0.66)
Bromodichloromethane	µg/kg	ND (0.55)	ND (0.67)	ND (0.67)	ND (0.55)
Bromoform	µg/kg	ND (0.43)	ND (0.53)	ND (0.52)	ND (0.43)
Bromomethane (Methyl Bromide)	µg/kg	ND (0.72) J	ND (0.88) J	ND (0.88) J	ND (0.72) J
Carbon disulfide	µg/kg	ND (0.50)	ND (0.61)	ND (0.61)	ND (0.50)
Carbon tetrachloride	µg/kg	ND (0.44)	ND (0.53)	ND (0.53)	ND (0.44)
Chlorobenzene	µg/kg	ND (0.74)	ND (0.90)	ND (0.90)	ND (0.74)
Chloroethane	µg/kg	ND (1.5)	ND (1.8)	ND (1.8)	ND (1.5)
Chloroform (Trichloromethane)	µg/kg	ND (0.57)	ND (0.70)	ND (0.69)	ND (0.57)
Chloromethane (Methyl Chloride)	µg/kg	ND (0.84) J	ND (1.0) J	ND (1.0) J	ND (0.83) J
cis-1,2-Dichloroethene	µg/kg	ND (0.69)	ND (0.84)	ND (0.83)	ND (0.69)
cis-1,3-Dichloropropene	µg/kg	ND (0.66)	ND (0.81)	ND (0.80)	ND (0.66)

TABLE 3B

ANALYTICAL RESULTS SUMMARY - SOIL
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-SS1*	*SS-SS2*	*SS-SS3*	*SS-SS4*
	Sample ID:	*SS-15620-080409-RR-001*	*SS-15620-080409-RR-002*	*SS-15620-080409-RR-003*	*SS-15620-080409-RR-004*
	Sample Date:	*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*
Parameter	*Units*				
Cyclohexane	µg/kg	ND (0.36)	ND (0.44)	ND (0.44)	ND (0.36)
Dibromochloromethane	µg/kg	ND (0.70)	ND (0.85)	ND (0.84)	ND (0.69)
Volatile Organic Compounds (Cont'd.)					
Dichlorodifluoromethane (CFC-12)	µg/kg	ND (0.65)	ND (0.79)	ND (0.79)	ND (0.65)
Ethylbenzene	µg/kg	ND (0.63)	ND (0.77)	ND (0.76)	ND (0.63)
Isopropylbenzene	µg/kg	ND (0.67)	ND (0.81)	ND (0.80)	ND (0.66)
Methyl acetate	µg/kg	ND (0.88)	ND (1.1)	ND (1.1)	ND (0.88)
Methyl cyclohexane	µg/kg	ND (0.71)	ND (0.87)	ND (0.86)	ND (0.71)
Methyl Tert Butyl Ether	µg/kg	ND (0.73)	ND (0.89)	ND (0.89)	ND (0.73)
Methylene chloride	µg/kg	ND (0.66)	ND (0.80)	ND (0.80)	ND (0.66)
Styrene	µg/kg	ND (0.69)	ND (0.84)	ND (0.84)	ND (0.69)
Tetrachloroethene	µg/kg	ND (0.67)	ND (0.81)	ND (0.81)	ND (0.66)
Toluene	µg/kg	ND (0.72)	ND (0.87)	ND (0.86)	ND (0.71)
trans-1,2-Dichloroethene	µg/kg	ND (0.58)	ND (0.71)	ND (0.71)	ND (0.58)
trans-1,3-Dichloropropene	µg/kg	ND (0.59)	ND (0.71)	ND (0.71)	ND (0.58)
Trichloroethene	µg/kg	ND (0.65)	ND (0.79)	ND (0.78)	ND (0.64)
Trichlorofluoromethane (CFC-11)	µg/kg	ND (0.90)	ND (1.1)	ND (1.1)	ND (0.90)
Trifluorotrichloroethane (Freon 113)	µg/kg	ND (1.0)	ND (1.3)	ND (1.3)	ND (1.0)
Vinyl chloride	µg/kg	ND (0.46)	ND (0.56)	ND (0.56)	ND (0.46)
Xylene (total)	µg/kg	ND (2.2)	ND (2.7)	ND (2.7)	ND (2.2)
Semi-Volatile Organic Compounds					
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/kg	ND (8.1)	ND (8.6)	ND (8.2)	ND (8.3)
2,4,5-Trichlorophenol	µg/kg	ND (4.6)	ND (4.9)	ND (4.6)	ND (4.7)
2,4,6-Trichlorophenol	µg/kg	ND (9.3)	ND (9.8)	ND (9.4)	ND (9.4)
2,4-Dichlorophenol	µg/kg	ND (7.5)	ND (8.0)	ND (7.6)	ND (7.7)
2,4-Dimethylphenol	µg/kg	ND (7.8)	ND (8.3)	ND (7.9)	ND (7.9)
2,4-Dinitrophenol	µg/kg	ND (60) J	ND (63) J	ND (61) J	ND (61) J
2,4-Dinitrotoluene	µg/kg	ND (8.7)	ND (9.2)	ND (8.8)	11 J
2,6-Dinitrotoluene	µg/kg	ND (9.5)	ND (10)	ND (9.6)	ND (9.7)
2-Chloronaphthalene	µg/kg	ND (5.0)	ND (5.3)	ND (5.1)	ND (5.1)

TABLE 3B

ANALYTICAL RESULTS SUMMARY - SOIL
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-SS1*	*SS-SS2*	*SS-SS3*	*SS-SS4*
	Sample ID:	*SS-15620-080409-RR-001*	*SS-15620-080409-RR-002*	*SS-15620-080409-RR-003*	*SS-15620-080409-RR-004*
	Sample Date:	*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*
Parameter	*Units*				
2-Chlorophenol	µg/kg	ND (5.7)	ND (6.1)	ND (5.8)	ND (5.8)
2-Methylnaphthalene	µg/kg	ND (7.3)	13 J	ND (7.4)	27 J
2-Methylphenol	µg/kg	ND (6.9)	ND (7.3)	ND (7.0)	ND (7.0)
2-Nitroaniline	µg/kg	ND (11)	ND (12)	ND (12)	ND (12)
Semi-Volatile Organic Compounds (Cont'd.)					
2-Nitrophenol	µg/kg	ND (7.1)	ND (7.5)	ND (7.2)	ND (7.2)
3,3'-Dichlorobenzidine	µg/kg	ND (35)	ND (37)	ND (36)	ND (36)
3-Nitroaniline	µg/kg	ND (6.1)	ND (6.4)	ND (6.2)	ND (6.2)
4,6-Dinitro-2-methylphenol	µg/kg	ND (180) J	ND (190) J	ND (180) J	ND (180) J
4-Bromophenyl phenyl ether	µg/kg	ND (7.9)	ND (8.4)	ND (8.0)	ND (8.1)
4-Chloro-3-methylphenol	µg/kg	ND (5.5)	ND (5.9)	ND (5.6)	ND (5.6)
4-Chloroaniline	µg/kg	ND (5.7)	ND (6.1)	ND (5.8)	ND (5.9)
4-Chlorophenyl phenyl ether	µg/kg	ND (8.2)	ND (8.7)	ND (8.3)	ND (8.4)
4-Methylphenol	µg/kg	ND (8.2)	ND (8.7)	ND (8.3)	25 J
4-Nitroaniline	µg/kg	ND (9.1)	ND (9.6)	ND (9.2)	ND (9.3)
4-Nitrophenol	µg/kg	ND (110)	ND (120)	ND (110)	ND (110)
Acenaphthene	µg/kg	ND (6.0)	7.7 J	ND (6.0)	ND (6.1)
Acenaphthylene	µg/kg	8.2 J	43	12 J	51
Acetophenone	µg/kg	ND (8.6)	ND (9.1)	ND (8.7)	21 J
Aniline	µg/kg	ND (8.1)	ND (8.6)	ND (8.2)	ND (8.3)
Anthracene	µg/kg	8.9 J	46	36 J	32 J
Atrazine	µg/kg	ND (8.8)	ND (9.3)	ND (8.9)	ND (9.0)
Benzaldehyde	µg/kg	ND (4.9)	130 J	120 J	130 J
Benzo(a)anthracene	µg/kg	24 J	240	40	49
Benzo(a)pyrene	µg/kg	21 J	240	44	56
Benzo(b)fluoranthene	µg/kg	31 J	410	68	140
Benzo(g,h,i)perylene	µg/kg	20 J	210	46	140
Benzo(k)fluoranthene	µg/kg	13 J	ND (8.2)	ND (7.8)	ND (7.9)
Biphenyl (1,1-Biphenyl)	µg/kg	ND (8.5)	ND (9.0)	ND (8.6)	ND (8.6)
bis(2-Chloroethoxy)methane	µg/kg	ND (7.5)	ND (7.9)	ND (7.6)	ND (7.6)
bis(2-Chloroethyl)ether	µg/kg	ND (3.3)	ND (3.5)	ND (3.3)	ND (3.3)

