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Addendum
Rounds 1, 2, 3, & 4
Groundwater Data
RCRA Facility Investigation
for
Sites 2, 3, 4, 7, 8, 9

Naval Surface Warfare Center
White Oak
Silver Spring, Maryland

Engineering Field Activity Chesapeake
Naval Facilities Engineering Command
Contract Number N62472-90-D-1298
Contract Task Order 0298

April 2000

TETRA TECH NUS, INC.

Section: 12.05
Site 20903-5640 (White Oak)
Doc. #: 0005

ADDENDUM
ROUNDS 1,2, 3 & 4 GROUNDWATER DATA
RCRA FACILITY INVESTIGATION
FOR
SITES 2, 3, 4, 7, 8, 9

NAVAL SURFACE WARFARE CENTER
WHITE OAK
SILVER SPRING, MARYLAND

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Engineering Field Activity Chesapeake
Environmental Branch Code 18
Naval Facilities Engineering Command
Washington Navy Yard, Building 212
Washington, D.C. 20374-2121

Submitted by:
Tetra Tech NUS, Inc.
600 Clark Avenue, Suite 3
King of Prussia, Pennsylvania 19406-1433

CONTRACT NUMBER N62472-90-D-1298
CONTRACT TASK ORDER 0298

APRIL 2000

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ADDENDUM
ROUNDS 1,2, 3 & 4 GROUNDWATER DATA
RCRA FACILITY INVESTIGATION
FOR
SITES 2, 3, 4, 7, 8, 9, AND PAINT BRANCH

NAVAL SURFACE WARFARE CENTER
WHITE OAK
SILVER SPRING, MARYLAND

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Submitted to:
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COMPARISON OF ROUNDS 1,2,3 AND 4 GROUNDWATER RESULTS NSWC WHITE OAK SILVER SPRING, MARYLAND SITE 2 – APPLE ORCHARD LANDFILL

This addendum presents the comparison of analytical results of four rounds of groundwater samples collected in January/February, April, July/August, and October, 1999. Section D-1 presents a within-well comparison of analytical results for the four sampling rounds. The constituent concentrations are also compared to risk-based screening levels based on USEPA Region III RBCs for tap water and USEPA primary and secondary MCLs. Table 1 presents the maximum concentrations of detected compounds for the four sampling rounds and compares them to the risk-based screening levels. Figure 1 presents the groundwater sample locations and concentrations of constituents of concern for the four rounds at Site 2.

Volatile Organic Chemicals (VOCs)

Nine VOCs were initially detected in Round 1 samples at Site 2, two additional VOCs (1,1,1-trichloroethane and 1,1-dichloroethane) were detected in Round 2 and Round 3, and one additional VOC (carbon disulfide) was detected in Round 4. All additional compounds were detected at concentrations well below their respective screening levels. Acetone, benzene, and methylene chloride were detected in Round 1 but were not detected in any subsequent rounds.

VOC concentrations within and between wells remained relatively constant over the four sampling rounds. The highest concentrations of TCE occurred in monitoring Well 02GW32 in all four rounds. Cis-1,2-dichloroethene had the most noticeable change in concentration over the year. It was detected in Round 1 at a maximum concentration exceeding screening levels in the deep monitoring Well 02GW102 but concentrations reported for this well in Rounds 2, 3, and 4 were below the screening level.

In summary, the number of VOC constituents and concentrations showed little change over the four sampling rounds. No new potential constituents of concern (PCOCs) were added in Rounds 2, 3 and 4 and one VOC (benzene) initially selected as a PCOC in Round 1 was not detected in later rounds. In addition, cis-1,2-dichloroethene exceeded its screening level in Round 1 but not in any subsequent rounds.

Semivolatile Organic Chemicals (SVOCs)

Two SVOCs [bis(2-ethylhexyl)phthalate (BEHP) and di-n-butylphthalate] were detected in Round 1 at Site 2 with concentrations below screening levels. Di-n-butylphthalate was not detected in subsequent rounds, but BEHP was detected in Round 3 in a duplicate sample at a concentration which exceeded its screening level. However, BEHP was not detected in the other member of the duplicate pair (qualified "B"). In addition, BEHP results in all other samples were qualified "B" because of blank contamination. Consequently, the BEHP result is suspect and is likely the result of blank contamination. Several additional SVOCs were detected in Round 3 and Round 4. 4-Bromophenyl phenyl ether and diethyl phthalate were detected in Round 3 and 1,2-dichlorobenzene and 1,3-dichlorobenzene were detected in Round 3. However, all additional compounds were detected at concentrations well below their respective screening levels.

In summary, several compounds were added to the list of SVOCs at Site 2 in Rounds 2, 3, and 4, but concentrations were below screening levels and no SVOCs were added to the list of PCOCs.

Pesticides/PCBs

No pesticides were detected in groundwater in any round at Site 2.

Explosives

Three explosives, 2,6-dinitrotoluene, HMX, and RDX were detected in Round 1 at Site 2. 2,6-Dinitrotoluene was not detected in subsequent rounds and the concentrations of RDX and HMX changed very little in Rounds 2, 3, and 4. Furthermore, 2,6-dinitrotoluene and HMX did not exceed screening levels in any rounds. However, RDX exceeded its screening level in all rounds Therefore, explosives showed little variability over the four sampling rounds and no new explosives were added to the list of PCOCs at Site 2.

Perchlorate

Perchlorate was detected in 1 sample (02GW101) in Round 1 at a concentration slightly above the detection limit and below the health-based action level. Analysis for perchlorate was not performed in Round 2 and perchlorate was not detected in any samples in Rounds 3 and 4. Therefore, perchlorate levels showed little change over the Rounds 1, 3 and 4 at Site 2.

Inorganics

Twenty-one metals were detected in groundwater at Site 2 in all four rounds. The concentrations of nine of these metals were statistically determined to be within naturally occurring levels by the Wilcoxon Rank Sum Test. The metals found to be within background levels at Site 2 are: aluminum, arsenic, beryllium, copper, iron, lead, nickel, vanadium, and zinc. Cyanide and silver were not detected in Round 1 but were detected in later rounds at concentrations below their risk-based screening levels. Beryllium was detected in Rounds 1 and 2 below the screening level but was not detected in Rounds 3 and 4. The concentrations of arsenic, lead, and vanadium did not change greatly in Rounds 1, 2 and 3 but decreased below screening level values in Round 4.

In summary, no new exceedances for metals occurred in Rounds 2, 3, and 4 at Site 2. The concentrations of several metals selected as PCOCs in Round 1 were below screening levels in Round 4.

Deep Monitoring Wells

Two deep monitoring wells were installed at Site 2 for the 1999 field investigation (Wells 02GW102 and 02GW104_. The analytical results for these wells (Appendix A-1) indicate that several VOCs (cis-1,2-dichloroethene and TCE) were detected in all four rounds at concentrations within the range of those found in the shallow wells. The concentration of TCE in Well 02GW102 exceeded its screening level in every sampling round. Two SVOCs (bis(2-ethylhexyl)phthalate (BEHP) and di-n-butylphthalate) were detected in the deep wells. The deep wells contained the highest concentrations of phthalates detected at Site 2. However, the presence of BEHP is considered to be the result of laboratory contamination. One explosive, 2,6-dinitrotoluene, was detected in the deep wells in Round 1 but was not detected in Rounds 2, 3, and 4. In general, fewer organic compounds were detected in the deep wells at Site 2. The concentrations of the detected compounds were within the range of those in the shallow wells. Perchlorate was not detected in any deep well samples in any sampling round at Site 2.

SITE 3 – PISTOL RANGE LANDFILL

This addendum presents the comparison of analytical results of four rounds of groundwater samples collected in January/February, April, July/August, and October, 1999. Section D-2 presents a within-well comparison of analytical results for the four sampling rounds. The constituent concentrations are also compared to risk-based screening levels based on USEPA Region III RBCs for tap water and USEPA primary and secondary MCLs. Table 2 presents the maximum concentrations of detected compounds for the four sampling rounds and compares them to the risk-based screening levels. Figure 2 presents the groundwater sample locations and concentrations of constituents of concern for the four rounds at Site 3.

Volatile Organic Chemicals (VOCs)

Eight VOCs were initially detected in Round 1 samples at Site 3, two additional VOCs (bromomethane and 1,1-dichloroethane) were detected in Round 2 at concentrations below their respective screening levels, and one additional VOC (chloroform) was detected in 1 of 10 samples in Round 4 at a concentration slightly above its screening level.

VOC concentrations within and between wells generally remained constant over the four sampling rounds at Site 3. However, the concentrations of cis-1,2-dichloroethene, TCE, and vinyl chloride increased noticeably in Round 4. These increased concentrations all occurred in the deep monitoring well, 03GW102. Vinyl chloride had been detected in this well in Rounds 1, 2, and 3 but concentrations were below the screening level in the three rounds. However, the concentration of vinyl chloride in Round 4 exceeded its screening level.

In summary, the concentrations of most VOCs showed little change over the four sampling rounds at Site 3. No new potential constituents of concern (PCOCs) were added in Rounds 2 and 3 but two VOCs, chloroform and vinyl chloride, exceeded screening levels in Round 4. Chloroform was only detected in a deep well sample at a concentration below the quantitation limit and had not been detected in previous rounds.

Semivolatile Organic Chemicals (SVOCs)

Three SVOCs (di-n-butylphthalate, 1,3-dichlorobenzene, and 1,4-dichlorobenzene) were detected in Round 1 at Site 3. The maximum concentration of di-n-butylphthalate was below its screening level and it was not detected in any subsequent rounds. 1,3-Dichlorobenzene was detected above its screening level in Round 1 and there was little change in its concentrations in subsequent rounds. The maximum concentrations of 1,4-dichlorobenzene were above its screening level in Rounds 1 and 2, but it was not detected in Round 3 and its concentration was below the screening level in Round 4. Two additional SVOCs, 1,2,4-trichlorobenzene and 1,2-dichlorobenzene, were detected in Rounds 2 and 3, respectively, at concentrations below their screening levels. The chlorobenzene compounds were primarily detected in monitoring Well 03GW19.

In summary, two additional compounds were detected in subsequent rounds at Site 3, but concentrations were below screening levels. Therefore, no new SVOCs were added to the list of PCOCs.

Pesticides/PCBs

No pesticides were detected in groundwater in any round at Site 3.

Explosives

Three explosives, 2,4-dinitrotoluene, HMX, and RDX were detected in Round 1 at Site 3. The concentration of 2,4-dinitrotoluene was below its screening level and it was not detected in subsequent rounds. The concentrations of RDX and HMX changed very little in Rounds 2, 3, and 4. The concentrations of HMX were below the screening levels in all rounds and RDX exceeded its screening level in all rounds. One additional explosive, 2,4,6-trinitrotoluene, was detected in Round 3 at concentrations below the screening level. Therefore, explosives showed little variability over the four sampling rounds and no new explosives were added to the list of PCOCs at Site 3.

Inorganics

Twenty-three metals were detected in groundwater at Site 3 in all four rounds. The concentrations of eight of these metals were statistically determined be within naturally occurring levels by the Wilcoxon Rank Sum Test. The metals found to be within naturally occurring levels at Site 3 are: aluminum, beryllium, chromium, copper, lead, nickel, vanadium, and zinc. Antimony, cyanide, selenium, silver, and thallium were not detected in Round 1 but were detected in subsequent rounds. Maximum concentrations of cyanide, selenium, silver were below their risk-based screening levels but the concentrations of antimony and thallium exceeded their screening levels in Round 3. However, these two metals were not detected in Round 4. In addition, all other analytical results for thallium in Round 3 were qualified "B" due to blank contamination. The concentrations of most metals did not change greatly in Rounds 1, 2 and 3 at Site 3 but maximum concentrations of a number of metals decreased noticeably in Round 4.

In summary, no new exceedances for metals occurred in Rounds 2, 3,and 4 at Site 3. Concentrations of some metals in Round 4 decreased when compared to the previous rounds. Therefore, the list of PCOCs did not change from Round 1.

Deep Monitoring Wells

Two deep monitoring wells were installed at Site 3 for the 1999 field investigation (Wells 03GW102 and 03GW104). The analytical results for these wells (Appendix A-2) indicate that several VOCs (cis-1,2-dichloroethene, trans-1,2-dichloroethene, TCE, and vinyl chloride) were detected in all four rounds at concentrations within the range of those found in the shallow wells. The maximum concentrations of cis-1,2-dichloroethene, TCE, and vinyl chloride in Well 03GW102 exceeded screening levels and represent the highest concentrations of these VOCs reported at Site 3. No SVOCs, pesticides, or explosives were detected in the deep well samples.

SITE 4 – CHEMICAL BURIAL AREA

This addendum presents the comparison of analytical results of four rounds of groundwater samples collected in January/February, April, July/August, and October, 1999. Section D-3 presents a within-well comparison of analytical results for the four sampling rounds. The constituent concentrations are also compared to risk-based screening levels based on USEPA Region III RBCs for tap water and USEPA primary and secondary MCLs. Table 3 presents the maximum concentrations of detected compounds for the four sampling rounds and compares them to the risk-based screening levels. Figure 3 presents the groundwater sample locations and concentrations of constituents of concern for the four rounds at Site 4.

Volatile Organic Chemicals (VOCs)

Sixteen VOCs were detected in Round 1 samples at Site 4. Seven additional VOCs were detected in Rounds 2,3 and 4. The concentrations of these additional VOCs were well below screening levels with the exception of carbon tetrachloride which was detected in only one sample at a concentration equivalent to its screening level. Therefore, no new VOCs were added to the list of COPCs at Site 4.

VOC concentrations within and between wells remained relatively constant over the four sampling rounds. The highest concentrations of VOCs occurred in monitoring Well 04GW102 which was sampled in Rounds 1 and 2 only. Other wells containing elevated concentrations of VOCs were Well 04GW50 and the deep Well 04GW106.

In summary, the number of VOC constituents and concentrations showed little change over the four sampling rounds at Site 4 and no new potential constituents of concern (PCOCs) were added in Rounds 2, 3 and 4.

Semivolatile Organic Chemicals (SVOCs)

Five SVOCs were detected in Round 1 at Site 4 but none was selected as a PCOC for the site. Three additional SVOCs (fluorene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene) were detected in Rounds 2, 3, and 4. Of these, only 1,4-dichlorobenzene was detected at a concentration exceeding its risk-based screening level in Rounds 2, 3 and 4.

In summary, concentrations of most SVOCs at Site 4 did not change significantly over the four rounds. One new compound not detected in Round 1, 1,4-dichlorobenzene, exceeded its screening level in all subsequent rounds.

Pesticides/PCBs

No pesticides were detected in groundwater in any round at Site 4.

Explosives

Three explosives, 4-amino-4,6-dinitrotoluene, HMX, and RDX were detected in Round 1 at Site 4. The maximum concentration of 4-amino-4,6-dinitrotoluene exceeded its screening level but it was not detected in subsequent rounds. RDX and HMX were also detected in Rounds 2, 3, and 4 with no significant change in concentrations. The concentrations of HMX did not exceed its screening levels in any rounds but RDX exceeded its screening level in all four rounds. Four additional explosives (2-amino-4,6-dinitrotoluene, 2,4-dinitrotoluene, 2,6-dinitrotoluene, and nitrobenzene) were detected in Round 2 with the maximum concentrations of 2-amino-4,6-dinitrotoluene and nitrobenzene exceeding their screening levels. Nitrobenzene was not detected in subsequent rounds but 2-amino-4,6-dinitrotoluene was detected in Rounds 3 and 4 with little change in concentration. The exceedances of explosives occurred mainly in Samples 04GW80, 04GW81D, and 04GW81S.

In summary, concentrations of explosives at Site 4 did not change greatly over the four rounds. Two compounds not detected in Round 1, 2-amino-4,6-dinitrotoluene and nitrobenzene, were detected in subsequent rounds at concentrations exceeding their screening levels.

Perchlorate

Perchlorate was detected in Rounds 1, 3 and 4 at Site 4 with concentrations exceeding the health-based action level in each round. Analysis for perchlorates was not performed in Round 2. The highest concentrations of perchlorate were found in samples 04GW15 and 04GW80, but perchlorate was not detected in most other samples collected at Site 4.

Inorganics

Twenty-four inorganics were detected in groundwater at Site 4 in all four rounds. The concentrations of nine of these metals were statistically determined be within naturally occurring levels by the Wilcoxon Rank Sum Test. The metals found to be within naturally occurring levels at Site 4 are: aluminum, beryllium, chromium, copper, lead, nickel, potassium, vanadium, and zinc. Cyanide, silver, and thallium were not detected in Round 1 but were detected in subsequent rounds. Maximum concentrations of cyanide were below the risk-based screening level, but the concentrations of silver and thallium exceeded their screening levels in Round 2. However, the concentrations of silver decreased below the screening level in Rounds 3 and 4. Concentrations of thallium exceeded its screening level in Rounds 2 and 4 but analytical results for thallium at similar concentrations were qualified "B" due to blank contamination in the

same rounds. The concentrations of most metals did not change greatly in Rounds 1, 2 and 3 at Site 4 but maximum concentrations of several metals decreased noticeably in Round 4.

In summary, no new exceedances for metals occurred in Rounds 2, 3, and 4 at Site 2. The concentrations of several metals selected as PCOCs in Round 1,2 and 3, namely, lead and selenium, were below screening levels in Round 4.

Deep Monitoring Wells

Five deep monitoring wells were installed at Site 4 for the 1999 field investigation (Wells 04GW101, 02GW103, 04GW105, 02GW106, and 04GW107). The analytical results for these wells (Appendix A-3) indicate that a number of VOCs, especially, 1,1,2,2-tetrachloroethane, cis-1,2-dichloroethene,TCE, and vinyl chloride were detected in all four rounds. The concentrations of VOCs in four of the deep wells were generally less than screening levels. However. the concentrations of 1,1,2,2-tetrachloroethane, cis-1,2-dichloroethene, TCE, and vinyl chloride in Well 04GW105 were among the highest reported in groundwater samples at Site 4. Several SVOCs (PAHs and phthalates) were detected in the deep wells at Site 4 but all concentrations were below screening levels. Two explosives, 4-amino-2,6-dinitrotoluene and nitrobenzene, were detected in the deep wells. The concentration of 4-amino-2,6-dinitrotoluene exceeded its screening level in Round 1 but it was not detected in Rounds 2, 3, or 4. Perchlorate was not detected in any deep well samples in any sampling round at Site 4.

SITE 7 – ORDNANCE BURN AREA

This addendum presents the comparison of analytical results of four rounds of groundwater samples collected in January/February, April, July/August, and October, 1999. Section D-4 presents a within-well comparison of analytical results for the four sampling rounds. The constituent concentrations are also compared to risk-based screening levels based on USEPA Region III RBCs for tap water and USEPA primary and secondary MCLs. Table 4 presents the maximum concentrations of detected compounds for the four sampling rounds and compares them to the risk-based screening levels. Figure 4 presents the groundwater sample locations and concentrations of constituents of concern for the four rounds at Site 7.

Volatile Organic Chemicals (VOCs)

Sixteen VOCs were detected in Round 1 samples at Site 7. However, ten of these were not detected in any samples collected in Rounds 2, 3 or 4. Four VOCs(1,1,2,2-tetrachloroethane, chloroform, cis-1,2-dichloroethene, and TCE) were detected in all fours rounds at concentrations exceeding screening levels and the concentrations of these compounds did not vary significantly over the four rounds. One

additional VOC (bromodichloromethane) was detected in 1 of 9 samples in Round 3 at a concentration which exceeded its screening level but it was not detected in Round 4.

For compounds detected in all four rounds, VOC concentrations generally remained constant over the four sampling rounds at Site 7 with the highest concentrations occurring in Wells 07GW41, 07GW43, and 07GW102.