TABLE 3B

ANALYTICAL RESULTS SUMMARY - SOIL
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-SS1*	*SS-SS2*	*SS-SS3*	*SS-SS4*
	Sample ID:	*SS-15620-080409-RR-001*	*SS-15620-080409-RR-002*	*SS-15620-080409-RR-003*	*SS-15620-080409-RR-004*
	Sample Date:	*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*
Parameter	*Units*				
bis(2-Ethylhexyl)phthalate	µg/kg	130 J	140 J	34 J	62 J
Butyl benzylphthalate	µg/kg	ND (13)	61 J	48 J	120 J
Caprolactam	µg/kg	ND (24)	ND (26)	ND (25)	130 J
Carbazole	µg/kg	ND (4.9)	28 J	ND (4.9)	14 J
Chrysene	µg/kg	30 J	320	51	130
Dibenz(a,h)anthracene	µg/kg	ND (8.2)	41	ND (8.3)	22 J
Semi-Volatile Organic Compounds (Cont'd.)					
Dibenzofuran	µg/kg	ND (6.3)	10 J	ND (6.4)	ND (6.4)
Diethyl phthalate	µg/kg	ND (11)	ND (11)	ND (11)	ND (11)
Dimethyl phthalate	µg/kg	ND (6.3)	ND (6.6)	ND (6.3)	ND (6.4)
Di-n-butylphthalate	µg/kg	ND (10)	ND (11)	11 J	23 J
Di-n-octyl phthalate	µg/kg	ND (4.8)	ND (5.1)	ND (4.8)	ND (4.9)
Fluoranthene	µg/kg	26 J	520	57	79
Fluorene	µg/kg	ND (5.6)	ND (5.9)	ND (5.7)	ND (5.7)
Hexachlorobenzene	µg/kg	ND (7.0)	ND (7.5)	ND (7.1)	ND (7.2)
Hexachlorobutadiene	µg/kg	ND (7.9)	ND (8.4)	ND (8.0)	ND (8.0)
Hexachlorocyclopentadiene	µg/kg	ND (7.1) J	ND (7.5) J	ND (7.2) J	ND (7.2) J
Hexachloroethane	µg/kg	ND (6.3)	ND (6.7)	ND (6.4)	ND (6.4)
Indeno(1,2,3-cd)pyrene	µg/kg	19 J	160	37 J	94
Isophorone	µg/kg	ND (7.2)	ND (7.7)	ND (7.3)	ND (7.4)
Naphthalene	µg/kg	ND (5.4)	18 J	15 J	67
Nitrobenzene	µg/kg	ND (9.4)	ND (9.9)	ND (9.5)	66
N-Nitrosodi-n-propylamine	µg/kg	ND (10)	ND (11)	ND (10)	ND (11)
N-Nitrosodiphenylamine	µg/kg	ND (7.6)	ND (8.1)	ND (7.7)	ND (7.8)
Pentachlorophenol	µg/kg	ND (32)	ND (34)	ND (33)	ND (33)
Phenanthrene	µg/kg	17 J	200	32 J	47
Phenol	µg/kg	ND (7.4)	ND (7.8)	ND (7.5)	ND (7.5)
Pyrene	µg/kg	30 J	410	58	73
Metals					
Aluminum	mg/kg	5830	8730	6910	5790

TABLE 3B

ANALYTICAL RESULTS SUMMARY - SOIL
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-SS1*	*SS-SS2*	*SS-SS3*	*SS-SS4*
	Sample ID:	*SS-15620-080409-RR-001*	*SS-15620-080409-RR-002*	*SS-15620-080409-RR-003*	*SS-15620-080409-RR-004*
	Sample Date:	*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*
Parameter	***Units***				
Antimony	mg/kg	ND (0.18)	ND (0.19)	0.30 J	0.19 J
Arsenic	mg/kg	3.2	4.3	6.3	6.3
Barium	mg/kg	18.5 J	23.3 J	27.5	100
Beryllium	mg/kg	ND (0.089)	ND (0.074)	ND (0.14)	ND (0.062)
Cadmium	mg/kg	0.15 J	0.11 J	0.14 J	0.21 J
Calcium	mg/kg	669	1120	743	855
Chromium	mg/kg	7.2	10.3	72.1	16.7
Cobalt	mg/kg	5.8	4.2 J	7.9	4.5 J
Metals (Cont'd.)					
Copper	mg/kg	6.2	8.4	12.5	28.1
Iron	mg/kg	9860	10700	13400	14200
Lead	mg/kg	10.0	34.9	368	218
Magnesium	mg/kg	1680	1590	1980	2110
Manganese	mg/kg	150	150	315	191
Mercury	mg/kg	0.080	0.19	0.27	2.8
Nickel	mg/kg	8.7	8.4	9.3	10.6
Potassium	mg/kg	387 J	588 J	611	596
Selenium	mg/kg	ND (0.33)	ND (0.39)	ND (0.23)	ND (0.37)
Silver	mg/kg	ND (0.065)	ND (0.069)	ND (0.065)	0.066 J
Sodium	mg/kg	30.6 J	55.6 J	37.3 J	36.8 J
Thallium	mg/kg	0.23 J	ND (0.24)	0.28 J	0.37 J
Vanadium	mg/kg	11.3	16.9	12.6	14.9
Zinc	mg/kg	30.3	29.8	31.4	42.8
Polychlorinated Biphenyls					
Aroclor-1016 (PCB-1016)	µg/kg	ND (2.8)	ND (2.9)	ND (2.8)	ND (2.8)
Aroclor-1221 (PCB-1221)	µg/kg	ND (3.5)	ND (3.8)	ND (3.6)	ND (3.6)
Aroclor-1232 (PCB-1232)	µg/kg	ND (3.2)	ND (3.4)	ND (3.2)	ND (3.2)
Aroclor-1242 (PCB-1242)	µg/kg	ND (3.0)	ND (3.2)	ND (3.1)	ND (3.1)
Aroclor-1248 (PCB-1248)	µg/kg	ND (1.8)	ND (1.9)	ND (1.8)	260
Aroclor-1254 (PCB-1254)	µg/kg	ND (2.6)	ND (2.8)	13 J	200

TABLE 3B

ANALYTICAL RESULTS SUMMARY - SOIL
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-SS1*	*SS-SS2*	*SS-SS3*	*SS-SS4*
	Sample ID:	*SS-15620-080409-RR-001*	*SS-15620-080409-RR-002*	*SS-15620-080409-RR-003*	*SS-15620-080409-RR-004*
	Sample Date:	*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*
Parameter	***Units***				
Aroclor-1260 (PCB-1260)	µg/kg	ND (2.6)	ND (2.8)	ND (2.7)	110
General Chemistry					
Total Solids	%	89.7	84.6	88.6	88.2

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	08/10/09	Bromomethane	54	SS-15620-080409-RR-001	ND 0.72 J	µg/Kg
				SS-15620-080409-RR-002	ND 0.88 J	µg/Kg
				SS-15620-080409-RR-003	ND 0.88 J	µg/Kg
				SS-15620-080409-RR-004	ND 0.72 J	µg/Kg
				SS-15620-080409-RR-005	ND 0.71 J	µg/Kg
VOCs	08/10/09	Chloromethane	56	SS-15620-080409-RR-001	ND 0.84 J	µg/Kg
				SS-15620-080409-RR-002	ND 1.0 J	µg/Kg
				SS-15620-080409-RR-003	ND 1.0 J	µg/Kg
				SS-15620-080409-RR-004	ND 0.83 J	µg/Kg
				SS-15620-080409-RR-005	ND 0.82 J	µg/Kg
VOCs	08/10/09	Acetone	26	SS-15620-080409-RR-001	ND 4.9 J	µg/Kg
				SS-15620-080409-RR-002	9.7 J	µg/Kg
				SS-15620-080409-RR-003	ND 5.9 J	µg/Kg
				SS-15620-080409-RR-004	ND 4.9 J	µg/Kg
				SS-15620-080409-RR-005	ND 4.8 J	µg/Kg
VOCs	08/12/09	Bromomethane	53	SS-15620-080409-RR-006	ND 0.85 J	µg/Kg
				SS-15620-080509-RR-007	ND 0.76 J	µg/Kg
				SS-15620-080509-RR-008	ND 0.88 J	µg/Kg
				SS-15620-080509-RR-009	ND 0.70 J	µg/Kg

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	08/12/09	Chloromethane	53	SS-15620-080409-RR-006	ND 0.98 J	µg/Kg
				SS-15620-080509-RR-007	ND 0.88 J	µg/Kg
				SS-15620-080509-RR-008	ND 1.0 J	µg/Kg
				SS-15620-080509-RR-009	ND 0.81 J	µg/Kg
VOCs	08/12/09	Acetone	26	SS-15620-080409-RR-006	ND 5.7 J	µg/Kg
				SS-15620-080509-RR-007	5.9 J	µg/Kg
				SS-15620-080509-RR-008	ND 5.9 J	µg/Kg
				SS-15620-080509-RR-009	6.1 J	µg/Kg
VOCs	08/12/09	Methyl Tert Butyl Ether	34	SS-15620-080409-RR-006	ND 0.86 J	µg/Kg
				SS-15620-080509-RR-007	ND 0.77 J	µg/Kg
				SS-15620-080509-RR-008	ND 0.89 J	µg/Kg
				SS-15620-080509-RR-009	ND 0.71 J	µg/Kg
VOCs	08/13/09	Dichlorodifluoromethane	32	SS-15620-080509-RR-011	ND 0.81 J	µg/Kg
				SS-15620-080509-RR-012	ND 0.84 J	µg/Kg
VOCs	08/13/09	Bromomethane	38	SS-15620-080509-RR-011	ND 0.90 J	µg/Kg
				SS-15620-080509-RR-012	ND 0.94 J	µg/Kg
VOCs	08/13/09	2-Butanone	27	SS-15620-080509-RR-011	ND 1.1 J	µg/Kg
				SS-15620-080509-RR-012	ND 1.1 J	µg/Kg

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	08/13/09	Acetone	39	SS-15620-080509-RR-010	ND 2700 J	µg/Kg
VOCs	08/13/09	2-Butanone	30	SS-15620-080509-RR-010	ND 580 J	µg/Kg
VOCs	08/13/09	Dibromochloromethane	27	SS-15620-080509-RR-010	ND 350 J	µg/Kg
VOCs	08/13/09	Bromoform	27	SS-15620-080509-RR-010	ND 570 J	µg/Kg
VOCs	08/13/09	1,2,4-Trichlorobenzene	29	SS-15620-080509-RR-010	94000 J	µg/Kg
VOCs	08/13/09	1,2,3-Trichlorobenzene	46	SS-15620-080509-RR-010	59000 J	µg/Kg
SVOCs	08/20/09	Hexachlorocyclopentadiene	35	SS-15620-080409-RR-001	ND 7.1 J	µg/Kg
				SS-15620-080409-RR-002	ND 7.5 J	µg/Kg
				SS-15620-080409-RR-003	ND 7.2 J	µg/Kg
				SS-15620-080409-RR-004	ND 7.2 J	µg/Kg
				SS-15620-080409-RR-005	ND 7.3 J	µg/Kg
				SS-15620-080409-RR-006	ND 7.2 J	µg/Kg
				SS-15620-080509-RR-007	ND 7.1 J	µg/Kg
				SS-15620-080509-RR-008	ND 7.3 J	µg/Kg
				SS-15620-080509-RR-009	ND 7.1 J	µg/Kg
				SS-15620-080509-RR-010	ND 7.2 J	µg/Kg

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*			*Units*
				SS-15620-080509-RR-011	ND	7.5	J	µg/Kg
				SS-15620-080509-RR-012	ND	7.2	J	µg/Kg
SVOCs	08/20/09	2,4-Dinitrophenol	42	SS-15620-080409-RR-001	ND	60	J	µg/Kg
				SS-15620-080409-RR-002	ND	63	J	µg/Kg
				SS-15620-080409-RR-003	ND	61	J	µg/Kg
				SS-15620-080409-RR-004	ND	61	J	µg/Kg
				SS-15620-080409-RR-005	ND	62	J	µg/Kg
				SS-15620-080409-RR-006	ND	61	J	µg/Kg
				SS-15620-080509-RR-007		610	J	µg/Kg
				SS-15620-080509-RR-008	ND	61	J	µg/Kg
				SS-15620-080509-RR-009	ND	60	J	µg/Kg
				SS-15620-080509-RR-010		1700	J	µg/Kg
				SS-15620-080509-RR-011		280	J	µg/Kg
				SS-15620-080509-RR-012		1200	J	µg/Kg
SVOCs	08/20/09	4,6-Dinitro-2-methylphenol	39	SS-15620-080409-RR-001	ND	180	J	µg/Kg
				SS-15620-080409-RR-002	ND	190	J	µg/Kg
				SS-15620-080409-RR-003	ND	180	J	µg/Kg
				SS-15620-080409-RR-004	ND	180	J	µg/Kg
				SS-15620-080409-RR-005	ND	190	J	µg/Kg
				SS-15620-080409-RR-006	ND	180	J	µg/Kg
				SS-15620-080509-RR-007	ND	180	J	µg/Kg

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
				SS-15620-080509-RR-008	ND 180 J	µg/Kg
				SS-15620-080509-RR-009	ND 180 J	µg/Kg
				SS-15620-080509-RR-010	ND 180 J	µg/Kg
				SS-15620-080509-RR-011	ND 190 J	µg/Kg
				SS-15620-080509-RR-012	ND 180 J	µg/Kg

Notes:

% D Percent Difference.
J Estimated.
ND Non-detect at associated value.
SVOCs Semi-Volatile Organic Compounds.
VOCs Volatile Organic Compounds.

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
LAGOON AND SERVICE STATION SOIL SAMPLING
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
VOCs	8/12/2009	1,2,3-Trichlorobenzene	1.7J	SS-15620-080509-RR-009	ND 0.8	µg/Kg
VOCs	8/12/2009	1,2,4-Trichlorobenzene	1.1J	SS-15620-080509-RR-009	ND 0.84	µg/Kg
VOCs	8/13/2009	1,2,3-Trichlorobenzene	1.3J	SS-15620-080509-RR-011	ND 6	µg/Kg
				SS-15620-080509-RR-012	ND 1.8	µg/Kg
Metals	8/12/2009	Beryllium	0.03	SS-15620-080409-RR-001	ND 0.089	mg/Kg
			0.04	SS-15620-080409-RR-002	ND 0.074	mg/Kg
			0.03	SS-15620-080409-RR-003	ND 0.14	mg/Kg
			0.03	SS-15620-080409-RR-004	ND 0.062	mg/Kg
			0.03	SS-15620-080409-RR-005	ND 0.13	mg/Kg
			0.04	SS-15620-080409-RR-006	ND 0.12	mg/Kg
			0.04	SS-15620-080509-RR-007	ND 0.067	mg/Kg
			0.04	SS-15620-080509-RR-008	ND 0.032	mg/Kg
			0.04	SS-15620-080509-RR-009	ND 0.12	mg/Kg
			0.04	SS-15620-080509-RR-010	ND 0.065	mg/Kg
			0.05	SS-15620-080509-RR-011	ND 0.11	mg/Kg
			0.04	SS-15620-080509-RR-012	ND 0.072	mg/Kg
	8/12/2009	Selenium	0.33	SS-15620-080409-RR-001	ND 0.33	mg/Kg
			0.35	SS-15620-080409-RR-002	ND 0.39	mg/Kg
			0.34	SS-15620-080409-RR-004	ND 0.37	mg/Kg

Notes:

J Estimated.
ND Non-detect at associated value.
VOCs Volatile Organic Compounds.