In summary, ten VOCs (3 of which exceeded screening levels) detected in Round 1 were not detected in subsequent rounds. One new exceedance (bromodichloromethane) was reported in Round 3 but was not detected in Round 4. Therefore, the number of compounds exceeding screening levels decreased over the period in which samples were collected.

Semivolatile Organic Chemicals (SVOCs)

Five SVOCs (bis(2-ethylhexyl)phthalate (BEHP), di-n-butylphthalate, 1,3-dichlorobenzene, 1,4-dichlorobenzene, and 2,6-dinitrotoluene) were detected in Round 1 at Site 7 at concentrations below screening levels. Of these five, only 2,6-dinitrotoluene was detected in a subsequent round (Round 3). One new SVOC (2,4-dinitrotoluene) was detected in Round 3, but its concentration was below its screening level.

In summary, no SVOC exceedances occurred in Round 1 or in subsequent rounds at Site 7.

Pesticides/PCBs

Three pesticides (alpha-chlordane, gamma-chlordane, and gamma-BHC) were detected in groundwater in samples collected at Site 7. Alpha-chlordane was detected in all four rounds at concentrations below its screening level. Gamma-chlordane was detected in Rounds 2, 3 and 4 at concentrations below its screening level. The concentrations of these pesticides did not vary greatly over the year. Gamma-BHC was only detected in Round 1 with its maximum concentration exceeding its screening level. The pesticides were only detected in Wells 07GW101 and 07GW105.

In summary, no new pesticide exceedances occurred at Site 7 and the only pesticide (gamma-BHC) detected with a concentration above its screening level in Round 1 was not detected in subsequent rounds.

Explosives

Six explosives (1,3,5-trinitrobenzene, 2,4,6-trinitrotoluene, 2-amino-4,6-dinitrotoluene, 4-amino-4,6-dinitrotoluene, HMX, and RDX) were detected in Round 1 at Site 3. The concentrations of 1,3,5-trinitrobenzene were less than its screening level and it was not detected in Rounds 2, 3, or 4. 2,4,6-Trinitrotoluene, 2-amino-4,6-dinitrotoluene, 4-amino-4,6-dinitrotoluene, and RDX were detected in all rounds at concentrations exceeding screening levels. HMX was detected in all rounds but its concentrations were below its screening level in 3 of the 4 rounds. Therefore, explosives showed little variability over the four sampling rounds and no new explosive exceedances occurred at Site 7.

Perchlorate

Perchlorate was detected in Rounds 1, 3 and 4 at concentrations exceeding its health-based action level and maximum perchlorate concentrations showed little change among Rounds 1, 3 and 4 at Site 2. Analysis for perchlorates was not performed in Round 2.

Inorganics

Nineteen metals were detected in groundwater at Site 7 in all four rounds. The concentrations of twelve of these metals were statistically determined to be within naturally occurring levels by the Wilcoxon Rank Sum Test. The metals found to be within naturally occurring levels at Site 7 are: aluminum, barium, calcium, chromium, cobalt, iron, lead, manganese, nickel, potassium, sodium, and zinc. Copper and vanadium were not detected in Round 1 but were detected in subsequent rounds at concentrations below screening levels. Thallium was detected in Round 1 with concentrations above the screening level but it was not detected in Rounds 2, 3, or 4. In general, the concentrations of metals did not change greatly in the four rounds at Site 7 and no new exceedances occurred.

SITE 8 – ABANDONED CHEMICAL DISPOSAL PIT

This addendum presents the comparison of analytical results of four rounds of groundwater samples collected in January/February, April, July/August, and October, 1999. Section D-5 presents a within-well comparison of analytical results for the four sampling rounds. The constituent concentrations are also compared to risk-based screening levels based on USEPA Region III RBCs for tap water and USEPA primary and secondary MCLs. Table 5 presents the maximum concentrations of detected compounds for the four sampling rounds and compares them to the risk-based screening levels. Figure 5 presents the groundwater sample locations and concentrations of constituents of concern for the four rounds at Site 8.

Volatile Organic Chemicals (VOCs)

Five VOCs were detected in Round 1 samples at Site 8. Three of these VOCs (1,1,2-trichloroethane, chloroform, and vinyl chloride) were detected in all fours rounds at concentrations exceeding screening levels and the concentrations of these compounds did not vary greatly over the four rounds. Two additional VOCs (carbon disulfide and chlorobenzene) were detected in later rounds at concentration below their screening levels. Therefore, no new exceedances of screening levels were reported for Site 8 in Rounds 2, 3, 4.

Semivolatile Organic Chemicals (SVOCs)

Four SVOCs, (bis(2-ethylhexyl)phthalate (BEHP), diethylphthalate, dimethylphthalate, and di-n-butylphthalate, were detected at Site 8. The concentrations of these phthalates were below their respective screening levels except for BEHP in Round 3. However, BEHP analytical results in all other samples collected in Round 3 were qualified "B" due to blank contamination and the presence of BEHP is likely the result of laboratory contamination. Therefore no exceedances of screening levels occurred in Round 1 or in subsequent rounds at Site 8.

Inorganics

Twenty-one metals were detected in groundwater at Site 8 in all four rounds. The concentrations of six of these metals were statistically determined be within naturally occurring levels by the Wilcoxon Rank Sum Test. The metals found to be within naturally occurring levels at Site 8 are: barium, beryllium, lead, magnesium, nickel, and sodium. Silver was not detected in Round 1 but was detected in Round 3 at concentrations below its screening level. Cadmium was detected in 1 of 6 samples in Round 1 at a concentration which exceeded its screening level but concentrations of cadmium were below its screening level value in subsequent rounds. In general, the concentrations of metals did not change greatly in all four rounds at Site 8 and no new exceedances were reported.

SITE 9 – INDUSTRIAL WASTEWATER DISPOSAL AREA 300

This addendum presents the comparison of analytical results of all four rounds of groundwater samples collected in January/February, April, July/August, and October, 1999. Section D-6 presents a within-well comparison of analytical results for the four sampling rounds. The constituent concentrations are also compared to risk-based screening levels based on USEPA Region III RBCs for tap water and USEPA primary and secondary MCLs. Table 6 presents the maximum concentrations of detected compounds for the four sampling rounds and compares them to the risk-based screening levels. Figure 6 presents the groundwater sample locations and concentrations of constituents of concern for all four rounds at Site 9.

Volatile Organic Chemicals (VOCs)

Thirteen VOCs were detected in Round 1 samples at Site 9 and eight new VOCs were detected in Rounds 2, 3 and 4. Of these new exceedances, maximum concentrations of three compounds (1,1-dichloroethene, 1,2-dichloroethane, and chloromethane) exceeded their respective screening levels. However, 1,2-dichloroethane was not detected in Round 4 and the concentration of chloromethane was less than its screening level in Round 4. In general, the concentrations of most VOCs remained relatively unchanged over the four sampling rounds. The only new exceedance, 1,1-dichloroethene, was detected in only 1 of 31 samples in Round 4 at a concentration well below its analytical quantitation limit. Consequently the list of potential constituents of concern would not change from those identified in Round 1.

Semivolatile Organic Chemicals (SVOCs)

Two SVOCs (bis(2-ethylhexyl)phthalate (BEHP) and di-n-butylphthalate) were detected in Round 1 at Site 9 and no new SVOCs were detected in Rounds 2, 3, or 4. Concentrations of di-n-butylphthalate were below its screening level in all rounds. The concentrations of BEHP were below the screening level in Round 1 but exceeded the screening level in Rounds 3 and 4. However, BEHP analytical results in most samples collected in Round 3 were qualified "B" due to blank contamination. Therefore, for SVOCs, no exceedances of screening levels occurred in Round 1 or in subsequent rounds at Site 9.

Pesticides/PCBs

Four pesticides (4,4'-DDT, alpha-chlordane, gamma-chlordane, and heptachlor epoxide) were detected in groundwater in samples collected at Site 9. Alpha-chlordane and gamma-chlordane were detected in all four rounds at similar concentrations which exceeded the screening levels. Heptachlor epoxide was detected in Rounds 1 and 3 at concentrations exceeding its screening level. 4,4'-DDT was detected in only 1 of 31 samples in Round 1 at a concentration below the screening level. Therefore, no new pesticide exceedances occurred at Site 9 in Rounds 2, 3 and 4.

Explosives

Seven explosives (2,4,6-trinitrotoluene, 2,6-dinitrotoluene, 2-amino-4,6-dinitrotoluene, 4-amino-4,6-dinitrotoluene, 3-nitrotoluene, HMX, and RDX) were detected at Site 9. The concentration of 2,4,6-trinitrotoluene which was less than its screening level and it was not detected in subsequent rounds. 3-Nitrotoluene was only detected in Round 2 at a concentration less than its screening level. RDX was detected in all rounds at concentrations exceeding the screening level. 4-amino-4,6-Dinitrotoluene was detected in Round 2 at concentrations below screening levels and in 2 of 31 samples in Round 4 at concentrations exceeding its screening level. 2-Amino-4,6-dinitrotoluene exceeded its screening level in

Rounds 1 and 4 but was not detected in Rounds 2 and 3. HMX was detected in all rounds but its concentrations were below its screening level in all samples.

In summary, one new exceedance of screening levels (4-amino-4,6-dinitrotoluene) was reported for explosives at Site 9 but this compound was detected in only 2 of 31 samples. Concentrations of most explosives remained relatively unchanged over the four sampling rounds.

Perchlorate

Perchlorate was detected in Rounds 1, 3 and 4 at concentrations exceeding its health-based action level and maximum perchlorate concentrations increased over time. The maximum concentration of perchlorate was 71 µg/L in Round 1, 240 µg/L in Round 3 and 798 µg/L in Round 4. The results for Rounds 3 and 4 occurred in Well 09GW01, but perchlorate was not detected in this well in Round 1. Analysis for perchlorate was not performed in Round 2.

Inorganics

Twenty-four inorganics were detected in groundwater at Site 9 in all four rounds. The concentrations of eleven of these metals were statistically determined to be within naturally occurring levels by the Wilcoxon Rank Sum Test. The metals found to be within naturally occurring levels at Site 4 are: aluminum, barium, beryllium, calcium, chromium, copper, lead, magnesium, manganese, nickel, and potassium. Antimony was detected at a concentration above its screening level in Round 1 but was not detected in Rounds 2, 3, and 4. Cyanide, silver, and thallium were not detected in Round 1 but were detected in subsequent rounds. Maximum concentrations of cyanide and silver were below their risk-based screening levels but the concentrations of thallium exceeded its screening level in Rounds 2 and 3. However, the analytical results for thallium were qualified "B" due to blank contamination in the same rounds. In addition, it was not detected in Round 4. The maximum concentrations of most metals (not including those found to be within background levels) appeared to decrease over the four rounds at Site 9 with the concentrations in Round 4 being noticeably less than the concentrations in Rounds 1 and 2. However, these apparent decreases were not as evident when comparing concentrations within individual wells.

In summary, no new exceedances for metals occurred in Rounds 2, 3, and 4 at Site 9 and maximum concentrations of most metals decreased over the time that samples were collected.

Deep Monitoring Wells

Five deep monitoring wells were installed at Site 9 for the 1999 field investigation (Wells 09GW104, 09GW105, 09GW106, 09GW107, and 09GW108). The analytical results for these wells (Appendix A-6)

indicate that several VOCs (especially, chloroform, cis-1,2-dichloroethene and TCE) were detected in all four rounds at concentrations within the range of those found in the shallow wells at Site 9. Only the concentrations of chloroform and TCE in Well 09GW105 exceeded screening levels. Concentrations of VOCs in the other wells were less than screening levels. One SVOC (bis(2-ethylhexyl)phthalate (BEHP) was detected in the deep wells at concentrations below its screening level. However, the presence of BEHP is considered to be the result of laboratory contamination. Two explosives, HMX and RDX, were detected in the deep wells in all four rounds at concentrations similar to those in the shallow wells. The concentrations of RDX exceeded it screening level in all rounds. In general, fewer organic compounds were detected in the deep wells at Site 9. The concentrations of the detected compounds were within the range of those in the shallow wells. Perchlorate was detected in one deep well at Site 9 (Well 09GW105) in Rounds 3 and 4 at concentrations within the range of concentrations in the shallow wells but much less that the site maximum. The perchlorate concentration from Round 4 exceeded the health-based action level for perchlorate.

SECTION B

TABLES

COMPARISON OF MAXIMUM GROUNDWATER RESULTS FROM ROUNDS 1, 2, 3 AND 4

TABLE 1

COMPARISON OF ROUNDS 1,2,3, and 4
SITE 2
NSWC WHITE OAK
SILVER SPRING, MARYLAND

Parameter	First Round Maximum (µg/L)	Second Round Maximum (µg/L)	Third Round Maximum (µg/L)	Fourth Round Maximum (µg/L)	Risk-Based Screening Level (µg/L)
VOLATILES					
1,1,1-TRICHLOROETHANE	NA	0.19	0.21	NA	54
1,1-DICHLOROETHANE	NA	0.19	0.23	0.2	80
1,2-DICHLOROPROPANE	1.4	NA	NA	1	0.16
ACETONE	3.6	NA	NA	NA	61
BENZENE	1.1	NA	NA	NA	0.36
CARBON DISULFIDE	NA	NA	NA	0.2	100
CHLOROBENZENE	1	0.51	NA	0.5	11
CHLOROFORM	0.96	0.99	1.2	0.9	0.15
CHLOROMETHANE	0.29	0.29	NA	0.2	2.1
CIS-1,2-DICHLOROETHENE	7.1	3.9	2.8	3	6.1
METHYLENE CHLORIDE	1.9	NA	NA	NA	4.1
TRICHLOROETHENE	35	29	35	25	1.6
SEMIVOLATILES					
1,2-DICHLOROBENZENE	NA	NA	NA	0.1	55
1,3-DICHLOROBENZENE	NA	NA		0.2	0.55
4-BROMOPHENYL PHENYL ETHER	NA	NA	2.3	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	2.1	NA	43	NA	4.8
DIETHYL PHTHALATE	NA	NA	1.8	NA	2900
DI-N-BUTYL PHTHALATE	25	NA	NA	NA	370
EXPLOSIVES					
1,3-DINITROBENZENE	NA	NA	NA	NA	0.37
2,6-DINITROTOLUENE	0.26	NA	NA	NA	3.7
HMX	8.6	10	12	12	180
RDX	0.87	0.88	0.86	0.64	0.61
INORGANICS					
ALUMINUM	24700	28600	52500	5550	3700
ARSENIC	15.2	11	10	7.9	0.045
BARIUM	730	775	858	1180	260
BERYLLIUM	7	5.6	NA	NA	7.3
MAGNESIUM	130000	97900	88600	65200	NA
MANGANESE	24700	18700	18200	13100	73
MERCURY	2.4	2.5	1.8	1.6	1.1
NICKEL	206	159	155	130	73
POTASSIUM	34400	25800	26500	26800	NA
SILVER	NA	5.3	3.8	1.3	18
SODIUM	4720000	3500000	3400000	3270000	NA
THALLIUM	NA	NA	12.3	NA	0.26
VANADIUM	25.7	34.2	54.5	6.6	26
ZINC	411	321	300	236	1100
PERCHLORATES	5.89	NA	NA	NA	NA

TABLE 2

COMPARISON OF ROUNDS 1,2,3, and 4
SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND

Parameter	First Round Maximum (µg/L)	Second Round Maximum (µg/L)	Third Round Maximum (µg/L)	Fourth Round Maximum (µg/L)	Risk-Based Screening Level (µg/L)
VOLATILES					
1,1-DICHLOROETHANE	NA	0.2	NA	NA	80
ACETONE	3.1	NA	NA	NA	61
BENZENE	1.8	0.99	NA	2	0.36
BROMOMETHANE	NA	0.25	NA	NA	0.85
CHLOROBENZENE	29	16	48	35	11
CHLOROFORM	NA	NA	NA	0.16	0.15
CIS-1,2-DICHLOROETHENE	35	26	41	520	6.1
TETRACHLOROETHENE	0.62	0.29	0.36	0.3	1.1
TRANS-1,2-DICHLOROETHENE	5.3	2.2	5.4	6.2	12
TRICHLOROETHENE	21	4.5	24	250	1.6
VINYL CHLORIDE	3.3	2	4.3	19	0.019
SEMIVOLATILES					
1,2,4-TRICHLOROBENZENE	NA	NA	3.9	NA	19
1,2-DICHLOROBENZENE	NA	NA	NA	0.2	55
1,3-DICHLOROBENZENE	1.1	NA	1.4	1	0.55
1,4-DICHLOROBENZENE	2.6	0.75	NA	0.15	0.47
DI-N-BUTYL PHTHALATE	5.5	NA	NA	NA	370
EXPLOSIVES					
2,4,6-TRINITROTOLUENE	NA	NA	0.23	NA	2.2
2,4-DINITROTOLUENE	0.23	NA	NA	NA	7.3
HMX	0.75	0.89	1	1	180
RDX	0.81	1.7	1	0.95	0.61
INORGANICS					
ALUMINUM	39700	42800	70400	2970	3700
ANTIMONY	NA	NA	1.9	NA	1.5
ARSENIC	7.3	6	11.9		0.045
BARIUM	688	278	328	161	260
BERYLLIUM	6.2	NA	NA	NA	7.3
CALCIUM	41700	26600	26000	27600	NA
CHROMIUM	73.2	102	108	6.4	11
COBALT	37.4	35	79.1	19.1	220
COPPER	115	50.6	169	14	150
CYANIDE	NA	1.1	1.7	NA	73
IRON	91500	89800	105000	24000	1100
LEAD	32.2	19.2	49.3	3.2	15
MAGNESIUM	21100	17100	18900	18300	NA
MANGANESE	3460	2810	4730	2230	73
MERCURY	0.39	0.13	0.27	NA	1.1
NICKEL	55.4	63.5	106	49	73
POTASSIUM	9700	14000	20700	4820	NA
SELENIUM	NA	NA	5.8	NA	18
SILVER	NA	4.4	5.5	NA	18
SODIUM	30500	37200	37500	33200	NA
THALLIUM	NA	NA	3.9	NA	0.26
VANADIUM	83.3	84.4	141	7.5	26
ZINC	226	150	278	16.8	1100

TABLE 3

COMPARISON OF ROUNDS 1,2,3 and 4
SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND

Parameter	First Round Maximum (µg/L)	Second Round Maximum (µg/L)	Third Round Maximum (µg/L)	Fourth Round Maximum (µg/L)	Risk-Based Screening Level (µg/L)
VOLATILES					
1,1,1-TRICHLOROETHANE	0.32	0.18	NA	0.9	54
1,1,2,2-TETRACHLOROETHANE	330	350	340	380	0.053
1,1,2-TRICHLOROETHANE	0.73	3.3	5.5	1	0.19
1,1-DICHLOROETHANE	1.3	0.93	0.62	0.31	80
1,2-DICHLOROETHANE	0.63	1.7	1.5	1.8	0.12
ACETONE	NA	4.5	NA	NA	61
BENZENE	1.2	2.5	0.15	1.5	0.36
BROMOMETHANE	NA	NA	0.11	NA	0.85
CARBON DISULFIDE	NA	NA	0.65	NA	100
CARBON TETRACHLORIDE	NA	NA	NA	0.16	0.16
CHLOROBENZENE	77	48	39	43	11
CHLOROETHANE	0.74	1	0.62	NA	3.6
CHLOROFORM	0.86	40	2.4	20	0.15
CHLOROMETHANE	NA	0.26	NA	0.31	2.1
CIS-1,2-DICHLOROETHENE	8500	4100	380	340	6.1
ETHYLBENZENE	0.56	0.51	NA	0.81	130
METHYLENE CHLORIDE	NA	0.59	NA	NA	4.1
TETRACHLOROETHENE	1.9	7.2	5.4	8.1	1.1
TOLUENE	NA	0.53	NA	0.16	75
TRANS-1,2-DICHLOROETHENE	3.1	17	8.4	2.3	12
TRICHLOROETHENE	8500	11000	1400	1400	1.6
VINYL CHLORIDE	66	76	59	18	0.019
XYLENES, TOTAL	1.6	2	NA	2.2	1200
SEMIVOLATILES					
1,3-DICHLOROBENZENE	NA	0.44	NA	0.18	0.55
1,4-DICHLOROBENZENE	NA	1.4	0.49	0.64	0.47
2-METHYLNAPHTHALENE	2	2	NA	3	12
ACENAPHTHENE	1.1	11	NA	2.6	37
BIS(2-ETHYLHEXYL)PHTHALATE	2.1	NA	44	1.3	4.8
FLUORENE	NA	2.4	NA	NA	24
NAPHTHALENE	1.2	9.5	NA	2.1	0.65
PHENOL	1.5	1.1	NA	0.59	2200
EXPLOSIVES					
2,4-DINITROTOLUENE	NA	0.48	NA	NA	7.3
2,6-DINITROTOLUENE	NA	0.41	NA	NA	3.7
2-AMINO-4,6-DINITROTOLUENE	NA	0.28	0.31	0.29	0.22
4-AMINO-2,6-DINITROTOLUENE	0.8	NA	NA	NA	0.22
HMX	2	3.5	2	6.1	180
NITROBENZENE	NA	0.77	NA	NA	0.35
RDX	2.6	2	1.1	2.1	0.61
INORGANICS					
ALUMINUM	223000	48400	25300	20500	3700
ANTIMONY	3	NA	NA	1.8	1.5
ARSENIC	110	35.9	18.8	12.3	0.045
BARIUM	554	194	210	195	260
BERYLLIUM	4.7	0.52	NA	NA	7.3
CADMIUM	7.3	5	NA	NA	3.7
CALCIUM	119000	104000	86900	89800	NA
CHROMIUM	1260	650	672	59.1	11
COBALT	102	84	119	97.8	220
COPPER	265	196	219	38.9	150
CYANIDE	NA	NA	NA	3	73
IRON	329000	156000	126000	36400	1100
LEAD	146	109	23.5	13.8	15
MAGNESIUM	23200	20800	21300	20200	NA
MANGANESE	15100	2150	6170	1810	73
MERCURY	7.2	5.2	6.9	4.5	1.1
NICKEL	591	289	486	81	73
POTASSIUM	12500	7730	13100	6640	NA
SELENIUM	75	39.3	70.5	6.4	18
SILVER	NA	62.4	8.1	4	18
SODIUM	152000	73600	204000	72400	NA
THALLIUM	NA	5.3	NA	7.9	0.26
VANADIUM	707	258	151	76	26
ZINC	830	694	102	103	1100
PERCHLORATES	12.4	NA	10	76	NA

TABLE 4

COMPARISON OF ROUNDS 1,2,3, and 4
SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND

Parameter	First Round Maximum (µg/L)	Second Round Maximum (µg/L)	Third Round Maximum (µg/L)	Fourth Round Maximum (µg/L)	Risk-Based Screening Level (µg/L)
VOLATILES					
1,1,1-TRICHLOROETHANE	1.2	NA	NA	NA	54
1,1,2,2-TETRACHLOROETHANE	77	37	27	15	0.053
1,1,2-TRICHLOROETHANE	1.3	NA	NA	NA	0.19
1,1-DICHLOROETHANE	0.41	NA	NA	NA	80
1,1-DICHLOROETHENE	1.5	NA	NA	NA	0.044
1,2-DICHLOROETHANE	1.8	NA	NA	NA	0.12
BROMODICHLOROMETHANE	NA	NA	0.44	NA	0.17
CHLOROBENZENE	0.42	NA	4.2	NA	11
CHLOROFORM	1.8	1.5	20	21	0.15
CIS-1,2-DICHLOROETHENE	43	40	44	19	6.1
TETRACHLOROETHENE	0.63	NA	NA	NA	1.1
TOLUENE	0.41	NA	NA	NA	75
TRANS-1,2-DICHLOROETHENE	0.46	NA	NA	NA	12
TRICHLOROETHENE	370	710	710	390	1.6
VINYL CHLORIDE	1.6	NA	NA	NA	0.019
XYLENES, TOTAL	0.49	NA	NA	NA	1200
SEMIVOLATILES					
1,3-DICHLOROBENZENE	0.35	NA	NA	NA	0.55
1,4-DICHLOROBENZENE	0.26	NA	NA	0.11	0.47
2,4-DINITROTOLUENE	NA	NA	1.3	NA	7.3
2,6-DINITROTOLUENE	1.3	NA	2	NA	3.7
BIS(2-ETHYLHEXYL)PHTHALATE	1.1	NA	NA	NA	4.8
DI-N-BUTYL PHTHALATE	1.9	NA	NA	NA	370
PESTICIDES/PCBS					
ALPHA-CHLORDANE	0.052	0.044	0.042	0.045	0.19
GAMMA-BHC (LINDANE)	0.058	NA	NA	NA	0.052
GAMMA-CHLORDANE	NA	0.049	0.049	0.052	0.19
EXPLOSIVES					
1,3,5-TRINITROBENZENE	2.3	NA	NA	NA	110
2,4,6-TRINITROTOLUENE	210	150	300	410	2.2
2-AMINO-4,6-DINITROTOLUENE	62	48	94	120	0.22
4-AMINO-2,6-DINITROTOLUENE	110	84	150	210	0.22
HMX	140	160	190	170	180
RDX	510	330	590	770	0.61
INORGANICS					
ALUMINUM	1010	1210	1990	1810	3700
ARSENIC	2.8	NA	NA	NA	0.045
BARIUM	63.8	69.1	72.3	74.4	260
CALCIUM	16400	15600	15000	14300	NA
CHROMIUM	59	771	31.9	51	11
COBALT	25	18.5	10	8.7	220
COPPER	NA	22.1	8.5	7.2	150
IRON	3780	5810	9070	4640	1100
LEAD	3.1	1.9	2.8	NA	15
MAGNESIUM	11400	10600	11300	10400	NA
MANGANESE	139	141	137	145	73
MERCURY	5.5	6.9	7.2	4	1.1
NICKEL	153	703	21.3	38.2	73
POTASSIUM	1500	1920	2100	1740	NA
SELENIUM	4.9	3	NA	4	18
SODIUM	15800	20700	15400	12400	NA
THALLIUM	5.6	NA	NA	NA	0.26
VANADIUM	NA	8.7	18.2	6.7	26
ZINC	22.2	19.3	34.1	20.3	1100
PERCHLORATES	28.4	NA	16	29	NA

TABLE 5

COMPARISON OF ROUNDS 1,2,3, and 4
SITE 8
NSWC WHITE OAK
SILVER SPRING, MARYLAND

Parameter	First Round Maximum (µg/L)	Second Round Maximum (µg/L)	Third Round Maximum (µg/L)	Fourth Round Maximum (µg/L)	Risk-Based Screening Level (µg/L)
VOLATILES					
1,1,2-TRICHLOROETHANE	1.7	1.6	1.3	2.6	0.19
CARBON DISULFIDE	NA	11	NA	3.1	100
CHLOROBENZENE	NA	NA	NA	0.26	11
CHLOROFORM	7.2	6	15	17	0.15
TOLUENE	0.65	NA	NA	NA	75
VINYL CHLORIDE	0.92	0.56	NA	0.53	0.019
XYLENES, TOTAL	1	NA	NA	0.17	1200
SEMIVOLATILES					
BIS(2-ETHYLHEXYL)PHTHALATE	1.8	NA	51	NA	4.8
DIETHYL PHTHALATE	1.6	NA	4.9	NA	2900
DIMETHYL PHTHALATE	NA	NA	1.6	NA	37000
DI-N-BUTYL PHTHALATE	NA	1.6	NA	NA	370
INORGANICS					
ALUMINUM	16800	104000	72500	45100	3700
ARSENIC	5.3	NA	17.4	11.6	0.045
BARIUM	563	921	674	533	260
BERYLLIUM	7	13.4	11.9	6.2	7.3
CADMIUM	13.5	NA	3.1	2	3.7
CALCIUM	25600	14600	14800	12800	NA
CHROMIUM	211	317	756	99.4	11
COBALT	57.2	94.4	69.4	42.4	220
COPPER	93.1	167	119	66.3	150
IRON	44700	200000	120000	82900	1100
LEAD	22.8	38.9	30.8	23.9	15
MAGNESIUM	14300	40500	26700	18700	NA
MANGANESE	2430	2440	2060	1370	73
MERCURY	0.28	0.56	0.19	0.39	1.1
NICKEL	179	251	573	98.1	73
POTASSIUM	12500	46600	27200	23800	NA
SILVER	NA	NA	3.5	NA	18
SODIUM	7960	9290	8950	8430	NA
THALLIUM	4	19.2	9.6	NA	0.26
VANADIUM	40	258	166	97	26
ZINC	178	509	358	276	1100

TABLE 6

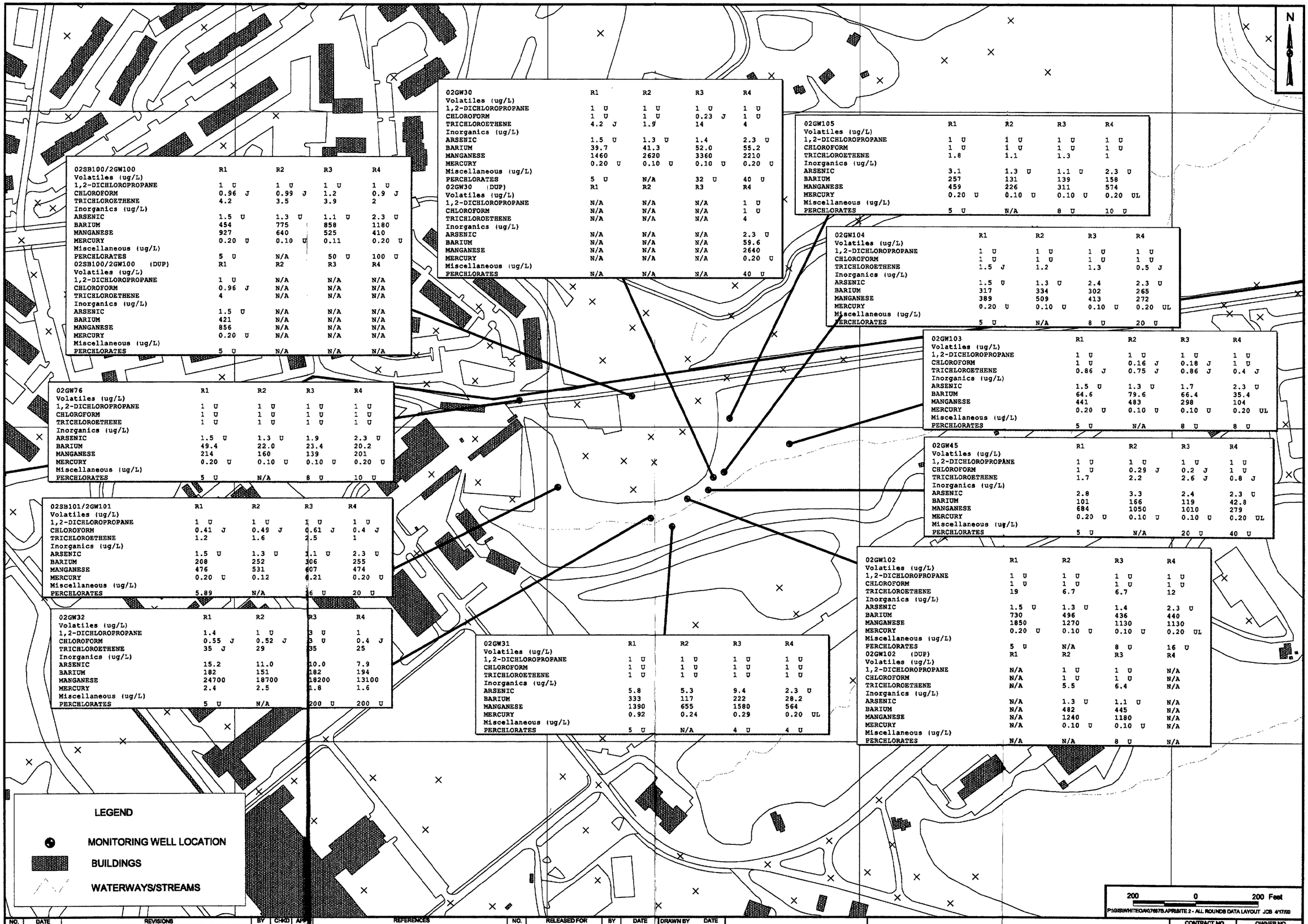
COMPARISON OF ROUNDS 1,2,3, and 4
SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND

Parameter	First Round Maximum (µg/L)	Second Round Maximum (µg/L)	Third Round Maximum (µg/L)	Fourth Round. Maximum (µg/L)	Risk-Based Screening Level (µg/L)
VOLATILES					
1,1,1-TRICHLOROETHANE	0.34	0.37	0.44	0.35	54
1,1,2,2-TETRACHLOROETHANE	3.3	2.7	NA	4.1	0.053
1,1-DICHLOROETHENE	NA	NA	NA	0.14	0.044
1,2-DICHLOROETHANE	NA	NA	0.49	NA	0.12
2-BUTANONE	NA	NA	6.8	NA	190
ACETONE	12		36	NA	61
BENZENE	0.19	0.19	0.26	NA	0.36
BROMODICHLOROMETHANE	0.92	0.74	0.36	0.41	0.17
BROMOMETHANE	0.24	NA	NA	NA	0.85
CARBON TETRACHLORIDE	0.58	1	0.87	0.94	0.16
CHLOROBENZENE	NA	NA	0.23	NA	11
CHLOROFORM	22	20	8.4	10	0.15
CHLOROMETHANE	NA	NA	2.7	0.14	2.1
CIS-1,2-DICHLOROETHENE	4.9	5	3.6	5.5	6.1
ETHYLBENZENE	0.11	NA	NA	NA	130
METHYLENE CHLORIDE	NA	0.25	NA	NA	4.1
TETRACHLOROETHENE	5	6.5	4.7	5.6	1.1
TOLUENE	0.47	NA	0.41	NA	75
TRANS-1,2-DICHLOROETHENE	NA	NA	NA	0.27	12
TRICHLOROETHENE	45	56	27	75	1.6
XYLENES, TOTAL	NA	NA	0.43	NA	1200
SEMIVOLATILES					
BIS(2-ETHYLHEXYL)PHTHALATE	3	NA	120	4.8	4.8
DI-N-BUTYL PHTHALATE	1.4	NA	1.2	NA	370
PESTICIDES/PCBS					
4,4'-DDT	0.0049	NA	NA	NA	0.2
ALPHA-CHLORDANE	0.31	0.26	0.34	0.26	0.19
GAMMA-CHLORDANE	0.26	0.23	0.28	0.21	0.19
HEPTACHLOR EPOXIDE	0.013	NA	0.039	NA	0.0074
EXPLOSIVES					
2,4,6-TRINITROTOLUENE	0.47	NA	NA	NA	2.2
2,6-DINITROTOLUENE	0.3	0.35	0.32	0.26	3.7
2-AMINO-4,6-DINITROTOLUENE	0.41	NA	NA	1	0.22
3-NITROTOLUENE	NA	0.63	NA	NA	12
4-AMINO-2,6-DINITROTOLUENE	NA	0.2	NA	0.92	0.22
HMX	10	18	13	22	180
RDX	130	150	160	150	0.61
INORGANICS					
ALUMINUM	108000	89100	19900	15800	3700
ANTIMONY	2	NA	NA	NA	1.5
ARSENIC	25	69.9	17.8	7.4	0.045
BARIUM	369	344	151	114	260
BERYLLIUM	8.3	2.2	0.17	NA	7.3
CADMIUM	26.9	3.1	6.7	9.9	3.7
CALCIUM	62200	20000	23900	26300	NA
CHROMIUM	193	534	106	71.4	11
COBALT	87.5	61	62	23.8	220
COPPER	129	300	79.6	64.3	150
CYANIDE	NA	2.3	NA	2.4	73
IRON	136000	248000	95200	34300	1100
LEAD	58.7	85	35.7	12.3	15
MAGNESIUM	14000	9670	13700	10400	NA
MANGANESE	1930	1150	1280	1170	73
MERCURY	12	3.8	8.1	2.7	1.1
NICKEL	85.8	259	71.7	71.8	73
POTASSIUM	11800	10600	11000	10800	NA
SELENIUM	24.8	125	23.2	7.1	18
SILVER	NA	4.3	2.4	2.9	18
SODIUM	47800	47700	49200	50900	NA
THALLIUM	NA	3.4	4.9	NA	0.26
VANADIUM	209	570	150	72.9	26
ZINC	627	355	801	264	1100
PERCHLORATES	71	NA	240	798	NA

SECTION C

FIGURES

SUMMARY OF EXCEEDENCES OF REGION 3 RBCS FOR ROUNDS 1, 2, 3 AND 4



02GW30	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	0.23 J	1 U
TRICHLOROETHENE	4.2 J	1.9	14	4
Inorganics (ug/L)				
ARSENIC	1.5 U	1.3 U	1.4	2.3 U
BARIUM	39.7	41.3	52.0	55.2
MANGANESE	1460	2620	3360	2210
MERCURY	0.20 U	0.10 U	0.10 U	0.20 U
Miscellaneous (ug/L)				
PERCHLORATES	5 U	N/A	32 U	40 U
02GW30 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROPROPANE	N/A	N/A	N/A	1 U
CHLOROFORM	N/A	N/A	N/A	1 U
TRICHLOROETHENE	N/A	N/A	N/A	4
Inorganics (ug/L)				
ARSENIC	N/A	N/A	N/A	2.3 U
BARIUM	N/A	N/A	N/A	59.6
MANGANESE	N/A	N/A	N/A	2640
MERCURY	N/A	N/A	N/A	0.20 U
Miscellaneous (ug/L)				
PERCHLORATES	N/A	N/A	N/A	40 U

02GW105	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1.8	1.1	1.3	1
Inorganics (ug/L)				
ARSENIC	3.1	1.3 U	1.1 U	2.3 U
BARIUM	257	131	139	158
MANGANESE	459	226	311	574
MERCURY	0.20 U	0.10 U	0.10 U	0.20 UL
Miscellaneous (ug/L)				
PERCHLORATES	5 U	N/A	8 U	10 U

02SB100/2GW100	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U
CHLOROFORM	0.96 J	0.99 J	1.2	0.9 J
TRICHLOROETHENE	4.2	3.5	3.9	2
Inorganics (ug/L)				
ARSENIC	1.5 U	1.3 U	1.1 U	2.3 U
BARIUM	454	775	858	1180
MANGANESE	927	640	525	410
MERCURY	0.20 U	0.10 U	0.11	0.20 U
Miscellaneous (ug/L)				
PERCHLORATES	5 U	N/A	50 U	100 U
02SB100/2GW100 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROPROPANE	1 U	N/A	N/A	N/A
CHLOROFORM	0.96 J	N/A	N/A	N/A
TRICHLOROETHENE	4	N/A	N/A	N/A
Inorganics (ug/L)				
ARSENIC	1.5 U	N/A	N/A	N/A
BARIUM	421	N/A	N/A	N/A
MANGANESE	856	N/A	N/A	N/A
MERCURY	0.20 U	N/A	N/A	N/A
Miscellaneous (ug/L)				
PERCHLORATES	5 U	N/A	N/A	N/A