CONESTOGA-ROVERS & ASSOCIATES

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MEMORANDUM

TO:	Jamie Puskas	REF. NO.:	15620-81
FROM:	Susan C. Scrocchi/bjw/2	DATE:	March 15, 2010
CC:	John Hoffmann		E-Mail and Hard Copy If Requested

RE: Data Quality Assessment and Validation
PCB Congener Characterization - Additional Supplemental Investigation
Zeneca Inc.
Dighton, Massachusetts

INTRODUCTION

The following details a quality assessment and validation of the analytical data resulting from the collection of sediment samples during August 2009 at the Zeneca Inc. Site in Dighton, Massachusetts. Samples were originally analyzed for polychlorinated biphenyls (PCBs) by gas chromatography. Per the work plan and QAPP, any samples yielding positive PCB results greater than 500ppb will be analyzed for PCB Homologues by EPA method 1668A. The sample summary detailing sample identification, sample location, and analytical parameters is presented in Table 1. The samples were shipped to Test America Laboratory in Knoxville, Tennessee. A summary of the analytical data is presented in Table 2.

The quality control (QC) criteria used to assess the data were established by the method. The document, "USEPA Region III Interim Guidelines for the Validation of Data Generated Using Method 1668 PCB Congener Data, April 2004", was used for guidance.

Full raw data deliverables were provided by the laboratories. A Tier II validation was performed on the data and the validation findings are presented in the following subsections.

SAMPLE PRESERVATION AND HOLDING TIMES

Sample holding time periods and preservation requirements are presented in the QAPP and analytical methods. All samples were properly preserved and cooled to 4°C (±2°C) after collection. All samples were prepared and analyzed within the method-required holding times.

GAS CHROMATOGRAPHY/MASS SPECTROMETER (GC/MS) PERFORMANCE CHECK

GC/MS instrument performance checks are performed to ensure mass resolution, identification, and calibration.

All GC/MS performance checks were performed and all criteria were met.

INITIAL CALIBRATION - PCB CONGENER ANALYSES

There shall be an initial calibration curve consisting of five or six points. The %RSD for the mean relative response factors from the native toxics must not exceed 20 percent.

All calibration data were acceptable indicating adequate instrument sensitivity and linearity.

CONTINUING CALIBRATION - PCB CONGENER ANALYSES

To ensure that the instrument remains capable of producing acceptable qualitative and quantitative data each day a calibration verification standard is analyzed.

Native and labeled PCB congeners in the calibration verification standard must meet the acceptance criteria for %D which are specified in Method 1668A.

Calibration verification standards were analyzed at the proper frequency and all acceptance criteria were met.

METHOD BLANK SAMPLES

Method blank samples are prepared and analyzed with the investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. Generally, the blank results were non-detect for the analytes of interest, with the exception of some PCB homologues present at low concentrations. All associated sample results were significantly greater than the blank concentrations and would not have been impacted.

RECOVERY OF SPIKED LABELED COMPOUNDS

Labeled PCB congeners are added to each sample and method blank prior to extraction to be an internal standard for the quantitation of the native compounds, and to serve as surrogates for the assessment of method performance in the sample matrix.

All labeled compound recoveries were within the laboratory control limits demonstrating acceptable analytical accuracy.

SYSTEM PERFORMANCE

As part of measuring system performance, the laboratory is required to prepare and analyze one ongoing precision and recovery (OPR) sample with every batch of samples. An OPR is a laboratory blank spiked with known quantities of analytes. The OPR is prepared and analyzed exactly like a sample.

All recoveries were acceptable indicating adequate analytical efficiency.

TARGET COMPOUND IDENTIFICATION

Qualitative criteria for target compound identification have been established to minimize the number of erroneous identifications. An erroneous identification can be either a false-positive (reporting a target compound when it is not present in the sample), or false-negative (not reporting a compound that is present in the sample). The following criteria, as specified in the Methods, must be met for a GC peak to be identified as a PCB homologue:

i) The signals for the two exact mass to charge ratios (m/z) for the congener must be present and maximized within ±2 seconds of one another.

ii) The signal-to-noise ratio (S/N) of each of the two exact m/z's for the congener must be ≥ 2.5.

iii) The ratio of the mass areas of the two exact m/z's for the congener must be within the method limit.

iv) For PCB congeners which have a corresponding labeled internal standard, the retention time of the PCB congener must be within -1 to +3 seconds of the retention time of its labeled internal standard. For PCB congeners which do not have a corresponding labeled internal standard, the relative retention time of the PCB congener must be within 5 percent of the relative retention time determined during the analysis of the 209 PCB congener standard.

Some sample results were reported as positive hits although one or more of the above criteria were not met. The associated results were qualified as estimated. A summary of these qualified data is presented in Table 3.

FIELD QA/QC

No field QA/QC samples were submitted for analysis.

SYSTEM PERFORMANCE

System performance between various quality control checks was evaluated to monitor for changes that may have caused the degradation of data quality. No technical problems or chromatographic anomalies were observed which would require qualification of the data.

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted.

TABLE 1

SAMPLE AND ANALYSIS SUMMARY
PCB CONGENER CHARACTERIZATION - ADDITIONAL SUPPLEMENTAL INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

Sample I.D.	*Location I.D.*	*Matrix*	*Date (mm/dd/yy)*	*Analysis/Parameters*
				PCB Homologues
SS-15620-080509-RR-012	SS-L1	Sediment	08/05/09	X
SS-15620-080509-RR-010	SS-L2	Sediment	08/05/09	X
SS-15620-080509-RR-011	SS-L3	Sediment	08/05/09	X
SS-15620-080509-RR-007	SS-L6	Sediment	08/05/09	X
SS-15620-080409-RR-004	SS-SS4	Sediment	08/04/09	X

Note:

PCB Polychlorinated Biphenyls.

TABLE 2

ANALYTICAL RESULTS SUMMARY
PCB CONGENER CHARACTERIZATION - ADDITIONAL SUPPLEMENTAL INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SS-L1*	*SS-L2*	*SS-L3*	*SS-L6*	*SS-SS4*
	Sample ID:	*SS-15620-080509-RR-012*	*SS-15620-080509-RR-010*	*SS-15620-080509-RR-011*	*SS-15620-080509-RR-007*	*SS-15620-080409-RR-004*
	Sample Date:	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/5/2009*	*8/4/2009*
	Sample Depth:	-	-	-	-	*0-1 ft BGS*
Parameter	*Units*					
Polychlorinated Biphenyls.						
(PCB 209) Decachlorobiphenyl	ng/g	0.61 J	0.37 J	0.85 J	0.80 J	1.2
Dichlorobiphenyls C12 H8 Cl2	ng/g	68 J	110 J	55 J	37 J	1.1 J
Heptachlorobiphenyls C12 H3 Cl7	ng/g	84 J	110	140 J	49 J	44
Hexachlorobiphenyls C12 H4 Cl6	ng/g	230 J	260 J	380 J	120 J	65 J
Monochlorobiphenyls C12 H9 Cl	ng/g	5.0	7.9	1.6 J	1.4 J	0.16 J
Nonachlorobiphenyls C12 HCl9	ng/g	1.6 J	1.9	2.4 J	1.2 J	2.1
Octachlorobiphenyl	ng/g	18 J	25	33 J	11 J	13 J
Pentachlorobiphenyl	ng/g	1300 J	1500 J	1900 J	610 J	150 J
Tetrachlorobiphenyl	ng/g	4400 J	4500 J	5000 J	1800 J	260 J
Trichlorobiphenyl	ng/g	2100 J	1900	1900	750 J	26 J
General Chemistry						
Percent moisture	%	13.2	13.5	16.8	9.3	12.5

Notes:

J - Estimated.

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO IDENTIFICATION CRITERIA EXCEEDANCES
PCB CONGENER CHARACTERIZATION - ADDITIONAL SUPPLEMENTAL INVESTIGATION
ZENECA INC
DIGHTON, MASSACHUSETTS
AUGUST 2009

Parameter	*Sample Location*	*Analyte*	*Qualified Sample Result*	*Units*
PCB Homologues	SS-15620-080409-RR-004	Dichlorobiphenyls C12 H8 Cl2	1.1 J	ng/g
		Hexachlorobiphenyls C12 H4 Cl6	65 J	ng/g
		Octachlorobiphenyl	13 J	ng/g
		Pentachlorobiphenyl	150 J	ng/g
		Tetrachlorobiphenyl	260 J	ng/g
		Trichlorobiphenyl	26 J	ng/g
PCB Homologues	SS-15620-080509-RR-007	Dichlorobiphenyls C12 H8 Cl2	37 J	ng/g
		Heptachlorobiphenyls C12 H3 Cl7	49 J	ng/g
		Hexachlorobiphenyls C12 H4 Cl6	120 J	ng/g
		Monochlorobiphenyls C12 H9 Cl	1.4 J	ng/g
		Nonachlorobiphenyls C12 HCl9	1.2 J	ng/g
		Octachlorobiphenyl	11 J	ng/g
		Pentachlorobiphenyl	610 J	ng/g
		Tetrachlorobiphenyl	1800 J	ng/g
		Trichlorobiphenyl	750 J	ng/g
PCB Homologues	SS-15620-080509-RR-010	Dichlorobiphenyls C12 H8 Cl2	110 J	ng/g
		Hexachlorobiphenyls C12 H4 Cl6	260 J	ng/g
		(PCB 209) Decachlorobiphenyl	0.37 J	ng/g
		Pentachlorobiphenyl	1500 J	ng/g
		Tetrachlorobiphenyl	4500 J	ng/g
PCB Homologues	SS-15620-080509-RR-011	Dichlorobiphenyls C12 H8 Cl2	55 J	ng/g
		Heptachlorobiphenyls C12 H3 Cl7	140 J	ng/g
		Hexachlorobiphenyls C12 H4 Cl6	380 J	ng/g

TABLE 3

QUALIFIED SAMPLE RESULTS DUE TO IDENTIFICATION CRITERIA EXCEEDANCES
PCB CONGENER CHARACTERIZATION - ADDITIONAL SUPPLEMENTAL INVESTIGATION
ZENECA INC
DIGHTON, MASSACHUSETTS
AUGUST 2009

Parameter	*Sample Location*	*Analyte*	*Qualified Sample Result*	*Units*
		Octachlorobiphenyl	33 J	ng/g
		Pentachlorobiphenyl	1900 J	ng/g
		Monochlorobiphenyls C12 H9 Cl	1.6 J	ng/g
		Nonachlorobiphenyls C12 HCl9	2.4 J	ng/g
		Tetrachlorobiphenyl	5000 J	ng/g
PCB Homologues	SS-15620-080509-RR-012	Dichlorobiphenyls C12 H8 Cl2	68 J	ng/g
		Heptachlorobiphenyls C12 H3 Cl7	84 J	ng/g
		Hexachlorobiphenyls C12 H4 Cl6	230 J	ng/g
		Octachlorobiphenyl	18 J	ng/g
		Pentachlorobiphenyl	1300 J	ng/g
		Tetrachlorobiphenyl	4400 J	ng/g
		Trichlorobiphenyl	2100 J	ng/g

Notes:

J Estimated.
PCB Polychlorinated Biphenyls.

CONESTOGA-ROVERS
& ASSOCIATES

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ANALYTICAL DATA ASSESSMENT AND VALIDATION
SURFACE WATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

PREPARED BY:
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1.0 INTRODUCTION

The following document details an assessment and validation of analytical data reported for surface water samples collected from Zeneca, Inc. (Site) located in Dighton, Massachusetts. The samples were collected in August 2009 in support of the Supplemental Resource Conservation and Recovery Act (RCRA) Facilities Investigation.

A sampling and analysis summary is presented in Table 1. The samples were submitted to Test America, Inc. (Test America) in Pittsburgh, Pennsylvania. A summary of the methods is presented in Table 2. A summary of the analytical data is presented in Table 3. The quality control (QC) criteria used to assess the data were established by the methods and the Quality Assurance Project Plan (QAPP). Application of quality assurance criteria was consistent with the guidance documents:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Review", United States Environmental Protection Agency (USEPA) 540/R-94/013, February 1994

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Review", USEPA 540/R-99/008, October 1999

These guidelines are collectively referred to as "Guidelines" in this memorandum.

Full raw data deliverables were provided by the laboratory. A Tier II validation was performed on the data and the validation findings are presented in the following subsections.

2.0 SAMPLE HOLDING TIMES

Sample holding time and preservation requirements are summarized in the analytical methods. All sample extractions and/or analyses were performed within the specified holding times.

All samples were properly preserved and cooled to 4°C (±2°C) after collection.

3.0 INSTRUMENT CALIBRATION

3.1 GAS CHROMATOGRAPH/MASS SPECTROMETER (GC/MS) CALIBRATION - VOLATILE ORGANIC COMPOUNDS (VOCs) AND SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)

3.1.1 TUNING AND MASS CALIBRATION

Prior to analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the VOC and SVOC methods require the analysis of the specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Instrument tuning data were reviewed. Tuning compounds were analyzed at the required frequency throughout the VOC and SVOC analysis periods. All tuning criteria were met for the analyses, indicating proper optimization of the instrumentation.

3.1.2 INITIAL CALIBRATION

To quantify compounds of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.05.

ii) For average response factors are employed, percent relative standard deviation (%RSD) values must not exceed 30 percent.

The initial calibration data for VOCs and SVOCs were reviewed and met the above criteria for linearity and sensitivity.

3.1.3 CONTINUING CALIBRATION

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.05.

ii) Percent difference (%D) values must not exceed 25 percent.

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity of response with the exception of %D values for acetone, which exceeded the 25 percent criterion throughout the analysis period. All associated sample results were qualified as estimated to reflect variability in instrument response (see Table 4).

3.2 GAS CHROMATOGRAPH (GC) CALIBRATION-POLYCHLORINATED BIPHENYLS (PCBs)

3.2.1 INITIAL CALIBRATION

To quantify compounds of interest, calibration of the GC over a specific concentration range must be performed. Initially, five-point calibration curves are analyzed for all the compounds of interest with the exception of some PCBs. For the PCB analysis, Aroclors 1016 and 1260 are analyzed using a five-point curve and one-point calibration standards are analyzed for the remaining Aroclors.

Linearity of the calibration curves are acceptable if %RSD values are less than or equal to 20 percent or if the correlation coefficient is greater than 0.995. Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

Initial calibration standards were analyzed at the required frequencies. All retention time and linearity criteria were satisfied.

3.2.2 CONTINUING CALIBRATION

To ensure that the calibration of the instrument is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound in all continuing standards and assessed against an acceptance criterion of 15 percent.

To ensure that compound retention times do not vary over the analysis period, all retention times must fall within the established retention time windows.

Continuing calibration standards were analyzed at the required frequency and all method criteria were met for analyte linearity.

3.3 INSTRUMENTAL CALIBRATION - METALS AND GENERAL CHEMISTRY

3.3.1 INITIAL CALIBRATION

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For inductively coupled plasma/mass spectrometer (ICP/MS) analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury analyses, a calibration blank and a minimum of four standards must be analyzed to establish the analytical curve. For general chemistry, calibration is performed based on the analysis of at least three standards and a blank. Resulting correlation coefficients for curves must be at least 0.995.

After calibration, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Instrument	*Inorganic Species*	*Control Limits (Percent)*
ICP	Metals	90 - 110
Cold Vapor Atomic Absorption (AA)	Mercury	80 - 120
Potentiometric/Spectrophotometric	Total Organic Carbon	85 - 115

Upon review of the data, it was determined that all inorganic calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that instrumentation used for these analyses were properly calibrated prior to sample analyses.

3.3.2 CONTINUING CALIBRATION

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

3.3.3 CONTRACT REQUIRED DETECTION LIMIT (CRDL) STANDARD ANALYSES

To verify the linearity of the ICP/MS calibration near the detection limit, a standard is analyzed which contains the ICP/MS analytes at specified concentrations. This standard must be analyzed at the beginning and end of each sample analysis run or a minimum of twice per 8-hour working shift.

Control limits of 50-150 percent were used to evaluate the data. The CRDL recoveries were acceptable with a few exceptions. All associated results were significantly greater than the CRDL and would not have been impacted by the implied variability at the detection limit.