02GW104	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1.5 J	1.2	1.3	0.5 J
Inorganics (ug/L)				
ARSENIC	1.5 U	1.3 U	2.4	2.3 U
BARIUM	317	334	302	265
MANGANESE	389	509	413	272
MERCURY	0.20 U	0.10 U	0.10 U	0.20 UL
Miscellaneous (ug/L)				
PERCHLORATES	5 U	N/A	8 U	20 U

02GW103	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	0.16 J	0.18 J	1 U
TRICHLOROETHENE	0.86 J	0.75 J	0.86 J	0.4 J
Inorganics (ug/L)				
ARSENIC	1.5 U	1.3 U	1.7	2.3 U
BARIUM	64.6	79.6	66.4	35.4
MANGANESE	441	483	298	104
MERCURY	0.20 U	0.10 U	0.10 U	0.20 UL
Miscellaneous (ug/L)				
PERCHLORATES	5 U	N/A	8 U	8 U

02GW76	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ARSENIC	1.5 U	1.3 U	1.9	2.3 U
BARIUM	49.4	22.0	23.4	20.2
MANGANESE	214	160	139	201
MERCURY	0.20 U	0.10 U	0.10 U	0.20 U
Miscellaneous (ug/L)				
PERCHLORATES	5 U	N/A	8 U	10 U

02GW45	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	0.29 J	0.2 J	1 U
TRICHLOROETHENE	1.7	2.2	2.6 J	0.8 J
Inorganics (ug/L)				
ARSENIC	2.8	3.3	2.4	2.3 U
BARIUM	101	166	119	42.8
MANGANESE	684	1050	1010	279
MERCURY	0.20 U	0.10 U	0.10 U	0.20 UL
Miscellaneous (ug/L)				
PERCHLORATES	5 U	N/A	20 U	40 U

02SB101/2GW101	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U
CHLOROFORM	0.41 J	0.49 J	0.61 J	0.4 J
TRICHLOROETHENE	1.2	1.6	2.5	1
Inorganics (ug/L)				
ARSENIC	1.5 U	1.3 U	1.1 U	2.3 U
BARIUM	208	252	306	255
MANGANESE	476	531	607	474
MERCURY	0.20 U	0.12	0.21	0.20 U
Miscellaneous (ug/L)				
PERCHLORATES	5.89	N/A	16 U	20 U

02GW32	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROPROPANE	1.4	1 U	3 U	1
CHLOROFORM	0.55 J	0.52 J	3 U	0.4 J
TRICHLOROETHENE	35 J	29	35	25
Inorganics (ug/L)				
ARSENIC	15.2	11.0	10.0	7.9
BARIUM	182	151	182	194
MANGANESE	24700	18700	18200	13100
MERCURY	2.4	2.5	1.8	1.6
Miscellaneous (ug/L)				
PERCHLORATES	5 U	N/A	200 U	200 U

02GW31	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ARSENIC	5.8	5.3	9.4	2.3 U
BARIUM	333	117	222	28.2
MANGANESE	1390	655	1580	564
MERCURY	0.92	0.24	0.29	0.20 UL
Miscellaneous (ug/L)				
PERCHLORATES	5 U	N/A	4 U	4 U

02GW102	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U
TRICHLOROETHENE	19	6.7	6.7	12
Inorganics (ug/L)				
ARSENIC	1.5 U	1.3 U	1.4	2.3 U
BARIUM	730	496	436	440
MANGANESE	1850	1270	1130	1130
MERCURY	0.20 U	0.10 U	0.10 U	0.20 UL
Miscellaneous (ug/L)				
PERCHLORATES	5 U	N/A	8 U	16 U
02GW102 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROPROPANE	N/A	1 U	1 U	N/A
CHLOROFORM	N/A	1 U	1 U	N/A
TRICHLOROETHENE	N/A	5.5	6.4	N/A
Inorganics (ug/L)				
ARSENIC	N/A	1.3 U	1.1 U	N/A
BARIUM	N/A	482	445	N/A
MANGANESE	N/A	1240	1180	N/A
MERCURY	N/A	0.10 U	0.10 U	N/A
Miscellaneous (ug/L)				
PERCHLORATES	N/A	N/A	8 U	N/A

NO.	DATE	REVISIONS	BY	CHKD	APP

REFERENCES	NO.	RELEASED FOR	BY	DATE

DRAWN BY	DATE
J. BELLONE	4/11/00
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE	
AS NOTED	

Tetra Tech NUS, Inc.

CONSTITUENTS IN GROUNDWATER
THAT EXCEED SCREENING CRITERIA
ROUNDS 1 THROUGH 4
SITE 2 - APPLE ORCHARD LANDFILL
NSWC WHITE OAK
SILVER SPRING, MARYLAND

CONTRACT NO.	OWNER NO.
7687	
APPROVED BY	DATE
Pyc	4/18/00
APPROVED BY	DATE
DRAWING NO.	REV.
FIGURE 1	0

00408EBIX

03GW104	R1	R2	R3	R4
Volatiles (ug/L)				
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	3.7	2.4	3.5	3.2
TRICHLOROETHENE	6.3 J	3.3	6.5	4.5
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ARSENIC	1.5 U	1.3 U	1.1 U	2.4 U
BARIUM	141	157	159	137
MANGANESE	237	271	273	340
IRON	4190	4600	6130	3760
Explosives (ug/L)				
RDX	0.95 U	0.5 U	0.5 U	0.5 U

03GW17	R1	R2	R3	R4
Volatiles (ug/L)				
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	0.28 J	0.2 J
TRICHLOROETHENE	1 U	1 U	1 U	1 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ARSENIC	1.5 U	1.3 U	1.1 U	2.3 U
BARIUM	87.3	64.6	87.0	97.9
MANGANESE	1550	1230	1350	1530
IRON	7950	6830	8360	7840 J
Explosives (ug/L)				
RDX	3.5 U	0.5 U	0.5 U	0.5 U
03GW17 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,3-DICHLOROBENZENE	N/A	1 U	1 U	N/A
BENZENE	N/A	1 U	1 U	N/A
CHLOROBENZENE	N/A	1 U	1 U	N/A
CHLOROFORM	N/A	1 U	1 U	N/A
CIS-1,2-DICHLOROETHENE	N/A	1 U	0.26 J	N/A
TRICHLOROETHENE	N/A	1 U	1 UJ	N/A
VINYL CHLORIDE	N/A	1 U	1 U	N/A
Inorganics (ug/L)				
ARSENIC	N/A	1.3 U	1.1 U	N/A
BARIUM	N/A	64.8	89.1	N/A
MANGANESE	N/A	1220	1400	N/A
IRON	N/A	6820	8610	N/A
Explosives (ug/L)				
RDX	N/A	0.5 U	0.5 U	N/A

03GW18	R1	R2	R3	R4
Volatiles (ug/L)				
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	0.38 J	1 U
CHLOROFORM	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	0.71 J	1 U	2.9	2.7
TRICHLOROETHENE	0.26 J	1 U	0.81 J	0.87 J
VINYL CHLORIDE	1 U	1 U	0.39 J	0.44 J
Inorganics (ug/L)				
ARSENIC	1.5 U	1.3 U	1.1 U	2.4 U
BARIUM	50.0	46.4	54.6	38.5
MANGANESE	1380	1220	1600	1800
IRON	10400	9480	13100	7110
Explosives (ug/L)				
RDX	4 U	0.5 U	0.5 U	0.5 U
03GW18 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,3-DICHLOROBENZENE	1 U	N/A	N/A	N/A
BENZENE	1 U	N/A	N/A	N/A
CHLOROBENZENE	1 U	N/A	N/A	N/A
CHLOROFORM	1 U	N/A	N/A	N/A
CIS-1,2-DICHLOROETHENE	0.72 J	N/A	N/A	N/A
TRICHLOROETHENE	0.27 J	N/A	N/A	N/A
VINYL CHLORIDE	1 U	N/A	N/A	N/A
Inorganics (ug/L)				
ARSENIC	1.5 U	N/A	N/A	N/A
BARIUM	48.7	N/A	N/A	N/A
MANGANESE	1340	N/A	N/A	N/A
IRON	10300	N/A	N/A	N/A
Explosives (ug/L)				
RDX	4 U	N/A	N/A	N/A

03GW102	R1	R2	R3	R4
Volatiles (ug/L)				
1,3-DICHLOROBENZENE	1 U	2 U	5 U	30 U
BENZENE	1 U	2 U	5 U	30 U
CHLOROBENZENE	1 U	2 U	5 U	30 U
CHLOROFORM	1 U	2 U	5 U	30 U
CIS-1,2-DICHLOROETHENE	35	10	41	520
TRICHLOROETHENE	21 J	4.5 J	24	250
VINYL CHLORIDE	1.5	0.37 J	1.5 J	19 J
Inorganics (ug/L)				
ARSENIC	1.5 U	1.3 U	1.1 U	2.4 U
BARIUM	139	153	147	136
MANGANESE	218	288	268	241
IRON	4330	6390	6180	5600
Explosives (ug/L)				
RDX	0.50 U	0.5 U	0.5 U	0.5 U

03GW107	R1	R2	R3	R4
Volatiles (ug/L)				
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	0.17 J	0.32 B	0.1 J
CHLOROBENZENE	0.65 J	0.42 J	0.21 B	0.4 J
CHLOROFORM	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	3.4	1.4	8.9	1
TRICHLOROETHENE	0.59 J	0.36 J	0.88 J	0.2 J
VINYL CHLORIDE	0.25 J	0.18 J	1.3	1 U
Inorganics (ug/L)				
ARSENIC	1.5 U	2.3 B	11.9	2.3 U
BARIUM	52.9	57.4	328	72.3
MANGANESE	3460	2810	4730	2230
IRON	9000	18300	105000	3540 J
Explosives (ug/L)				
RDX	0.81	1.7	1	0.95

03GW19	R1	R2	R3	R4
Volatiles (ug/L)				
1,3-DICHLOROBENZENE	1.1	3 U	1.4 J	1 J
BENZENE	1.8	0.99 J	1.9 B	2
CHLOROBENZENE	29	16	48	35
CHLOROFORM	1 U	3 U	3 U	2 U
CIS-1,2-DICHLOROETHENE	23	26	25	24
TRICHLOROETHENE	1.2 J	4.4	1.1 J	0.6 J
VINYL CHLORIDE	3.3	2 J	4.3	4
Inorganics (ug/L)				
ARSENIC	1.5 U	1.8	1.1 U	2.3 U
BARIUM	149	177	166	161
MANGANESE	547	598	738	924
IRON	13600	21600	14900	24000 J
Explosives (ug/L)				
RDX	0.50 U	0.5 U	0.5 U	0.5 U

03GW78S	R1	R2	R3	R4
Volatiles (ug/L)				
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	0.16 J
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ARSENIC	1.5 U	1.3 U	1.1 U	2.4 U
BARIUM	46.6	48.1	39.0	39.2
MANGANESE	98.0	88.3	99.4	170
IRON	314 B	2770	445	561
Explosives (ug/L)				
RDX	0.50 U	0.5 U	0.5 U	0.5 U

03GW47	R1	R2	R3	R4
Volatiles (ug/L)				
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	0.22 J	0.57 J	0.2 J
TRICHLOROETHENE	1 U	0.2 J	0.48 J	0.1 J
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ARSENIC	7.3	3.9	1.2	2.3 U
BARIUM	688	154	129	73.7
MANGANESE	2070	436	1190	621
IRON	91500	36700	21800	4230 J
Explosives (ug/L)				
RDX	0.50 U	0.5 U	0.86 U	0.5 U

03GW78D	R1	R2	R3	R4
Volatiles (ug/L)				
1,3-DICHLOROBENZENE	1.0 U	1 U	1 U	1 U
BENZENE	1.0 U	1 U	1 U	1 U
CHLOROBENZENE	1.0 U	1 U	1 U	1 U
CHLOROFORM	1.0 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	1 U
TRICHLOROETHENE	1.0 U	1 U	1 U	1 U
VINYL CHLORIDE	1.0 U	1 U	1 U	1 U
Inorganics (ug/L)				
ARSENIC	1.5 U	1.4	1.1 U	2.4 U
BARIUM	97.6	97.5	104	98.8
MANGANESE	81.8	83.3	87.7	90.5
IRON	655 J	886	777	1060
Explosives (ug/L)				
RDX	0.50 U	0.5 U	0.5 U	0.5 U

03GW77	R1	R2	R3	R4
Volatiles (ug/L)				
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	0.86 J	0.7 J	1.5	1
TRICHLOROETHENE	1 U	1 U	0.32 J	0.1 J
VINYL CHLORIDE	1 U	1 U	1 U	0.08 J
Inorganics (ug/L)				
ARSENIC	2.6	6.0	3.2	2.3 U
BARIUM	168	278	142	79.7
MANGANESE	1110	1400	1130	980
IRON	36200	89800	44700	22300
Explosives (ug/L)				
RDX	0.50 U	0.5 U	0.5 U	0.5 U

LEGEND

MONITORING WELL LOCATION

BUILDINGS

WATERWAYS/STREAMS

100 0 100 Feet

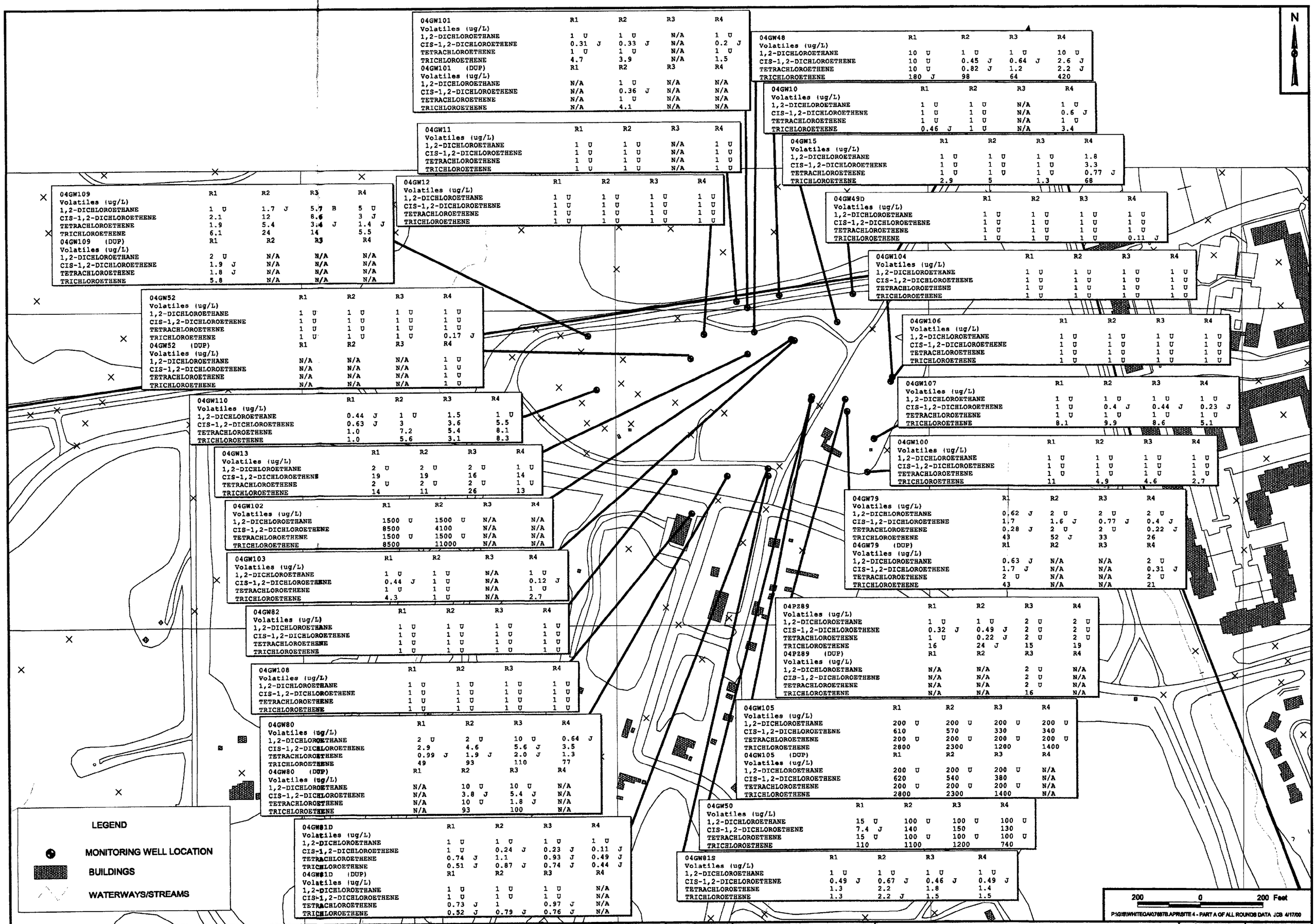
P:\GIS\WHITEOAK\7687.APR\SITE 3 - ALL ROUNDS DATA LAYOUT JCB 4/11/00

Tetra Tech NUS, Inc.