4.0 SURROGATE SPIKE RECOVERIES - ORGANICS

In accordance with the methods employed, all samples, blanks, and standards analyzed for VOCs, SVOCs, and PCBs are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against method control limits. For the SVOC method, it is acceptable for one surrogate recovery per

fraction (base neutral or acid phenolic) to fall outside of these limits, provided it is greater than 10 percent.

All surrogate recoveries were within the laboratory control limits.

5.0 INTERNAL STANDARD (IS) RECOVERIES - VOCs AND SVOCs

To correct for changes in GC/MS response and sensitivity, IS compounds are added to investigative samples and quality control samples prior to VOC and SVOC analyses. All results are calculated as a ratio of the IS response. The criteria by which the IS results are assessed are as follows:

i) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard.

ii) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard.

All sample IS results met the above criteria and were used to calculate all positive sample results.

6.0 METHOD BLANK ANALYSES

Method blanks are prepared from deionized water and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures. Additionally, continuing calibration blanks (CCBs) are routinely analyzed after each CCV for the inorganic parameters.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch and CCBs were analyzed for inorganic parameters after each CCV. The data were non-detect with the exception of low concentrations of metals observed in the method blanks and/or CCBs. All associated sample results within five times the blank concentration (ten times for common laboratory contaminants) were qualified as non-detect (see Table 5).

7.0 LABORATORY CONTROL SAMPLE (LCS) ANALYSES

The LCS serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch. Some LCSs were prepared in duplicate to assess analytical precision.

LCSs were prepared and analyzed for all parameters and all recoveries were within the acceptable limits.

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

MS/MSD samples are prepared using a representative subset of analytes for each parameter and analyzed with each sample batch for all parameters. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD are used to assess analytical precision.

All MS/MSD results were within the acceptable limits presented in the Quality Assurance Project Plan (QAPP).

9.0 ICP SERIAL DILUTION

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of one per 20 investigative samples is analyzed at a five-fold dilution. For samples with sufficient analyte concentrations, the serial dilution results must agree within 20 percent of the original results.

A serial dilution was performed and the results were acceptable with the exception of high percent differences in some dissolved potassium results. The associated sample results were qualified as estimated (see Table 6)

10.0 ICP INTERFERENCE CHECK SAMPLE (ICS) ANALYSIS

To verify that proper inter-element and background correction factors have been established by the laboratory, ICSs are analyzed. These samples contain high

concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period.

ICS analysis results were evaluated for all samples. All ICS recoveries were within the established control limits of 80 to 120 percent.

11.0 FIELD QC

Trip Blanks

Trip blanks are transported, stored, and analyzed with the investigative samples to identify potential cross-contamination of VOCs.

A trip blank was collected and submitted with the investigative VOC sample, and all results were non-detect for the analytes of interest.

12.0 ANALYTE REPORTING

Non-detect data were reported down to the laboratory's method detection limits (MDLs) for each analyte. Positive analyte detections less than the practical quantitation limit (PQL) but greater than the MDL were qualified as estimated (J).

13.0 TOTAL VERSUS DISSOLVED METALS

Most dissolved metals results were less than the total results or had variability with the acceptance criterion of 20 percent difference with some exceptions. The associated total and dissolved results were qualified as estimated (see Table 7).

14.0 CONCLUSION

Based on the assessment detailed in the foregoing, the data summarized in Table 3 are acceptable with the specific qualifications noted herein.

TABLES

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
SURFACE WATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

				Analysis/Parameters						
Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*TCL VOCs+ 1,2,3-tcb*	*TCL SVOCs + anailine*	*PCBs*	*TAL Metals (total and dissolved)*	*Hardness*	*TOC*	*Comments*
SW-15620-080409-RR-001	SW-L2	08/04/09	11:40	X	X	X	X	X	X	
SW-15620-080409-RR-002	SW-L1	08/04/09	11:10	X	X	X	X	X	X	
SW-15620-080409-RR-003	SW-L3	08/04/09	12:45	X	X	X	X	X	X	
SW-15620-080409-RR-004	SW-L4	08/04/09	13:30	X	X	X	X	X	X	
Trip Blank	-	08/04/09	-	X						Trip Blank

Notes:

PCBs	Polychlorinated biphenyls
SVOCs	Semi-volatile Organic Compounds
TAL	Target Analyte List
TCL	Target Compound List
TOC	Total Organic Carbon
VOCs	Volatile Organic Compounds

TABLE 2

METHODS SUMMARY
SURFACE WATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

Parameter	*Methodology*
TCL VOCs	SW-846 8260[1]
TCL SVOCs	SW-846 8270[1]
TCL PCBs	SW-846 8082[1]
TAL Metals	SW-846 6010/7000[1]
Hardness	SM 2340
TOC	SW-846 9060[1]

Notes:

1	"Test Methods for Solid Waste Physical/Chemical Methods", SW-846, 3rd Edition, September 1986 (with all subsequent revisions).
2	"Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-220, March 1983.
PCBs	Polychlorinated Biphenyls.
SVOCs	Semi-Volatile Organic Compounds.
TAL	Target Analyte List
TCL	Target Compound List.
TOC	Total Organic Carbon
VOCs	Volatile Organic Compounds.

TABLE 3

ANALYTICAL RESULTS SUMMARY
SURFACE WATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SW-L1*	*SW-L2*	*SW-L3*	*SW-L4*
	Sample ID:	*SW-15620-080409-RR-002*	*SW-15620-080409-RR-001*	*SW-15620-080409-RR-003*	*SW-15620-080409-RR-004*
	Sample Date:	*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*
Parameters	*Units*				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	ND (0.29)	ND (0.29)	ND (0.29)	ND (0.29)
1,1,2,2-Tetrachloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1,2-Trichloroethane	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
1,1-Dichloroethane	µg/L	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
1,1-Dichloroethene	µg/L	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)
1,2,3-Trichlorobenzene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
1,2,4-Trichlorobenzene	µg/L	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.27)
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
1,2-Dichlorobenzene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
1,2-Dichloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
1,2-Dichloropropane	µg/L	ND (0.095)	ND (0.095)	ND (0.095)	ND (0.095)
1,3-Dichlorobenzene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
1,4-Dichlorobenzene	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
2-Butanone (Methyl Ethyl Ketone)	µg/L	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)
2-Hexanone	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Acetone	µg/L	ND (2.5) J	4.1	3.2	2.6 J
Benzene	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Bromodichloromethane	µg/L	0.23 J	ND (0.13)	0.43	ND (0.13)
Bromoform	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Bromomethane (Methyl Bromide)	µg/L	ND (0.31)	ND (0.31)	ND (0.31)	ND (0.31)
Carbon disulfide	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Carbon tetrachloride	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Chlorobenzene	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Chloroethane	µg/L	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Chloroform (Trichloromethane)	µg/L	1.1	ND (0.17)	1.6	0.54 J
Chloromethane (Methyl Chloride)	µg/L	ND (0.28)	ND (0.28)	ND (0.28)	ND (0.28)
cis-1,2-Dichloroethene	µg/L	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.24)
cis-1,3-Dichloropropene	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)
Cyclohexane	µg/L	ND (0.25)	ND (0.25)	ND (0.25)	ND (0.25)
Dibromochloromethane	µg/L	ND (0.14)	ND (0.14)	0.24	ND (0.14)
Dichlorodifluoromethane (CFC-12)	µg/L	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.19)