CONSTITUENTS IN GROUNDWATER THAT EXCEED SCREENING CRITERIA
ROUNDS 1 THROUGH 4
SITE 3 - PISTOL RANGE LANDFILL
NSWC WHITE OAK
SILVER SPRING, MARYLAND

DRAWN BY J. BELLONE 4/11/00
CHECKED BY
SCALE AS NOTED
COST/SCHEDULE-AREA
CONTRACT NO. 7687
OWNER NO.
APPROVED BY
APPROVED BY
DATE 4/18/00
DRAWING NO. FIGURE 2
REV. 0

NO. DATE REVISIONS BY CHKD APPD
NO. RELEASED FOR BY DATE
REFERENCES



04GW101	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	N/A	1 U
CIS-1,2-DICHLOROETHENE	0.31 J	0.33 J	N/A	0.2 J
TETRACHLOROETHENE	1 U	1 U	N/A	1 U
TRICHLOROETHENE	4.7	3.9	N/A	1.5
04GW101 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	N/A	1 U	N/A	N/A
CIS-1,2-DICHLOROETHENE	N/A	0.36 J	N/A	N/A
TETRACHLOROETHENE	N/A	1 U	N/A	N/A
TRICHLOROETHENE	N/A	4.1	N/A	N/A

04GW48	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	10 U	1 U	1 U	10 U
CIS-1,2-DICHLOROETHENE	10 U	0.45 J	0.64 J	2.6 J
TETRACHLOROETHENE	10 U	0.82 J	1.2	2.2 J
TRICHLOROETHENE	180 J	98	64	420

04GW10	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	N/A	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	N/A	0.6 J
TETRACHLOROETHENE	1 U	1 U	N/A	1 U
TRICHLOROETHENE	0.46 J	1 U	N/A	3.4

04GW11	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	N/A	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	N/A	1 U
TETRACHLOROETHENE	1 U	1 U	N/A	1 U
TRICHLOROETHENE	1 U	1 U	N/A	1 U

04GW15	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	1 U	1.8
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	3.3
TETRACHLOROETHENE	1 U	1 U	1 U	0.77 J
TRICHLOROETHENE	2.9	5	1.3	68

04GW12	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U

04GW109	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1.7 J	5.7 B	5 U
CIS-1,2-DICHLOROETHENE	2.1	12	8.6	3 J
TETRACHLOROETHENE	1.9	5.4	3.4 J	1.4 J
TRICHLOROETHENE	6.1	24	14	5.5
04GW109 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	2 U	N/A	N/A	N/A
CIS-1,2-DICHLOROETHENE	1.9 J	N/A	N/A	N/A
TETRACHLOROETHENE	1.8 J	N/A	N/A	N/A
TRICHLOROETHENE	5.8	N/A	N/A	N/A

04GW49D	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	0.11 J

04GW104	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U

04GW52	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	0.17 J
04GW52 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	N/A	N/A	N/A	1 U
CIS-1,2-DICHLOROETHENE	N/A	N/A	N/A	1 U
TETRACHLOROETHENE	N/A	N/A	N/A	1 U
TRICHLOROETHENE	N/A	N/A	N/A	1 U

04GW106	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U

04GW107	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	0.4 J	0.44 J	0.23 J
TETRACHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	8.1	9.9	8.6	5.1

04GW110	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	0.44 J	1 U	1.5	1 U
CIS-1,2-DICHLOROETHENE	0.63 J	3	3.6	5.5
TETRACHLOROETHENE	1.0	7.2	5.4	8.1
TRICHLOROETHENE	1.0	5.6	3.1	8.3

04GW100	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	11	4.9	4.6	2.7

04GW13	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	2 U	2 U	2 U	1 U
CIS-1,2-DICHLOROETHENE	19	19	16	14
TETRACHLOROETHENE	2 U	2 U	2 U	1 U
TRICHLOROETHENE	14	11	26	13

04GW79	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	0.62 J	2 U	2 U	2 U
CIS-1,2-DICHLOROETHENE	1.7	1.6 J	0.77 J	0.4 J
TETRACHLOROETHENE	0.28 J	2 U	2 U	0.22 J
TRICHLOROETHENE	43	52 J	33	26
04GW79 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	0.63 J	N/A	N/A	2 U
CIS-1,2-DICHLOROETHENE	1.7 J	N/A	N/A	0.31 J
TETRACHLOROETHENE	2 U	N/A	N/A	2 U
TRICHLOROETHENE	43	N/A	N/A	21

04GW102	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1500 U	1500 U	N/A	N/A
CIS-1,2-DICHLOROETHENE	8500	4100	N/A	N/A
TETRACHLOROETHENE	1500 U	1500 U	N/A	N/A
TRICHLOROETHENE	8500	11000	N/A	N/A

04GW103	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	N/A	1 U
CIS-1,2-DICHLOROETHENE	0.44 J	1 U	N/A	0.12 J
TETRACHLOROETHENE	1 U	1 U	N/A	1 U
TRICHLOROETHENE	4.3	1 U	N/A	2.7

04GW82	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U

04PZ89	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	2 U	2 U
CIS-1,2-DICHLOROETHENE	0.32 J	0.49 J	2 U	2 U
TETRACHLOROETHENE	1 U	0.22 J	2 U	2 U
TRICHLOROETHENE	16	24 J	15	19
04PZ89 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	N/A	N/A	2 U	N/A
CIS-1,2-DICHLOROETHENE	N/A	N/A	2 U	N/A
TETRACHLOROETHENE	N/A	N/A	2 U	N/A
TRICHLOROETHENE	N/A	N/A	16	N/A

04GW108	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U

04GW105	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	200 U	200 U	200 U	200 U
CIS-1,2-DICHLOROETHENE	610	570	330	340
TETRACHLOROETHENE	200 U	200 U	200 U	200 U
TRICHLOROETHENE	2800	2300	1200	1400
04GW105 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	200 U	200 U	200 U	N/A
CIS-1,2-DICHLOROETHENE	620	540	380	N/A
TETRACHLOROETHENE	200 U	200 U	200 U	N/A
TRICHLOROETHENE	2800	2300	1400	N/A

04GW80	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	2 U	2 U	10 U	0.64 J
CIS-1,2-DICHLOROETHENE	2.9	4.6	5.6 J	3.5
TETRACHLOROETHENE	0.99 J	1.9 J	2.0 J	1.3
TRICHLOROETHENE	49	93	110	77
04GW80 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	N/A	10 U	10 U	N/A
CIS-1,2-DICHLOROETHENE	N/A	3.8 J	5.4 J	N/A
TETRACHLOROETHENE	N/A	10 U	1.8 J	N/A
TRICHLOROETHENE	N/A	93	100	N/A

04GW50	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	15 U	100 U	100 U	100 U
CIS-1,2-DICHLOROETHENE	7.4 J	140	150	130
TETRACHLOROETHENE	15 U	100 U	100 U	100 U
TRICHLOROETHENE	110	1100	1200	740

04GW81D	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	0.24 J	0.23 J	0.11 J
TETRACHLOROETHENE	0.74 J	1.1	0.93 J	0.49 J
TRICHLOROETHENE	0.51 J	0.87 J	0.74 J	0.44 J
04GW81D (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	1 U	N/A
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	N/A
TETRACHLOROETHENE	0.73 J	1	0.97 J	N/A
TRICHLOROETHENE	0.52 J	0.79 J	0.76 J	N/A

04GW81S	R1	R2	R3	R4
Volatiles (ug/L)				
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	0.49 J	0.67 J	0.46 J	0.49 J
TETRACHLOROETHENE	1.3	2.2	1.8	1.4
TRICHLOROETHENE	1.3	2.2 J	1.5	1.5

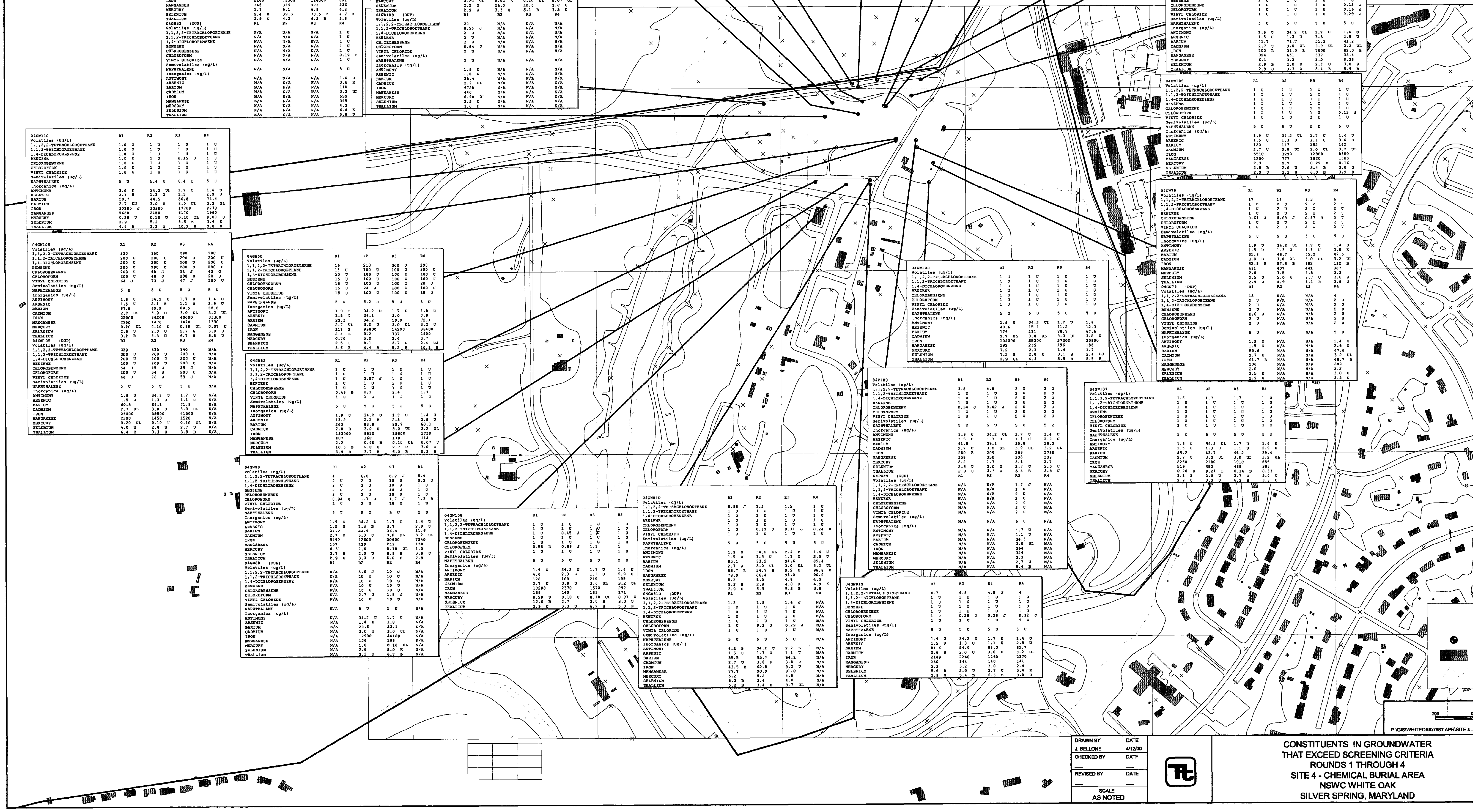
NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES	NO.	RELEASED FOR	BY	DATE

DRAWN BY J. BELLONE DATE 4/11/00
CHECKED BY DATE
COST/SCHEDULE-AREA
SCALE AS NOTED

Tetra Tech NUS, Inc.

CONSTITUENTS IN GROUNDWATER
THAT EXCEED SCREENING CRITERIA
ROUNDS 1 THROUGH 4
SITE 4 - CHEMICAL BURIAL AREA
NSWC WHITE OAK
SILVER SPRING, MARYLAND

CONTRACT NO. 7687
OWNER NO.
APPROVED BY
DATE 4/18/00
APPROVED BY
DATE
DRAWING NO. FIGURE 3-1
REV. 0



04GW12	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	2.1 B	1.4 U
ARSENIC	1.5 U	7.4	1.8	3.4 B
BARIUM	46.2	54.6	50.8	44.6
CADMIUM	2.7 UL	3.0 UL	3.0 UL	3.2 UL
IRON	1750	49000	7110	1500
MANGANESE	1730	1670	1880	1810
MERCURY	3.7	2.9	2.2	3.5
SELENIUM	4.0 B	11.5	4.8 K	3.0 U
THALLIUM	2.9 U	3.3 U	10.2 B	3.8 U

04GW11	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	N/A	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	N/A	1 U
1,4-DICHLOROBENZENE	1 U	0.6 J	N/A	1 U
BENZENE	1.2	2.5	N/A	1.5
CHLOROBENZENE	0.3 J	1.6	N/A	0.98 J
CHLOROFORM	1 U	1 U	N/A	1 U
VINYL CHLORIDE	1 U	1 U	N/A	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	5.8 U	9.5	N/A	5 U
Inorganics (ug/L)				
ANTIMONY	2.6 K	34.2 UL	N/A	1.4 U
ARSENIC	25.6	18.2	N/A	2.9 K
BARIUM	224	194	N/A	81.1
CADMIUM	6.7 L	5.0 L	N/A	3.2 UL
IRON	92900	92300	N/A	14200
MANGANESE	1420	971	N/A	1060
MERCURY	0.92	0.79	N/A	0.07 UL
SELENIUM	19.6 K	2.0 UL	N/A	3.0 U
THALLIUM	5.8 B	3.6 L	N/A	3.8 U

04GW101	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	N/A	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	N/A	1 U
1,4-DICHLOROBENZENE	1 U	1.3	N/A	1 U
BENZENE	0.64 J	2.1	N/A	1
CHLOROBENZENE	4.6	9.9	N/A	5.6
CHLOROFORM	1 U	1 U	N/A	1 U
VINYL CHLORIDE	1 U	0.33 J	N/A	0.24 J
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	N/A	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	N/A	1.4 U
ARSENIC	1.5 U	1.3 U	N/A	2.9 U
BARIUM	71.0	59.8	N/A	57.5
CADMIUM	2.7 U	3.0 UL	N/A	3.2 UL
IRON	20500	18900	N/A	21900
MANGANESE	2550	1720	N/A	1710
MERCURY	0.20 U	0.10 UL	N/A	0.07 UL
SELENIUM	2.8 B	2.0 U	N/A	3.0 U
THALLIUM	2.9 U	3.3 U	N/A	3.8 U
04GW101 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	N/A	1 U	N/A	N/A
1,1,2-TRICHLOROETHANE	N/A	1 U	N/A	N/A
1,4-DICHLOROBENZENE	N/A	1.4	N/A	N/A
BENZENE	N/A	2.2	N/A	N/A
CHLOROBENZENE	N/A	10	N/A	N/A
CHLOROFORM	N/A	1 U	N/A	N/A
VINYL CHLORIDE	N/A	0.36 J	N/A	N/A
Semivolatiles (ug/L)				
NAPHTHALENE	N/A	5 U	N/A	N/A
Inorganics (ug/L)				
ANTIMONY	N/A	34.2 UL	N/A	N/A
ARSENIC	N/A	1.3 U	N/A	N/A
BARIUM	N/A	60.8	N/A	N/A
CADMIUM	N/A	3.0 UL	N/A	N/A
IRON	N/A	18600	N/A	N/A
MANGANESE	N/A	1720	N/A	N/A
MERCURY	N/A	0.16 L	N/A	N/A
SELENIUM	N/A	2.0 U	N/A	N/A
THALLIUM	N/A	3.3 U	N/A	N/A

04GW10	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	N/A	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	N/A	1 U
1,4-DICHLOROBENZENE	1 U	1 U	N/A	1 U
BENZENE	1 U	1 U	N/A	1 U
CHLOROBENZENE	1 U	1 U	N/A	5.6
CHLOROFORM	1 U	1 U	N/A	1 U
VINYL CHLORIDE	1 U	1 U	N/A	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5.5 U	N/A	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	N/A	1.4 U
ARSENIC	110	6.7	N/A	3.3 K
BARIUM	554	69.0	N/A	47.2
CADMIUM	2.7 UL	3.0 UL	N/A	3.2 UL
IRON	329000	14300	N/A	2800
MANGANESE	15100	1020	N/A	227
MERCURY	7.0	0.64	N/A	0.07 UL
SELENIUM	75.0 K	2.4	N/A	3.0 U
THALLIUM	5.8 UL	3.5	N/A	3.8 U

04GW102	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1500 U	1500 U	N/A	N/A
1,1,2-TRICHLOROETHANE	1500 U	1500 U	N/A	N/A
1,4-DICHLOROBENZENE	1500 U	1500 U	N/A	N/A
BENZENE	1500 U	1500 U	N/A	N/A
CHLOROBENZENE	1500 U	1500 U	N/A	N/A
CHLOROFORM	1500 U	1500 U	N/A	N/A
VINYL CHLORIDE	1500 U	1500 U	N/A	N/A
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5.4 U	N/A	N/A
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	N/A	N/A
ARSENIC	1.5 U	1.3 U	N/A	N/A
BARIUM	25.1	22.7	N/A	N/A
CADMIUM	2.7 UL	3.0 UL	N/A	N/A
IRON	23200	21000	N/A	N/A
MANGANESE	817	901	N/A	N/A
MERCURY	0.20 UL	0.10 UL	N/A	N/A
SELENIUM	2.5 U	2.0 U	N/A	N/A
THALLIUM	3.3 B	3.3 U	N/A	N/A

04GW103	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	N/A	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	N/A	1 U
1,4-DICHLOROBENZENE	1 U	1 U	N/A	1 U
BENZENE	0.52 J	1 U	N/A	0.51 J
CHLOROBENZENE	1 U	1 U	N/A	0.13 J
CHLOROFORM	1 U	1 U	N/A	1 U
VINYL CHLORIDE	1 U	1 U	N/A	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	1.2 J	1.1 J	N/A	2.1 J
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	N/A	1.4 U
ARSENIC	1.5 U	1.3 U	N/A	2.9 K
BARIUM	69.5	68.4	N/A	59.5
CADMIUM	2.7 UL	3.0 UL	N/A	3.2 UL
IRON	13500	12500	N/A	15200
MANGANESE	897	933	N/A	977
MERCURY	0.20 UL	0.10 UL	N/A	0.07 UL
SELENIUM	3.0 B	2.0 U	N/A	3.0 U
THALLIUM	3.2 B	3.3 U	N/A	3.8 U

04GW48	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	10 U	1 U	1 U	10 U
1,1,2-TRICHLOROETHANE	10 U	1 U	0.15 J	10 U
1,4-DICHLOROBENZENE	10 U	0.49 J	0.49 J	10 U
BENZENE	10 U	1 U	1 U	10 U
CHLOROBENZENE	3.7 J	0.32 J	0.2 B	1.3 J
CHLOROFORM	10 U	0.2 J	0.27 J	10 U
VINYL CHLORIDE	10 U	1 U	1 U	10 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5.7 U	5.3 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U
ARSENIC	27.0	35.9	1.1 U	3.0 K
BARIUM	282	192	54.0	33.3
CADMIUM	7.3 L	4.2 L	3.0 UL	3.2 UL
IRON	84600	156000	1600	1110
MANGANESE	798	541	21.5	28.2
MERCURY	4.8	1.1	0.10 UL	0.07 UL
SELENIUM	44.8 K	33.7	2.7 U	3.0 U
THALLIUM	5.0 B	3.9 L	4.9 B	3.8 U

04GW13	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	2 U	2 U	2 U	1 U
1,1,2-TRICHLOROETHANE	0.73 J	0.55 J	0.46 J	1 U
1,4-DICHLOROBENZENE	2 U	2 U	2 U	0.64 J
BENZENE	0.96 J	0.83 J	0.99 B	1
CHLOROBENZENE	2.8	3.8	6.3	5.9
CHLOROFORM	2 U	2 U	2 U	1 U
VINYL CHLORIDE	4.5	5.5	5.0	4.2
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U
ARSENIC	1.5 U	1.3 U	1.1	2.9 U
BARIUM	42.3	42.3	51.5	36.2
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.2 UL
IRON	3640	4390	5350	3700
MANGANESE	1440	1550	1940	1500
MERCURY	0.92	0.91	0.16 L	0.78
SELENIUM	2.6 B	2.0 U	2.7 U	3.0 U
THALLIUM	2.9 U	3.3 U	5.6 B	3.8 U

04GW52	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	0.33 J	0.24 J	0.25 J	0.18 B
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U
ARSENIC	1.5 U	12.4	18.8	2.9 U
BARIUM	104	145	163	105
CADMIUM	2.7 UL	3.8 L	3.0 UL	3.2 UL
IRON	2160	79300	126000	601
MANGANESE	365	344	423	336
MERCURY	1.7	5.1	6.9	4.2
SELENIUM	9.4 B	39.3	70.5 K	4.7 K
THALLIUM	2.9 U	4.2	6.2 B	3.8
04GW52 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	N/A	N/A	N/A	1 U
1,1,2-TRICHLOROETHANE	N/A	N/A	N/A	1 U
1,4-DICHLOROBENZENE	N/A	N/A	N/A	1 U
BENZENE	N/A	N/A	N/A	1 U
CHLOROBENZENE	N/A	N/A	N/A	1 U
CHLOROFORM	N/A	N/A	N/A	0.19 B
VINYL CHLORIDE	N/A	N/A	N/A	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	N/A	N/A	N/A	5 U
Inorganics (ug/L)				
ANTIMONY	N/A	N/A	N/A	1.4 U
ARSENIC	N/A	N/A	N/A	3.6 K
BARIUM	N/A	N/A	N/A	110
CADMIUM	N/A	N/A	N/A	3.2 UL
IRON	N/A	N/A	N/A	599
MANGANESE	N/A	N/A	N/A	345
MERCURY	N/A	N/A	N/A	4.2
SELENIUM	N/A	N/A	N/A	6.4 K
THALLIUM	N/A	N/A	N/A	3.8 U