TABLE 3

ANALYTICAL RESULTS SUMMARY
SURFACE WATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SW-L1*	*SW-L2*	*SW-L3*	*SW-L4*
	Sample ID:	*SW-15620-080409-RR-002*	*SW-15620-080409-RR-001*	*SW-15620-080409-RR-003*	*SW-15620-080409-RR-004*
	Sample Date:	*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*
Parameters	***Units***				
Ethylbenzene	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Isopropylbenzene	µg/L	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
Methyl acetate	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Methyl cyclohexane	µg/L	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.26)
Methyl Tert Butyl Ether	µg/L	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)
Methylene chloride	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Styrene	µg/L	ND (0.097)	ND (0.097)	ND (0.097)	ND (0.097)
Tetrachloroethene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Toluene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
trans-1,2-Dichloroethene	µg/L	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.17)
trans-1,3-Dichloropropene	µg/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
Trichloroethene	µg/L	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Trichlorofluoromethane (CFC-11)	µg/L	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Trifluorotrichloroethane (Freon 113)	µg/L	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)
Vinyl chloride	µg/L	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
Xylene (total)	µg/L	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)
Semi-Volatile Organic Compounds					
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	µg/L	ND (0.035)	ND (0.037)	ND (0.033)	ND (0.034)
2,4,5-Trichlorophenol	µg/L	ND (0.015)	ND (0.016)	ND (0.015)	ND (0.015)
2,4,6-Trichlorophenol	µg/L	ND (0.0092)	ND (0.0098)	ND (0.0087)	ND (0.0090)
2,4-Dichlorophenol	µg/L	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.013)
2,4-Dimethylphenol	µg/L	ND (0.0081)	ND (0.0086)	ND (0.0077)	ND (0.0079)
2,4-Dinitrophenol	µg/L	ND (0.62)	ND (0.66)	ND (0.59)	ND (0.61)
2,4-Dinitrotoluene	µg/L	ND (0.017)	ND (0.018)	ND (0.016)	ND (0.016)
2,6-Dinitrotoluene	µg/L	ND (0.019)	ND (0.021)	ND (0.018)	ND (0.019)
2-Chloronaphthalene	µg/L	ND (0.015)	ND (0.016)	ND (0.014)	ND (0.015)
2-Chlorophenol	µg/L	ND (0.021)	ND (0.023)	ND (0.020)	ND (0.021)
2-Methylnaphthalene	µg/L	ND (0.016)	ND (0.017)	ND (0.015)	ND (0.016)
2-Methylphenol	µg/L	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.014)
2-Nitroaniline	µg/L	ND (0.017)	ND (0.018)	ND (0.016)	ND (0.016)
2-Nitrophenol	µg/L	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.014)
3,3'-Dichlorobenzidine	µg/L	ND (0.036)	ND (0.039)	ND (0.035)	ND (0.036)
3-Nitroaniline	µg/L	ND (0.026)	ND (0.028)	ND (0.025)	ND (0.026)

TABLE 3

ANALYTICAL RESULTS SUMMARY
SURFACE WATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SW-L1*	*SW-L2*	*SW-L3*	*SW-L4*
	Sample ID:	*SW-15620-080409-RR-002*	*SW-15620-080409-RR-001*	*SW-15620-080409-RR-003*	*SW-15620-080409-RR-004*
	Sample Date:	*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*
Parameters	*Units*				
4,6-Dinitro-2-methylphenol	µg/L	ND (0.79)	ND (0.84)	ND (0.75)	ND (0.77)
4-Bromophenyl phenyl ether	µg/L	ND (0.019)	ND (0.020)	ND (0.018)	ND (0.019)
4-Chloro-3-methylphenol	µg/L	ND (0.026)	ND (0.027)	ND (0.024)	ND (0.025)
4-Chloroaniline	µg/L	ND (0.11)	ND (0.12)	ND (0.10)	ND (0.11)
4-Chlorophenyl phenyl ether	µg/L	ND (0.011)	ND (0.011)	ND (0.010)	ND (0.010)
4-Methylphenol	µg/L	ND (0.018)	ND (0.019)	ND (0.017)	ND (0.018)
4-Nitroaniline	µg/L	ND (0.023)	ND (0.025)	ND (0.022)	ND (0.023)
4-Nitrophenol	µg/L	ND (0.71)	ND (0.76)	ND (0.68)	ND (0.70)
Acenaphthene	µg/L	ND (0.015)	ND (0.016)	ND (0.014)	ND (0.014)
Acenaphthylene	µg/L	ND (0.0086)	ND (0.0092)	ND (0.0082)	ND (0.0084)
Acetophenone	µg/L	ND (0.022)	ND (0.024)	ND (0.021)	ND (0.022)
Aniline	µg/L	ND (0.041)	ND (0.044)	ND (0.039)	ND (0.040)
Anthracene	µg/L	ND (0.0087)	ND (0.0093)	ND (0.0083)	ND (0.0085)
Atrazine	µg/L	ND (0.020)	ND (0.022)	ND (0.019)	ND (0.020)
Benzaldehyde	µg/L	0.95 J	1.0 J	1.0	0.96 J
Benzo(a)anthracene	µg/L	ND (0.018)	ND (0.019)	ND (0.017)	ND (0.017)
Benzo(a)pyrene	µg/L	ND (0.012)	ND (0.013)	ND (0.011)	ND (0.012)
Benzo(b)fluoranthene	µg/L	ND (0.016)	ND (0.018)	ND (0.016)	ND (0.016)
Benzo(g,h,i)perylene	µg/L	ND (0.0087)	ND (0.0094)	ND (0.0083)	ND (0.0086)
Benzo(k)fluoranthene	µg/L	ND (0.017)	ND (0.018)	ND (0.016)	ND (0.016)
Biphenyl (1,1-Biphenyl)	µg/L	ND (0.016)	ND (0.017)	ND (0.015)	ND (0.015)
bis(2-Chloroethoxy)methane	µg/L	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.014)
bis(2-Chloroethyl)ether	µg/L	ND (0.027)	ND (0.029)	ND (0.025)	ND (0.026)
bis(2-Ethylhexyl)phthalate	µg/L	3.2	2.0	2.6	2.8
Butyl benzylphthalate	µg/L	ND (0.31)	0.51 J	0.54 J	ND (0.30)
Caprolactam	µg/L	3.0 J	3.6 J	5.3	3.2 J
Carbazole	µg/L	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.014)
Chrysene	µg/L	ND (0.011)	ND (0.012)	ND (0.010)	ND (0.011)
Dibenz(a,h)anthracene	µg/L	ND (0.013)	ND (0.014)	ND (0.012)	ND (0.013)
Dibenzofuran	µg/L	0.026 J	ND (0.020)	0.032 J	ND (0.018)
Diethyl phthalate	µg/L	0.10 J	0.16 J	0.27 J	0.15 J
Dimethyl phthalate	µg/L	ND (0.014)	ND (0.015)	ND (0.013)	ND (0.014)
Di-n-butylphthalate	µg/L	0.076 J	0.087 J	0.13 J	0.19 J
Di-n-octyl phthalate	µg/L	ND (0.016)	ND (0.017)	ND (0.015)	ND (0.015)

TABLE 3

ANALYTICAL RESULTS SUMMARY
SURFACE WATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SW-L1*	*SW-L2*	*SW-L3*	*SW-L4*
	Sample ID:	*SW-15620-080409-RR-002*	*SW-15620-080409-RR-001*	*SW-15620-080409-RR-003*	*SW-15620-080409-RR-004*
	Sample Date:	*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*
Parameters	***Units***				
Fluoranthene	µg/L	ND (0.010)	ND (0.011)	ND (0.0096)	ND (0.0099)
Fluorene	µg/L	ND (0.010)	ND (0.011)	ND (0.0095)	ND (0.0098)
Hexachlorobenzene	µg/L	ND (0.018)	ND (0.020)	ND (0.017)	ND (0.018)
Hexachlorobutadiene	µg/L	ND (0.012)	ND (0.013)	ND (0.012)	ND (0.012)
Hexachlorocyclopentadiene	µg/L	ND (0.012)	ND (0.012)	ND (0.011)	ND (0.011)
Hexachloroethane	µg/L	ND (0.0078)	ND (0.0083)	ND (0.0074)	ND (0.0076)
Indeno(1,2,3-cd)pyrene	µg/L	ND (0.016)	ND (0.017)	ND (0.015)	ND (0.016)
Isophorone	µg/L	ND (0.029)	ND (0.031)	ND (0.028)	ND (0.029)
Naphthalene	µg/L	ND (0.028)	ND (0.030)	ND (0.027)	ND (0.028)
Nitrobenzene	µg/L	ND (0.018)	ND (0.019)	ND (0.017)	ND (0.018)
N-Nitrosodi-n-propylamine	µg/L	ND (0.039)	ND (0.042)	ND (0.037)	ND (0.038)
N-Nitrosodiphenylamine	µg/L	ND (0.049)	ND (0.053)	ND (0.047)	ND (0.048)
Pentachlorophenol	µg/L	ND (0.19)	ND (0.20)	ND (0.18)	ND (0.19)
Phenanthrene	µg/L	0.11 J	0.10 J	0.15 J	0.078 J
Phenol	µg/L	ND (0.024)	ND (0.026)	ND (0.023)	ND (0.023)
Pyrene	µg/L	ND (0.011)	ND (0.012)	ND (0.011)	ND (0.011)
Metals					
Aluminum	µg/L	17.0 J	9.4 J	15.1 J	125
Aluminum (Dissolved)	µg/L	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.6)
Antimony	µg/L	ND (1.0)	ND (0.26)	ND (0.36)	ND (0.26)
Antimony (Dissolved)	µg/L	ND (0.38)	ND (0.22)	ND (0.26)	ND (0.18)
Arsenic	µg/L	2.3	1.3	2.1	2.4
Arsenic (Dissolved)	µg/L	0.97 J	0.64 J	0.79 J	0.73 J
Barium	µg/L	11.8	7.4 J	6.7 J	37.6
Barium (Dissolved)	µg/L	7.6 J	4.7 J	4.0 J	4.8 J
Beryllium	µg/L	ND (0.037)	ND (0.037)	ND (0.037)	0.037 J
Beryllium (Dissolved)	µg/L	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.037)
Cadmium	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Cadmium (Dissolved)	µg/L	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Calcium	µg/L	16400	15100	13000	15800
Calcium (Dissolved)	µg/L	17000	15200	13500	13900
Chromium	µg/L	3.6	3.6	3.1	3.2
Chromium Total (Dissolved)	µg/L	4.5	4.3	5.0	4.9