04GW109	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	28	74	65	26
1,1,2-TRICHLOROETHANE	0.58 J	3.3	5.5	1 J
1,4-DICHLOROBENZENE	1 U	2 U	5 U	5 U
BENZENE	1 U	2 U	5 U	5 U
CHLOROBENZENE	1 U	2 U	5 U	5 U
CHLOROFORM	0.86 J	0.62 J	5 U	5 U
VINYL CHLORIDE	1 U	0.42 J	5 U	5 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 U	1.7 U	1.4 U
ARSENIC	1.5 U	6.2 B	2.9	2.9 U
BARIUM	100	74.2	50.1	32.5
CADMIUM	2.7 UL	3.0 U	3.0 UL	3.2 UL
IRON	6770	27300	25300	16000
MANGANESE	465	550	903	743
MERCURY	0.20 UL	0.40 B	0.10 UL	0.07 UL
SELENIUM	2.5 U	24.0	12.6	3.0 U
THALLIUM	2.9 U	3.3 U	5.1 B	3.8 U
04GW109 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	29	N/A	N/A	N/A
1,1,2-TRICHLOROETHANE	0.55 J	N/A	N/A	N/A
1,4-DICHLOROBENZENE	2 U	N/A	N/A	N/A
BENZENE	2 U	N/A	N/A	N/A
CHLOROBENZENE	2 U	N/A	N/A	N/A
CHLOROFORM	0.84 J	N/A	N/A	N/A
VINYL CHLORIDE	2 U	N/A	N/A	N/A
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	N/A	N/A	N/A
Inorganics (ug/L)				
ANTIMONY	1.9 U	N/A	N/A	N/A
ARSENIC	1.5 U	N/A	N/A	N/A
BARIUM	38.4	N/A	N/A	N/A
CADMIUM	2.7 UL	N/A	N/A	N/A
IRON	6720	N/A	N/A	N/A
MANGANESE	440	N/A	N/A	N/A
MERCURY	0.20 UL	N/A	N/A	N/A
SELENIUM	2.5 U	N/A	N/A	N/A
THALLIUM	3.8 B	N/A	N/A	N/A

04GW110	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1.0 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1.0 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1.0 U	1 U	1 U	1 U
BENZENE	1.0 U	1 U	0.15 J	1 U
CHLOROBENZENE	1.0 U	1 U	1 U	1 U
CHLOROFORM	1.0 U	1 U	1 U	1 U
VINYL CHLORIDE	1.0 U	1 U	1 U	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5.4 U	6.4 U	5 U
Inorganics (ug/L)				
ANTIMONY	3.0 K	34.2 UL	1.7 U	1.4 U
ARSENIC	3.7 B	1.3 U	1.3	2.9 U
BARIUM	59.7	44.5	56.8	74.4
CADMIUM	2.7 UJ	3.0 U	3.0 UL	3.2 UL
IRON	30100 J	10900	17700	2770
MANGANESE	5680	2150	6170	1380
MERCURY	0.20 U	0.10 U	0.10 UL	0.07 U
SELENIUM	2.9	5.1	8.5 K	3.6 K
THALLIUM	4.4 B	3.3 U	10.2 B	3.8 U

04GW105	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	330	350	290	380
1,1,2-TRICHLOROETHANE	200 U	200 U	200 U	200 U
1,4-DICHLOROBENZENE	200 U	200 U	200 U	200 U
BENZENE	200 U	200 U	200 U	200 U
CHLOROBENZENE	200 U	48 J	33 J	43 J
CHLOROFORM	200 U	40 J	200 U	20 J
VINYL CHLORIDE	64 J	73 J	47 J	200 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 U	1.7 U	1.4 U
ARSENIC	1.5 U	2.1 B	1.1 U	2.9 U
BARIUM	57.8	65.9	69.5	62.6
CADMIUM	2.7 UL	3.0 U	3.0 UL	3.2 UL
IRON	25000	36200	40000	33300
MANGANESE	2200	1470	1470	1330
MERCURY	0.20 UL	0.10 U	0.10 UL	0.07 U
SELENIUM	2.5 U	2.0 U	2.7 U	3.0 U
THALLIUM	3.2 B	3.3 U	6.7 B	3.8 U
04GW105 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	330	330	340	N/A
1,1,2-TRICHLOROETHANE	200 U	200 U	200 U	N/A
1,4-DICHLOROBENZENE	200 U	200 U	200 U	N/A
BENZENE	200 U	200 U	200 U	N/A
CHLOROBENZENE	54 J	45 J	39 J	N/A
CHLOROFORM	200 U	34 J	200 U	N/A
VINYL CHLORIDE	66 J	76 J	59 J	N/A
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	N/A
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 U	1.7 U	N/A
ARSENIC	1.5 U	1.3 U	1.1 U	N/A
BARIUM	60.5	64.1	71.9	N/A
CADMIUM	2.7 UL	3.0 U	3.0 UL	N/A
IRON	26000	35500	41300	N/A
MANGANESE	2300	1450	1520	N/A
MERCURY	0.20 UL	0.10 U	0.10 UL	N/A
SELENIUM	4.0 B	2.0 U	2.7 U	N/A
THALLIUM	6.4 B	3.3 U	3.8 B	N/A

04GW50	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	16	210	300 J	290
1,1,2-TRICHLOROETHANE	15 U	100 U	100 U	100 U
1,4-DICHLOROBENZENE	15 U	100 U	100 U	100 U
BENZENE	15 U	100 U	100 U	100 U
CHLOROBENZENE	15 U	100 U	100 U	20 J
CHLOROFORM	15 U	24 J	100 U	100 U
VINYL CHLORIDE	15 U	100 U	100 U	18 J
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5.2 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 U	1.7 U	1.8 U
ARSENIC	1.5 U	24.1	3.0	7.8
BARIUM	29.3	94.2	59.8	72.1
CADMIUM	2.7 UL	3.0 U	3.0 UL	3.2 U
IRON	218 B	83800	14200	36400
MANGANESE	2.4 B	312	737	1400
MERCURY	0.70	5.0	2.4	3.7
SELENIUM	2.5 U	8.1	2.7 U	2.4 UJ
THALLIUM	3.6 B	4.4 B	5.2 B	10.1 B

04GW82	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	0.57 J	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	0.46 B	2.1	2.4	1.7
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 U	1.7 U	1.4 U
ARSENIC	13.2	2.1 B	2.5	2.9 U
BARIUM	263	88.8	99.7	60.3
CADMIUM	2.8 B	3.0 U	3.0 UL	3.2 UL
IRON	133000	8810	19600	1730
MANGANESE	407	160	178	114
MERCURY	2.2	0.40 B	0.10 UL	0.07 U
SELENIUM	10.5 B	2.0 U	2.7 U	3.0 U
THALLIUM	3.9 B	3.7 B	6.0 B	5.3 B

04GW80	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	4	6.6	8.2 J	5.9
1,1,2-TRICHLOROETHANE	2 U	2 U	10 U	0.2 J
1,4-DICHLOROBENZENE	2 U	2 U	10 U	1 U
BENZENE	2 U	2 U	10 U	1 U
CHLOROBENZENE	2 U	2 U	10 U	1 U
CHLOROFORM	0.94 B	1.7 J	1.7 J	1.3 B
VINYL CHLORIDE	2 U	2 U	10 U	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 U	1.7 U	1.4 U
ARSENIC	1.5 U	1.3 B	3.7	2.9 U
BARIUM	24.0	23.9	36.4	21.6
CADMIUM	2.7 U	3.0 U	3.0 UL	3.2 UL
IRON	5490	12600	50600	7540
MANGANESE	157	129	219	138
MERCURY	0.31	1.4	0.10 UL	1.0
SELENIUM	3.7 B	2.0 U	8.9 K	3.0 U
THALLIUM	2.9 U	3.3 U	5.0 B	7.9
04GW80 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	N/A	5.6 J	10 U	N/A
1,1,2-TRICHLOROETHANE	N/A	10 U	10 U	N/A
1,4-DICHLOROBENZENE	N/A	10 U	10 U	N/A
BENZENE	N/A	10 U	10 U	N/A
CHLOROBENZENE	N/A	10 U	10 U	N/A
CHLOROFORM	N/A	2.7 J	1.8 J	N/A
VINYL CHLORIDE	N/A	10 U	10 U	N/A
Semivolatiles (ug/L)				
NAPHTHALENE	N/A	5 U	5 U	N/A
Inorganics (ug/L)				
ANTIMONY	N/A	34.2 U	1.7 U	N/A
ARSENIC	N/A	1.4 B	1.8	N/A
BARIUM	N/A	23.5	33.1	N/A
CADMIUM	N/A	3.0 U	3.0 UL	N/A
IRON	N/A	12900	44100	N/A
MANGANESE	N/A	126	199	N/A
MERCURY	N/A	1.8	0.10 UL	N/A
SELENIUM	N/A	2.6	8.0 K	N/A
THALLIUM	N/A	3.3 U	6.7 B	N/A

04GW108	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	0.45 J	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	0.58 B	0.99 J	1.1	1
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 U	1.7 U	1.4 U
ARSENIC	4.6	2.3 B	1.1 U	2.9 U
BARIUM	176	169	210	195
CADMIUM	2.7 U	3.0 U	3.0 UL	3.2 UL
IRON	10200	2370	1570	292
MANGANESE	138	140	181	171
MERCURY	0.20 U	0.10 U	0.10 UL	0.07 U
SELENIUM	12.6 B	2.7	3.0 B	3.0 U
THALLIUM	2.9 U	3.3 U	6.2 B	5.3 B

04GW81D	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	0.98 J	1.1	1.5	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	0.32 J	0.31 J	0.24 B
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	2.4 B	1.4 U
ARSENIC	1.5 U	1.3 U	1.1 U	2.9 U
BARIUM	85.1	93.2	94.6	89.4
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.2 UL
IRON	55.7 B	54.7 B	9.2 U	98.8 B
MANGANESE	78.0	86.4	91.0	90.0
MERCURY	5.2	5.0	4.8	4.5
SELENIUM	5.2 B	2.8	4.0 K	4.9 K
THALLIUM	2.9 U	5.3	5.2 B	3.8
04GW81D (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1.2	1.3	1.4 J	N/A
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	N/A
1,4-DICHLOROBENZENE	1 U	1 U	1 U	N/A
BENZENE	1 U	1 U	1 U	N/A
CHLOROBENZENE	1 U	1 U	1 U	N/A
CHLOROFORM	1 U	0.3 J	0.29 J	N/A
VINYL CHLORIDE	1 U	1 U	1 U	N/A
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	N/A
Inorganics (ug/L)				
ANTIMONY	4.2 B	34.2 U	2.2 B	N/A
ARSENIC	1.5 U	1.3 U	1.1 U	N/A
BARIUM	85.5	93.7	94.1	N/A
CADMIUM	2.7 U	3.0 U	3.0 U	N/A
IRON	43.5 B	62.8	9.2 U	N/A
MANGANESE	77.7	90.9	91.0	N/A
MERCURY	5.2	5.2	4.8	N/A
SELENIUM	5.2 B	3.4	4.0	N/A
THALLIUM	5.2 B	3.4 B	3.7 UL	N/A

04GW81S	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	4.7	4.8	4.5 J	4
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	0.28 J	0.26 J	0.32 J
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 U	1.7 U	1.4 U
ARSENIC	1.5 U	1.3 U	1.1 U	2.9 U
BARIUM	84.6	84.9	83.3	81.7
CADMIUM	3.6 B	3.0 U	3.0 U	3.2 UL
IRON	2140	2260	1260	2370
MANGANESE	140	144	140	141
MERCURY	3.3	3.2	3.0	2.4
SELENIUM	5.6 B	2.0 U	2.7 U	3.4 K
THALLIUM	2.9 U	5.4 B	6.6 B	3.8 U

04GW100	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.8
ARSENIC	40.6	15.1	11.2	12.3
BARIUM	176	111	78.7	67.6
CADMIUM	2.7 UL	3.0 UL	3.0 UL	3.2 U
IRON	104000	55300	27200	30900
MANGANESE	292	235	196	186
MERCURY	7.2	2.3	1.4	1.7
SELENIUM	7.2 B	2.0 U	3.1 B	2.4 UJ
THALLIUM	2.9 UL	4.3	8.8 B	8.5 B

04PZ89	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	3.8	4.8	2 U	2 U
1,1,2-TRICHLOROETHANE	1 U	1 U	2 U	2 U
1,4-DICHLOROBENZENE	1 U	1 U	2 U	2 U
BENZENE	1 U	1 U	2 U	2 U
CHLOROBENZENE	0.34 J	0.42 J	2 U	2 U
CHLOROFORM	1 U	1 U	2 U	2 U
VINYL CHLORIDE	1 U	1 U	2 U	2 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U
ARSENIC	1.5 U	1.3 U	1.1 U	2.9 U
BARIUM	41.8	39.1	35.8	39.2
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.2 UL
IRON	280 B	209	269	1780
MANGANESE	358	330	338	309
MERCURY	2.2	1.7	3.1	2.7
SELENIUM	2.5 U	2.0 U	2.7 U	3.0 U
THALLIUM	2.9 U	3.3 U	5.4 B	3.8 U
04PZ89 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	N/A	N/A	1.7 J	N/A
1,1,2-TRICHLOROETHANE	N/A	N/A	2 U	N/A
1,4-DICHLOROBENZENE	N/A	N/A	2 U	N/A
BENZENE	N/A	N/A	2 U	N/A
CHLOROBENZENE	N/A	N/A	2 U	N/A
CHLOROFORM	N/A	N/A	2 U	N/A
VINYL CHLORIDE	N/A	N/A	2 U	N/A
Semivolatiles (ug/L)				
NAPHTHALENE	N/A	N/A	5 U	N/A
Inorganics (ug/L)				
ANTIMONY	N/A	N/A	1.7 U	N/A
ARSENIC	N/A	N/A	1.1 U	N/A
BARIUM	N/A	N/A	34.5	N/A
CADMIUM	N/A	N/A	3.0 UL	N/A
IRON	N/A	N/A	264	N/A
MANGANESE	N/A	N/A	324	N/A
MERCURY	N/A	N/A	3.3	N/A
SELENIUM	N/A	N/A	2.7 U	N/A
THALLIUM	N/A	N/A	5.4 B	N/A

04GW107	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1.6	1.7	1.7	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U
ARSENIC	1.5 U	1.3 U	1.1 U	2.9 U
BARIUM	45.2	43.7	46.2	39.4
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.2 UL
IRON	2260	2180	1910	656
MANGANESE	519	452	468	387
MERCURY	0.20 U	0.21 L	0.34 B	0.63
SELENIUM	3.1 B	2.0 U	2.7 U	3.0 U
THALLIUM	2.9 U	3.3 U	6.2 B	3.8 U

04GW49D	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U
ARSENIC	1.5 U	1.3 U	2.5	2.9 U
BARIUM	34.7	34.2	73.8	38.4
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.2 UL
IRON	2640	2350	7020	2090
MANGANESE	466	410	358	330
MERCURY	0.41	0.28 L	3.7	0.07 U
SELENIUM	2.5 U	2.0 U	7.4 K	3.0 U
THALLIUM	2.9 U	3.3 U	5.0 B	4.6 B

04GW15	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	45
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	0.41 J
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	0.13 J
CHLOROFORM	1 U	1 U	1 U	0.16 J
VINYL CHLORIDE	1 U	1 U	1 U	0.29 J
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U
ARSENIC	1.5 U	1.3 U	3.5	2.9 U
BARIUM	71.7	71.7	51.3	41.2
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.2 UL
IRON	102 B	34.3 B	7900	82.0 B
MANGANESE	324	651	637	33.4
MERCURY	6.1	3.2	1.2	0.25
SELENIUM	2.9 B	2.0 U	2.7 U	3.0 U
THALLIUM	2.9 U	3.3 U	5.4 B	5.9 B

04GW106	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	0.13 J
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U
ARSENIC	1.5 U	1.3 U	1.1 U	3.4 B
BARIUM	120	117	152	142
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.2 UL
IRON	5510	3290	12900	8800
MANGANESE	1250	777	1920	1500
MERCURY	2.3	2.7	0.22 B	0.16
SELENIUM	2.8 B	2.0 U	3.4 B	3.0 U
THALLIUM	2.9 U	3.3 U	6.0 B	3.9 B

04GW79	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	17	14	9.3	6
1,1,2-TRICHLOROETHANE	1 U	2 U	2 U	2 U
1,4-DICHLOROBENZENE	1 U	2 U	2 U	2 U
BENZENE	1 U	2 U	2 U	2 U
CHLOROBENZENE	0.61 J	0.63 J	0.47 B	2 U
CHLOROFORM	1 U	2 U	2 U	2 U
VINYL CHLORIDE	1 U	2 U	2 U	2 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	5 U	5 U	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U
ARSENIC	1.5 U	1.3 U	1.1 U	3.0 K
BARIUM	51.9	48.7	55.2	47.5
CADMIUM	3.0 B	3.0 UL	3.0 UL	3.2 UL
IRON	52.8 B	57.8 B	102	112 B
MANGANESE	491	437	441	387
MERCURY	2.0	1.5	4.5	3.2
SELENIUM	2.5 U	2.0 U	2.7 U	3.0 U
THALLIUM	2.9 U	4.9	5.1 B	3.8 U
04GW79 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	18	N/A	N/A	4
1,1,2-TRICHLOROETHANE	2 U	N/A	N/A	2 U
1,4-DICHLOROBENZENE	2 U	N/A	N/A	2 U
BENZENE	2 U	N/A	N/A	2 U
CHLOROBENZENE	0.6 J	N/A	N/A	2 U
CHLOROFORM	2 U	N/A	N/A	2 U
VINYL CHLORIDE	2 U	N/A	N/A	2 U
Semivolatiles (ug/L)				
NAPHTHALENE	5 U	N/A	N/A	5 U
Inorganics (ug/L)				
ANTIMONY	1.9 U	N/A	N/A	1.4 U
ARSENIC	1.5 U	N/A	N/A	2.9 U
BARIUM	53.6	N/A	N/A	47.6
CADMIUM	2.7 U	N/A	N/A	3.2 UL
IRON	61.7 B	N/A	N/A	69.7 B
MANGANESE	508	N/A	N/A	389
MERCURY	2.0	N/A	N/A	3.2
SELENIUM	2.5 U	N/A	N/A	3.0 U
THALLIUM	2.9 U	N/A	N/A	3.8 U

DRAWN BY	DATE
J. BELLONE	4/12/00
CHECKED BY	DATE
REVISED BY	DATE
SCALE AS NOTED	

CONSTITUENTS IN GROUNDWATER THAT EXCEED SCREENING CRITERIA ROUNDS 1 THROUGH 4
SITE 4 - CHEMICAL BURIAL AREA
NSWC WHITE OAK
SILVER SPRING, MARYLAND

CONTRACT NO.	
7687	
OWNER NO.	
APPROVED BY	DATE 4/12/00
DRAWING NO. FIGURE 3-2	REV. 0

07PZ42	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	0.16 J	0.69 J
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1.6	0.79 J	0.42 J	1 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ARSENIC	1.5 U	3.2 B	1.1 U	3.3 UL
MERCURY	5.5	6.9	7.2	4.0
THALLIUM	2.9 U	4.0 B	3.7 U	4.3 UJ
Explosives (ug/L)				
2,4,6-TRINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U
RDX	0.50 U	0.50 U	0.5 U	0.5 U
Miscellaneous (ug/L)				
PERCHLORATES	5 U	N/A	4 U	8 U

07GW08	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CHLOROFORM	0.58 J	0.45 J	0.95 J	0.27 B
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ARSENIC	1.5 U	2.5 B	1.1 U	3.3 U
MERCURY	0.20 U	0.10 UL	0.10 U	0.09
THALLIUM	2.9 U	3.3 U	3.7 U	4.3 UL
Explosives (ug/L)				
2,4,6-TRINITROTOLUENE	210	140	240	180
2-AMINO-4,6-DINITROTOLUENE	62	40	70	64
4-AMINO-2,6-DINITROTOLUENE	110	65	110	100
RDX	510	320	530	440
Miscellaneous (ug/L)				
PERCHLORATES	15.3	N/A	14	12 J
07GW08 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	N/A	1 U	1 U	N/A
1,1-DICHLOROETHENE	N/A	1 U	1 U	N/A
1,2-DICHLOROETHANE	N/A	1 U	1 U	N/A
CHLOROFORM	N/A	0.43 J	0.83 J	N/A
CIS-1,2-DICHLOROETHENE	N/A	1 U	1 U	N/A
TRICHLOROETHENE	N/A	1 U	1 U	N/A
VINYL CHLORIDE	N/A	1 U	1 U	N/A
Inorganics (ug/L)				
ARSENIC	N/A	1.7 B	1.1 U	N/A
MERCURY	N/A	0.10 UL	0.10 U	N/A
THALLIUM	N/A	3.4 B	3.7 U	N/A
Explosives (ug/L)				
2,4,6-TRINITROTOLUENE	N/A	150	210	N/A
2-AMINO-4,6-DINITROTOLUENE	N/A	42	58	N/A
4-AMINO-2,6-DINITROTOLUENE	N/A	69	89	N/A
RDX	N/A	330	470	N/A
Miscellaneous (ug/L)				
PERCHLORATES	N/A	N/A	16	N/A

07GW102	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	39	22	18	15
1,1-DICHLOROETHENE	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	10 U	10 U	10 U	10 U
CHLOROFORM	10 U	10 U	10 U	10 U
CIS-1,2-DICHLOROETHENE	27	16	12	17
TRICHLOROETHENE	240	150 J	100	150
VINYL CHLORIDE	10 U	10 U	10 U	10 U
Inorganics (ug/L)				
ARSENIC	1.9	2.5 B	3.4 B	3.3 U
MERCURY	1.2	0.29 L	1.4	1.0
THALLIUM	3.2	3.3 U	3.7 U	4.3 UL
Explosives (ug/L)				
2,4,6-TRINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U
RDX	1.6	0.50 U	0.5 U	0.5 U
Miscellaneous (ug/L)				
PERCHLORATES	5 UL	N/A	4 U	8 U
07GW102 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	37	N/A	N/A	N/A
1,1-DICHLOROETHENE	10 U	N/A	N/A	N/A
1,2-DICHLOROETHANE	10 U	N/A	N/A	N/A
CHLOROFORM	10 U	N/A	N/A	N/A
CIS-1,2-DICHLOROETHENE	21	N/A	N/A	N/A
TRICHLOROETHENE	160	N/A	N/A	N/A
VINYL CHLORIDE	10 U	N/A	N/A	N/A
Inorganics (ug/L)				
ARSENIC	1.5 U	N/A	N/A	N/A
MERCURY	1.0	N/A	N/A	N/A
THALLIUM	2.9 U	N/A	N/A	N/A
Explosives (ug/L)				
2,4,6-TRINITROTOLUENE	0.20 U	N/A	N/A	N/A
2-AMINO-4,6-DINITROTOLUENE	0.20 U	N/A	N/A	N/A
4-AMINO-2,6-DINITROTOLUENE	0.20 U	N/A	N/A	N/A
RDX	1.4	N/A	N/A	N/A
Miscellaneous (ug/L)				
PERCHLORATES	5 UL	N/A	N/A	N/A

07GW101	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CHLOROFORM	0.32 J	0.22 J	0.33 J	0.3 B
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	0.28 J	1 U	1 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ARSENIC	1.5 U	2.1 B	1.1 U	3.3 U
MERCURY	0.20 U	0.10 UL	0.10 K	0.07
THALLIUM	2.9 U	3.3 U	3.7 U	4.4 B
Explosives (ug/L)				
2,4,6-TRINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.22
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.35	0.26	0.39
4-AMINO-2,6-DINITROTOLUENE	0.20	0.39	0.28	0.37
RDX	2.7	4.9	3.5	4.9
Miscellaneous (ug/L)				
PERCHLORATES	5.19	N/A	9.4	8 U

07GW105	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	0.33 J	0.36 J	0.33 B
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ARSENIC	1.5 U	1.3 U	1.1 U	3.3 U
MERCURY	0.20 U	0.10 UL	0.10 U	0.05 U
THALLIUM	5.6	4.4 B	3.7 U	4.3 UL
Explosives (ug/L)				
2,4,6-TRINITROTOLUENE	2.2	3.6	4	7.1
2-AMINO-4,6-DINITROTOLUENE	1.4	2.3	2.7	4.3
4-AMINO-2,6-DINITROTOLUENE	1.4	2.3	2.7	4.4
RDX	20	29	33	50
Miscellaneous (ug/L)				
PERCHLORATES	9.85 L	N/A	8	9 J

07GW43	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	6.5	100 U	100 U	50 U
1,1-DICHLOROETHENE	1.5	100 U	100 U	50 U
1,2-DICHLOROETHANE	0.93 J	100 U	100 U	50 U
CHLOROFORM	1.2	100 U	100 U	50 U
CIS-1,2-DICHLOROETHENE	39	40 J	44 J	19 J
TRICHLOROETHENE	370	710 J	710	390
VINYL CHLORIDE	0.36 J	100 U	100 U	50 U
Inorganics (ug/L)				
ARSENIC	1.5 U	4.4 B	1.1 U	3.3 UL
MERCURY	0.55	0.96	0.46	0.26
THALLIUM	2.9 U	4.4 B	3.7 U	4.3 UJ
Explosives (ug/L)				
2,4,6-TRINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U
RDX	0.50 U	0.50 U	0.5 U	0.5 U
Miscellaneous (ug/L)				
PERCHLORATES	5 U	N/A	4 U	8 U

07GW103	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CHLOROFORM	0.4 J	0.51 J	20	21
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	0.12 J
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ARSENIC	1.5 U	2.2 B	1.1 U	3.3 U
MERCURY	0.81	0.20 L	0.15 K	0.07
THALLIUM	2.9 U	4.0 B	3.7 U	4.3 UL
Explosives (ug/L)				
2,4,6-TRINITROTOLUENE	34	1.8	4.1	0.34
2-AMINO-4,6-DINITROTOLUENE	6.6	0.50	1.8	0.2 U
4-AMINO-2,6-DINITROTOLUENE	14	0.80	2.5	0.23
RDX	44	2.1	7.4	0.5 U
Miscellaneous (ug/L)				
PERCHLORATES	28.4 L	N/A	4 U	8 U
07GW103 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	N/A	N/A	N/A	1 U
1,1-DICHLOROETHENE	N/A	N/A	N/A	1 U
1,2-DICHLOROETHANE	N/A	N/A	N/A	1 U
CHLOROFORM	N/A	N/A	N/A	20
CIS-1,2-DICHLOROETHENE	N/A	N/A	N/A	1 U
TRICHLOROETHENE	N/A	N/A	N/A	0.18 J
VINYL CHLORIDE	N/A	N/A	N/A	1 U
Inorganics (ug/L)				
ARSENIC	N/A	N/A	N/A	3.3 U
MERCURY	N/A	N/A	N/A	0.07
THALLIUM	N/A	N/A	N/A	4.3 UL
Explosives (ug/L)				
2,4,6-TRINITROTOLUENE	N/A	N/A	N/A	0.37
2-AMINO-4,6-DINITROTOLUENE	N/A	N/A	N/A	0.2 U
4-AMINO-2,6-DINITROTOLUENE	N/A	N/A	N/A	0.22
RDX	N/A	N/A	N/A	0.5 U
Miscellaneous (ug/L)				
PERCHLORATES	N/A	N/A	N/A	29 J

07GW41	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	77	37	27	9.5 J
1,1-DICHLOROETHENE	0.3 J	20 U	20 U	10 U
1,2-DICHLOROETHANE	1.8	20 U	20 U	10 U
CHLOROFORM	0.47 J	20 U	20 U	10 U
CIS-1,2-DICHLOROETHENE	43	29	21	9.3 J
TRICHLOROETHENE	370	280 J	180	85
VINYL CHLORIDE	1.6	20 U	20 U	10 U
Inorganics (ug/L)				
ARSENIC	1.5 U	2.3 B	1.1 U	3.3 U
MERCURY	3.7	1.1	0.84	1.1
THALLIUM	3.8	3.8 B	3.7 U	4.3 UL
Explosives (ug/L)				
2,4,6-TRINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U
RDX	0.50 U	0.50 U	0.5 U	0.5 U
Miscellaneous (ug/L)				
PERCHLORATES	5.27 L	N/A	8 U	8 U
07GW41 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	69	N/A	25	N/A
1,1-DICHLOROETHENE	20 U	N/A	20 U	N/A
1,2-DICHLOROETHANE	20 U	N/A	20 U	N/A
CHLOROFORM	20 U	N/A	20 U	N/A
CIS-1,2-DICHLOROETHENE	38	N/A	21	N/A
TRICHLOROETHENE	350	N/A	170	N/A
VINYL CHLORIDE	20 U	N/A	20 U	N/A
Inorganics (ug/L)				
ARSENIC	2.8	N/A	1.1 U	N/A
MERCURY	3.8	N/A	0.69	N/A
THALLIUM	2.9 U	N/A	3.7 U	N/A
Explosives (ug/L)				
2,4,6-TRINITROTOLUENE	0.20 U	N/A	0.2 U	N/A
2-AMINO-4,6-DINITROTOLUENE	0.20 U	N/A	0.2 U	N/A
4-AMINO-2,6-DINITROTOLUENE	0.20 U	N/A	0.2 U	N/A
RDX	0.50 U	N/A	0.5 U	N/A
Miscellaneous (ug/L)				
PERCHLORATES	5 UL	N/A	4 U	N/A

07GW104	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U
CHLOROFORM	1.8	1.5	0.83 J	0.62 B
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	0.11 J
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ARSENIC	1.5 U	2.6 B	1.1 U	3.3 U
MERCURY	0.20 U	0.10 UL	0.10 U	0.09
THALLIUM	2.9 U	3.4 B	3.7 U	4.3 UL
Explosives (ug/L)				
2,4,6-TRINITROTOLUENE	110	150	300	410
2-AMINO-4,6-DINITROTOLUENE	38	48	94	120
4-AMINO-2,6-DINITROTOLUENE	66	84	150	210
RDX	270	310	590	770
Miscellaneous (ug/L)				
PERCHLORATES	11.5	N/A	11	4 U

LEGEND

MONITORING WELL LOCATION

BUILDINGS

WATERWAYS/STREAMS

200 0 200 Feet

P:\GIS\WHITEOAK\7697.APR\SITE 7 - ALL ROUNDS DATA LAYOUT JCB 4/11/00

Tetra Tech NUS, Inc.

CONSTITUENTS IN GROUNDWATER THAT EXCEED SCREENING CRITERIA ROUNDS 1 THROUGH 4

SITE 7 - ORDNANCE BURN AREA

NSWC WHITE OAK

SILVER SPRING, MARYLAND

DRAWN BY J. BELLONE DATE 4/11/00

CHECKED BY DATE

SCALE AS NOTED

CONTRACT NO. 7697

OWNER NO.

APPROVED BY DATE 4/18/00

APPROVED BY DATE

DRAWING NO. FIGURE 4

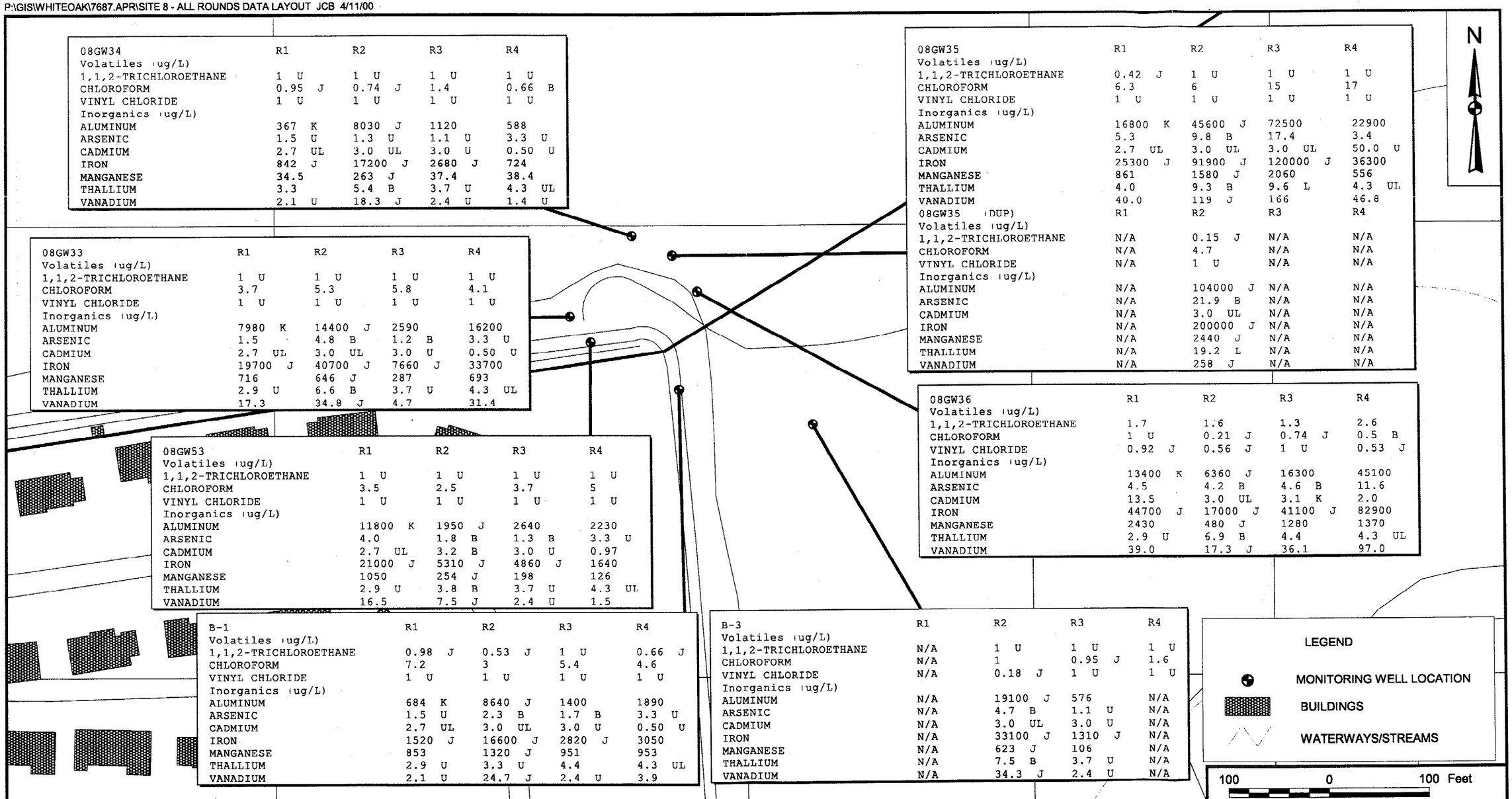
REV. 0

NO. DATE REVISIONS BY CHKD APPD

NO. RELEASED FOR BY DATE

REFERENCES

P:\GIS\WHITEOAK\7687.APR\SITE 8 - ALL ROUNDS DATA LAYOUT JCB 4/11/00



08GW34	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U
CHLOROFORM	0.95 J	0.74 J	1.4	0.66 B
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ALUMINUM	367 K	8030 J	1120	588
ARSENIC	1.5 U	1.3 U	1.1 U	3.3 U
CADMIUM	2.7 UL	3.0 UL	3.0 U	0.50 U
IRON	842 J	17200 J	2680 J	724
MANGANESE	34.5	263 J	37.4	38.4
THALLIUM	3.3	5.4 B	3.7 U	4.3 UL
VANADIUM	2.1 U	18.3 J	2.4 U	1.4 U

08GW35	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2-TRICHLOROETHANE	0.42 J	1 U	1 U	1 U
CHLOROFORM	6.3	6	15	17
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ALUMINUM	16800 K	45600 J	72500	22900
ARSENIC	5.3	9.8 B	17.4	3.4
CADMIUM	2.7 UL	3.0 UL	3.0 UL	50.0 U
IRON	25300 J	91900 J	120000 J	36300
MANGANESE	861	1580 J	2060	556
THALLIUM	4.0	9.3 B	9.6 L	4.3 UL
VANADIUM	40.0	119 J	166	46.8
08GW35 (DUP)	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2-TRICHLOROETHANE	N/A	0.15 J	N/A	N/A
CHLOROFORM	N/A	4.7	N/A	N/A
VINYL CHLORIDE	N/A	1 U	N/A	N/A
Inorganics (ug/L)				
ALUMINUM	N/A	104000 J	N/A	N/A
ARSENIC	N/A	21.9 B	N/A	N/A
CADMIUM	N/A	3.0 UL	N/A	N/A
IRON	N/A	200000 J	N/A	N/A
MANGANESE	N/A	2440 J	N/A	N/A
THALLIUM	N/A	19.2 L	N/A	N/A
VANADIUM	N/A	258 J	N/A	N/A

08GW33	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U
CHLOROFORM	3.7	5.3	5.8	4.1
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ALUMINUM	7980 K	14400 J	2590	16200
ARSENIC	1.5	4.8 B	1.2 B	3.3 U
CADMIUM	2.7 UL	3.0 UL	3.0 U	0.50 U
IRON	19700 J	40700 J	7660 J	33700
MANGANESE	716	646 J	287	693
THALLIUM	2.9 U	6.6 B	3.7 U	4.3 UL
VANADIUM	17.3	34.8 J	4.7	31.4

08GW36	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2-TRICHLOROETHANE	1.7	1.6	1.3	2.6
CHLOROFORM	1 U	0.21 J	0.74 J	0.5 B
VINYL CHLORIDE	0.92 J	0.56 J	1 U	0.53 J
Inorganics (ug/L)				
ALUMINUM	13400 K	6360 J	16300	45100
ARSENIC	4.5	4.2 B	4.6 B	11.6
CADMIUM	13.5	3.0 UL	3.1 K	2.0
IRON	44700 J	17000 J	41100 J	82900
MANGANESE	2430	480 J	1280	1370
THALLIUM	2.9 U	6.9 B	4.4	4.3 UL
VANADIUM	39.0	17.3 J	36.1	97.0

08GW53	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U
CHLOROFORM	3.5	2.5	3.7	5
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ALUMINUM	11800 K	1950 J	2640	2230
ARSENIC	4.0	1.8 B	1.3 B	3.3 U
CADMIUM	2.7 UL	3.2 B	3.0 U	0.97
IRON	21000 J	5310 J	4860 J	1640
MANGANESE	1050	254 J	198	126
THALLIUM	2.9 U	3.8 B	3.7 U	4.3 UL
VANADIUM	16.5	7.5 J	2.4 U	1.5

B-1	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2-TRICHLOROETHANE	0.98 J	0.53 J	1 U	0.66 J
CHLOROFORM	7.2	3	5.4	4.6
VINYL CHLORIDE	1 U	1 U	1 U	1 U
Inorganics (ug/L)				
ALUMINUM	684 K	8640 J	1400	1890
ARSENIC	1.5 U	2.3 B	1.7 B	3.3 U
CADMIUM	2.7 UL	3.0 UL	3.0 U	0.50 U
IRON	1520 J	16600 J	2820 J	3050
MANGANESE	853	1320 J	951	953
THALLIUM	2.9 U	3.3 U	4.4	4.3 UL
VANADIUM	2.1 U	24.7 J	2.4 U	3.9

B-3	R1	R2	R3	R4
Volatiles (ug/L)				
1,1,2-TRICHLOROETHANE	N/A	1 U	1 U	1 U
CHLOROFORM	N/A	1	0.95 J	1.6
VINYL CHLORIDE	N/A	0.18 J	1 U	1 U
Inorganics (ug/L)				
ALUMINUM	N/A	19100 J	576	N/A
ARSENIC	N/A	4.7 B	1.1 U	N/A
CADMIUM	N/A	3.0 UL	3.0 U	N/A
IRON	N/A	33100 J	1310 J	N/A
MANGANESE	N/A	623 J	106	N/A
THALLIUM	N/A	7.5 B	3.7 U	N/A
VANADIUM	N/A	34.3 J	2.4 U	N/A

NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY J. BELLONE DATE 4/11/00
CHECKED BY DATE
COST/SCHEDULE-AREA
SCALE AS NOTED

Tetra Tech NUS, Inc.