TABLE 3

ANALYTICAL RESULTS SUMMARY
SURFACE WATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SW-L1*	*SW-L2*	*SW-L3*	*SW-L4*
	Sample ID:	*SW-15620-080409-RR-002*	*SW-15620-080409-RR-001*	*SW-15620-080409-RR-003*	*SW-15620-080409-RR-004*
	Sample Date:	*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*
Parameters	***Units***				
Cobalt	µg/L	1.4	0.85	0.97	4.0
Cobalt (Dissolved)	µg/L	0.52	0.44 J	0.60	0.30 J
Copper	µg/L	1.1 J	1.1 J	1.0 J	2.4
Copper (Dissolved)	µg/L	0.72 J	1.1 J	0.96 J	0.48 J
Iron	µg/L	2500	2940	3170	6810
Iron (Dissolved)	µg/L	174	426	283	160
Lead	µg/L	2.6	0.26 J	0.17 J	3.5
Lead (Dissolved)	µg/L	ND (0.019)	ND (0.019)	ND (0.019)	ND (0.019)
Magnesium	µg/L	1250	1190	1080	1280
Magnesium (Dissolved)	µg/L	1320	1240	1170	1200
Manganese	µg/L	341	353	218	1510
Manganese (Dissolved)	µg/L	87.6	193	116	94.2
Mercury	µg/L	ND (0.049)	ND (0.057)	ND (0.041)	ND (0.064)
Mercury (Dissolved)	µg/L	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)
Nickel	µg/L	0.58 J	0.61 J	0.66 J	1.0
Nickel (Dissolved)	µg/L	0.67 J	0.55 J	0.64 J	0.52 J
Potassium	µg/L	2260	2130	1580	1760
Potassium (Dissolved)	µg/L	2170 J	1960 J	1560 J	1200 J
Selenium	µg/L	0.72 J	0.64 J	ND (0.42)	0.60 J
Selenium (Dissolved)	µg/L	0.76 J	0.53 J	0.57 J	0.46 J
Silver	µg/L	ND (0.036)	ND (0.036)	ND (0.036)	0.098 J
Silver (Dissolved)	µg/L	ND (0.036)	ND (0.036)	ND (0.036)	ND (0.036)
Sodium	µg/L	10600	10200	8900	9920
Sodium (Dissolved)	µg/L	11600	11300	10300	10600
Thallium	µg/L	0.073 J	0.092 J	0.041 J	0.029 J
Thallium (Dissolved)	µg/L	0.12 J	0.10 J	0.055 J	0.040 J
Vanadium	µg/L	1.1	2.4	1.8	2.6
Vanadium (Dissolved)	µg/L	0.21 J	ND (0.082)	ND (0.082)	0.98 J
Zinc	µg/L	5.9J	3.4 J	5.1	19.6
Zinc (Dissolved)	µg/L	23.6 J	2.3 J	3.1 J	2.4 J

TABLE 3

ANALYTICAL RESULTS SUMMARY
SURFACE WATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

	Sample Location:	*SW-L1*	*SW-L2*	*SW-L3*	*SW-L4*
	Sample ID:	*SW-15620-080409-RR-002*	*SW-15620-080409-RR-001*	*SW-15620-080409-RR-003*	*SW-15620-080409-RR-004*
	Sample Date:	*8/4/2009*	*8/4/2009*	*8/4/2009*	*8/4/2009*
Parameters	*Units*				
Polychlorinated Biphenyls					
Aroclor-1016 (PCB-1016)	µg/L	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1221 (PCB-1221)	µg/L	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0024)
Aroclor-1232 (PCB-1232)	µg/L	ND (0.0028)	ND (0.0028)	ND (0.0028)	ND (0.0028)
Aroclor-1242 (PCB-1242)	µg/L	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.0018)
Aroclor-1248 (PCB-1248)	µg/L	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1254 (PCB-1254)	µg/L	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)
Aroclor-1260 (PCB-1260)	µg/L	ND (0.0013)	ND (0.0013)	ND (0.0013)	ND (0.0013)
General Chemistry					
Hardness	mg/L	54.0	52.0	44.0	50.0
Total Organic Carbon (TOC)	mg/L	10.6	9.8	10.8	9.3

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
SURFACE WATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	08/12/09	Acetone	28	SW-15620-080409-RR-002	ND 2.5	µg/L
				SW-15620-080409-RR-004	2.6 J	µg/L

Notes:

J Estimated
ND Non-detect at associated value.
VOCs Volatile Organic Compounds

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
SURFACE WATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	08/20/09	Antimony	0.13	SW-15620-080409-RR-001	ND 0.26	µg/L
				SW-15620-080409-RR-003	ND 0.36	µg/L
				SW-15620-080409-RR-004	ND 0.26	µg/L
	08/20/09	Antimony (Dissolved)	0.13	SW-15620-080409-RR-001	ND 0.22	µg/L
				SW-15620-080409-RR-002	ND 0.38	µg/L
				SW-15620-080409-RR-003	ND 0.26	µg/L
				SW-15620-080409-RR-004	ND 0.18	µg/L
	08/20/09	Antimony	0.31	SW-15620-080409-RR-002	ND 1.0	µg/L
	08/17/09	Mercury	0.049	SW-15620-080409-RR-001	ND 0.057	µg/L
				SW-15620-080409-RR-002	ND 0.049	µg/L
				SW-15620-080409-RR-003	ND 0.041	µg/L
				SW-15620-080409-RR-004	ND 0.064	µg/L

Notes:

ND Non-detect at associated value.

TABLE 6

QUALIFIED SAMPLES RESULTS DUE TO OUTLYING SERIAL DILUTIONS
SURFACE WATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

Sample ID	*Analyte*	*%D*	*Control Limits*	*Associated Samples*	*Qualified Sample Results*	*Units*
SW-15620-080409-RR-001	Potassium (Dissolved)	12.4	10	SW-15620-080409-RR-001	1960 J	µg/L
				SW-15620-080409-RR-002	2170 J	µg/L
				SW-15620-080409-RR-003	1560 J	µg/L
				SW-15620-080409-RR-004	1200 J	µg/L

Notes:

% D Percent Difference.
J Estimated.

TABLE 7

QUALIFIED ANALYTICAL DATA DUE TO A DISCREPANCY IN THE TOTAL VS. DISSOLVED RESULTS
SURFACE WATER INVESTIGATION
ZENECA, INC.
DIGHTON, MASSACHUSETTS
AUGUST 2009

Analyte	*Sample ID*	*Qualified Total Result*	*Qualified Dissolved Result*	*Units*
Zinc	SW-15620-080409-RR-002	5.9 J	23.6 J	µg/L

Notes:

J Estimated.