CONSTITUENTS IN GROUNDWATER
THAT EXCEED SCREENING CRITERIA
ROUNDS 1 THROUGH 4
SITE 8 - ABANDONED CHEMICAL DISPOSAL PIT
NSWC WHITE OAK
SILVER SPRING, MARYLAND

CONTRACT NUMBER 7687
OWNER NUMBER —
APPROVED BY
DATE 4/18/00
APPROVED BY —
DATE —
DRAWING NO. FIGURE 5
REV 0

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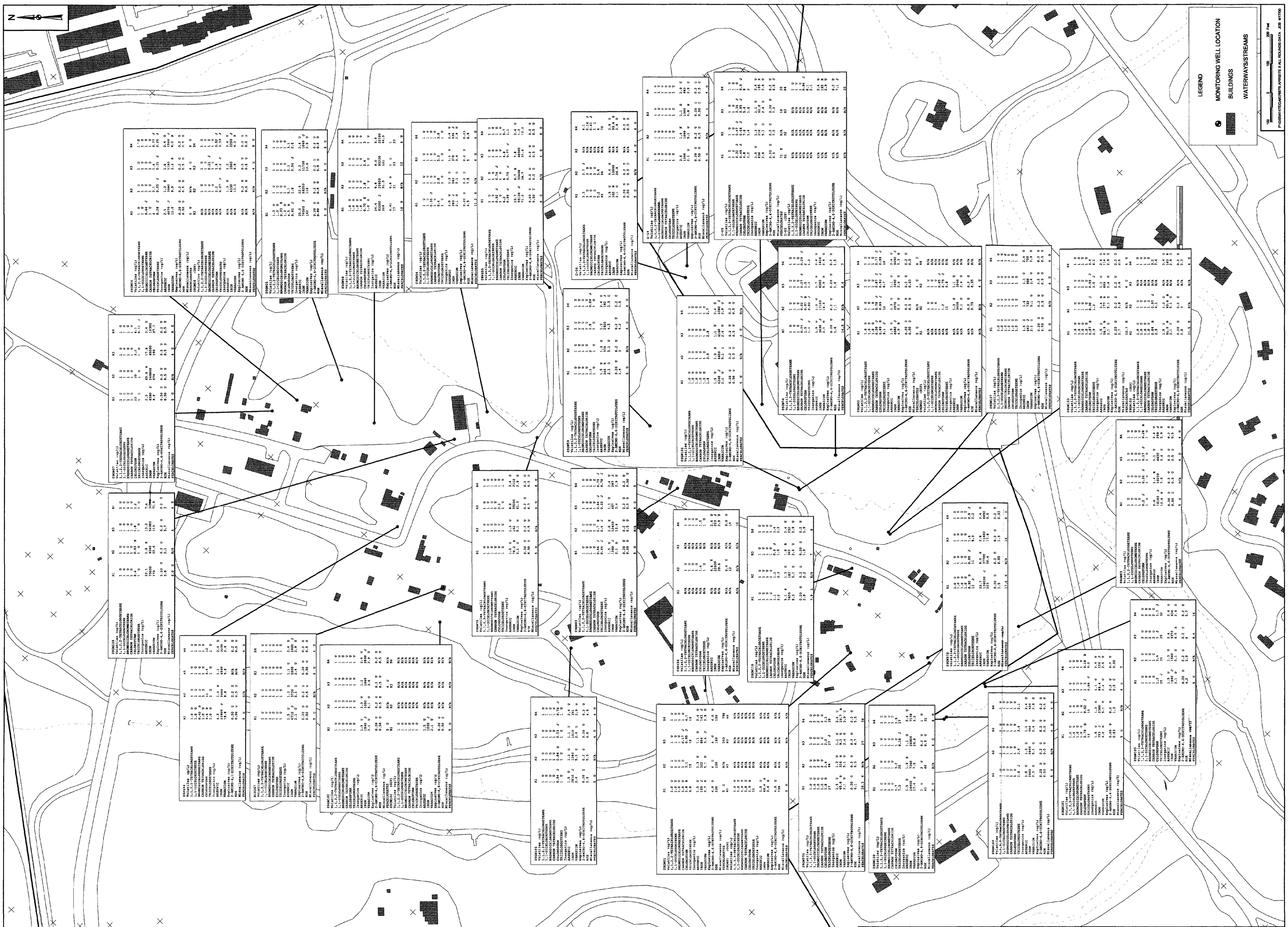

DRAWN BY	DATE
J. BELLONE	4/11/00
CHECKED BY	DATE
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REVISED BY	DATE
—	—
SCALE	
AS NOTED	

CONSTITUENTS IN GROUNDWATER
THAT EXCEED SCREENING CRITERIA
ROUNDS 1 THROUGH 4
SITE 9 - INDUSTRIAL WASTEWATER DISPOSAL AREA 300
NSWC WHITE OAK
SILVER SPRING, MARYLAND

CONTRACT NO.	
7687	
OWNER NO.	
—	
APPROVED BY	DATE
JJ	4/17/00
DRAWING NO.	REV.
FIGURE 6	0

SECTION D

WITHIN-WELL COMPARISON OF ANALYTICAL DATA FOR ROUNDS 1, 2, 3 AND 4

SECTION D-1

WITHIN-WELL COMPARISON OF ANALYTICAL DATA FOR ROUNDS 1, 2, 3 AND 4

SITE 2

SECTION D-2

WITHIN-WELL COMPARISON OF ANALYTICAL DATA FOR ROUNDS 1, 2, 3 AND 4

SITE 3

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW17
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	03GW17	03GW17	03GW17	03GW17	03GW17	03GW17	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
ROUND:	1	2	2	3	3	4			
SAMPLE I.D.	3GW170001	3GW170002	3GW170002-D	3GW170003	3GW170003-D	3GW170004			
SAMPLE DATE:	2/10/99	4/20/99	4/20/99	7/27/99	7/27/99	10/21/99			
ASSOCIATED DUPLICATE:		3GW170002-D	3GW170002	3GW170003-D	3GW170003				
VOLATILES (µg/L)									
1,1-DICHLOROETHANE	1 U	1 U	0.2 J	1 U	1 U	1 U	N/A	80	N
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	70	19	N
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	600	55	N
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	1.4 L	5 UR	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	N/A	0.85	N
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1 U	1 U	1 U	1 U	1 U	1 U	80	0.15	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	0.28 J	0.26 J	0.2 J	70	6.1	N
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	5	1.1	C
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	1 UJ	1 U	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	2	0.019	C
SEMIVOLATILES (µg/L)									
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 UJ	N/A	370	N
EXPLOSIVES (µg/L)									
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.23	0.2 U	N/A	2.2	C
2,4-DINITROTOLUENE	0.20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	3.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)									
TOTAL PETROLEUM HYDROCARBONS						1100 U	N/A	N/A	
INORGANICS (µg/L)									
ALUMINUM	72.4 B	51.2 B	56.0 B	90.6 B	145 B	167 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	34.2 UL	1.7 U	1.7 U	2.2 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.3 U	1.1 U	1.1 U	2.3 U	50	0.045	C
BARIUM	87.3	64.6	64.8	87.0	89.1	97.9	2000	260	N
BERYLLIUM	0.20 B	0.22 B	0.22 B	0.26 B	0.26 B	0.14 B	4	7.3	N
CALCIUM	27700	20700	20700	25200	26000	27600	N/A	N/A	
CHROMIUM	2.3 U	3.0 U	4.0 K	2.4 U	2.4 U	1.8 B	100	11	N
COBALT	7.2	15.2	15.0	5.4	8.7	7.3	N/A	220	N
COPPER	2.4 U	5.0 K	6.4 K	3.8 B	5.5 B	0.70 U	1300	150	N
CYANIDE	2.7 U	1.1 U	1.1 U	1.4 U	1.4 U	1.3 B	200	73	N
IRON	7950	6830	6820	8360	8610	7840 J	300	1100	N
LEAD	1.0 U	0.92 U	0.92 U	1.0 U	1.0 U	1.1 U	15	15	
MAGNESIUM	19900	15500	15500	18300	18900	18300	N/A	N/A	
MANGANESE	1550	1230	1220	1350	1400	1530	50	73	N
MERCURY	0.26	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	2	1.1 (a)	N
NICKEL	47.1	49.5	56.4	43.9	52.9	49.0	100	73	N
POTASSIUM	3140	3050	3310	3640	3920	4290	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW17
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW17 1 3GW170001 2/10/99	03GW17 2 3GW170002 4/20/99 3GW170002-D	03GW17 2 3GW170002-D 4/20/99 3GW170002	03GW17 3 3GW170003 7/27/99 3GW170003-D	03GW17 3 3GW170003-D 7/27/99 3GW170003	03GW17 4 3GW170004 10/21/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
SELENIUM	2.5 U	2.0 U	2.0 U	2.7 U	2.7 U	3.5 U	50	18	N
SILVER	2.8 U	3.3 U	3.3 U	2.2 U	2.2 U	0.60 U	100	18	N
SODIUM	13500	8300	8890	15400	16000	13500	N/A	N/A	
THALLIUM	2.9 U	3.3 U	3.3 U	3.7 U	3.7 U	2.7 U	2	0.26	N
VANADIUM	2.1 U	5.1 U	5.1 U	2.4 U	2.4 U	0.60 U	N/A	26	N
ZINC	17.3 B	8.8	23.5	18.7	13.8	4.0 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)									
AMMONIA						420	N/A	21	N
DISSOLVED OXYGEN	2870						N/A	N/A	
PH	6.3						N/A	N/A	
SALINITY %	0.01						N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.39						N/A	N/A	
TEMPERATURE C	13.8						N/A	N/A	
TURBIDITY NTU	8.8						N/A	N/A	

(a) - RBC [illegible] lue shown is based on Mercuric chloride.
N/A - N [illegible] lable
**All RB[illegible] ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW18
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW18 1 3GW180001 2/10/99 3GW180001-D	03GW18 1 3GW180001-D 2/10/99 3GW180001	03GW18 2 3GW180002 4/21/99	03GW18 3 3GW180003 7/27/99	03GW18 4 3GW180004 10/26/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)								
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	N/A	80	N
1;2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	70	19	N
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	600	55	N
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	5 UR	1.8 L	5 UR	2.9 B	1.7 B	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	N/A	0.85	N
CHLOROBENZENE	1 U	1 U	1 U	0.38 J	1 U	100	11	N
CHLOROFORM	1 U	1 U	1 U	1 U	1 U	80	0.15	C
CIS-1,2-DICHLOROETHENE	0.71 J	0.72 J	1 U	2.9	2.7	70	6.1	N
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	5	1.1	C
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	0.24 J	0.21 J	100	12	N
TRICHLOROETHENE	0.26 J	0.27 J	1 U	0.81 J	0.87 J	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	0.39 J	0.44 J	2	0.019	C
SEMIVOLATILES (µg/L)								
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	N/A	370	N
EXPLOSIVES (µg/L)								
2,4,6-TRINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,4-DINITROTOLUENE	0.23	0.22	0.2 U	0.2 U	0.2 U	N/A	7.3	N
HMX	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	4 U	4 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)								
TOTAL PETROLEUM HYDROCARBONS					1000 U	N/A	N/A	
INORGANICS (µg/L)								
ALUMINUM	161 B	123 B	890	912	51.9 B	50-200	3700	N
ANTIMONY	1.9 U	1.9 U	34.2 UL	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.5 U	1.3 U	1.1 U	2.4 U	50	0.045	C
BARIUM	50.0	48.7	46.4	54.6	38.5	2000	260	N
BERYLLIUM	0.10 U	0.10 U	0.33 B	0.18 B	0.10 U	4	7.3	N
CALCIUM	14800	14300	13000	15000	14000	N/A	N/A	
CHROMIUM	2.3 U	2.3 U	3.6 K	3.2 K	2.3 U	100	11	N
COBALT	10.2	10.9	10.2	15.1	15.0	N/A	220	N
COPPER	2.4 U	2.4 U	7.8 K	6.2	3.2 L	1300	150	N
CYANIDE	2.7 U	2.7 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	10400	10300	9480	13100	7110	300	1100	N
LEAD	1.0 U	1.0 U	0.92 U	1.0 UL	1.3 U	15	15	
MAGNESIUM	11200	10900	10700	10900	10200	N/A	N/A	
MANGANESE	1380	1340	1220	1600	1800	50	73	N

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW18
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW18 1 3GW180001 2/10/99 3GW180001-D	03GW18 1 3GW180001-D 2/10/99 3GW180001	03GW18 2 3GW180002 4/21/99	03GW18 3 3GW180003 7/27/99	03GW18 4 3GW180004 10/26/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
MERCURY	0.20 U	0.20 U	0.10 U	0.10 UL	0.07 U	2	1.1 (a)	N
NICKEL	40.8	44.1	61.3	41.8	25.6	100	73	N
POTASSIUM	2370	1970	2660	2930	2640	N/A	N/A	
SELENIUM	2.5 U	2.5 U	2.0 U	2.7 U	2.4 UJ	50	18	N
SILVER	2.8 U	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	11400	11200	8870	10100	10300	N/A	N/A	
THALLIUM	2.9 U	3.8 B	4.1 B	5.5 B	5.9 B	2	0.26	N
VANADIUM	2.1 U	2.1 U	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	12.4 B	13.4 B	25.9	22.9	13.0 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)								
AMMONIA					200	N/A	21	N
DISSOLVED OXYGEN	2660					N/A	N/A	
PH	6.13					N/A	N/A	
SALINITY %	0.01					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.268					N/A	N/A	
TEMPERATURE C	14.4					N/A	N/A	
TURBIDITY NTU	14					N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - N[illegible]ilable
**All RB[illegible]ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW19
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW19 1 3GW190001 2/11/99	03GW19 2 3GW190002 4/20/99	03GW19 3 3GW190003 7/30/99	03GW19 4 3GW190004 10/22/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1-DICHLOROETHANE	1 U	3 U	3 U	2 U	N/A	80	N
1,2,4-TRICHLOROBENZENE	1 U	3 U	3.9	1 U	70	19	N
1,2-DICHLOROBENZENE	1 U	3 U	3 U	0.2 J	600	55	N
1,3-DICHLOROBENZENE	1.1	3 U	1.4 J	1 J	N/A	0.55	N
1,4-DICHLOROBENZENE	2.6	3 U	3.6 B	3 B	75	0.47	C
ACETONE	3.1 L	15 UR	15 UR	10 UR	N/A	61	N
BENZENE	1.8	0.99 J	1.9 B	2	5	0.36	C
BROMOMETHANE	1 U	3 U	3 U	2 U	N/A	0.85	N
CHLOROBENZENE	29	16	48	35	100	11	N
CHLOROFORM	1 U	3 U	3 U	2 U	80	0.15	C
CIS-1,2-DICHLOROETHENE	23	26	25	24	70	6.1	N
TETRACHLOROETHENE	1 U	3 U	3 U	2 U	5	1.1	C
TRANS-1,2-DICHLOROETHENE	5.3	2.2 J	5.4	4	100	12	N
TRICHLOROETHENE	1.2 J	4.4	1.1 J	0.6 J	5	1.6	C
VINYL CHLORIDE	3.3	2 J	4.3	4	2	0.019	C
SEMIVOLATILES (µg/L)							
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,4-DINITROTOLUENE	0.20	0.2 U	0.2 U	0.2 U	N/A	7.3	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				600	N/A	N/A	
INORGANICS (µg/L)							
ALUMINUM	971	5560	103	76.8 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	2.2 U	6	1.5	N
ARSENIC	1.5 U	1.8	1.1 U	2.3 U	50	0.045	C
BARIUM	149	177	166	161	2000	260	N
BERYLLIUM	0.58 B	1.2 B	0.31 B	0.35 B	4	7.3	N
CALCIUM	22700	24600	25400	23300	N/A	N/A	
CHROMIUM	29.5	37.6	7.0 K	5.8	100	11	N
COBALT	26.9	18.7	7.6	3.2 B	N/A	220	N
COPPER	5.8	20.7 K	3.1	2.8	1300	150	N
CYANIDE	2.7 U	1.1 U	1.4 U	3.8 B	200	73	N
IRON	13600	21600	14900	24000 J	300	1100	N
LEAD	1.0 U	3.6	1.0 UL	1.1 U	15	15	
MAGNESIUM	9900	11700	11300	10100	N/A	N/A	
MANGANESE	547	598	738	924	50	73	N

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW19
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW19 1 3GW190001 2/11/99	03GW19 2 3GW190002 4/20/99	03GW19 3 3GW190003 7/30/99	03GW19 4 3GW190004 10/22/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
MERCURY	0.20 U	0.10 U	0.10 UL	0.20 U	2	1.1 (a)	N
NICKEL	30.1	38.2	13.8	7.6 B	100	73	N
POTASSIUM	3040	4370	4230	3770	N/A	N/A	
SELENIUM	2.5 U	2.4 B	2.7 U	3.5 U	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	0.60 U	100	18	N
SODIUM	17500	16800	22200	21300	N/A	N/A	
THALLIUM	2.9 U	3.6 B	4.5 B	3.3 B	2	0.26	N
VANADIUM	2.1 U	10.8	2.4	0.60 U	N/A	26	N
ZINC	53.1 B	22.4	12.6	0.50 U	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				400	N/A	21	N
DISSOLVED OXYGEN	2170				N/A	N/A	
PH	6.41				N/A	N/A	
SALINITY %	0.01				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.452				N/A	N/A	
TEMPERATURE C	15.1				N/A	N/A	
TURBIDITY NTU	231				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - N[illegible]lable
**All RB[illegible]ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW47
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW47 1 3GW470001 2/11/99	03GW47 2 3GW470002 4/22/99	03GW47 3 3GW470003 7/26/99	03GW47 4 3GW470004 10/21/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	70	19	N
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	600	55	N
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	1.5 L	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1 U	1 U	1 U	1 U	80	0.15	C
CIS-1,2-DICHLOROETHENE	1 U	0.22 J	0.57 J	0.2 J	70	6.1	N
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	0.2 J	0.48 J	0.1 J	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
SEMIVOLATILES (µg/L)							
DI-N-BUTYL PHTHALATE	5.5	5 U	5 U	5 UJ	N/A	370	N
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.34 U	0.2 U	N/A	2.2	C
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.34 U	0.2 U	N/A	7.3	N
HMX	0.50 U	0.5 U	0.86 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.86 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				200	N/A	N/A	
INORGANICS (µg/L)							
ALUMINUM	39700	21900	9040	2010	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.9	2.2 U	6	1.5	N
ARSENIC	7.3	3.9	1.2	2.3 U	50	0.045	C
BARIUM	688	154	129	73.7	2000	260	N
BERYLLIUM	6.2	1.6 B	0.69 B	0.47 B	4	7.3	N
CALCIUM	41700	8890	10900	7530	N/A	N/A	
CHROMIUM	73.2	26.1	17.4	2.4 B	100	11	N
COBALT	37.4	10.3	9.3	4.8 B	N/A	220	N
COPPER	115	38.5 K	18.7	14.0	1300	150	N
CYANIDE	2.7 U	1.1 U	1.4 U	22.7 B	200	73	N
IRON	91500	36700	21800	4230 J	300	1100	N
LEAD	32.2	10.9	6.7	2.5	15	15	
MAGNESIUM	21100	5530	6730	2700	N/A	N/A	
MANGANESE	2070	436	1190	621	50	73	N

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW47
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW47 1 3GW470001 2/11/99	03GW47 2 3GW470002 4/22/99	03GW47 3 3GW470003 7/26/99	03GW47 4 3GW470004 10/21/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
MERCURY	0.39	0.10 U	0.13	0.20 U	2	1.1 (a)	N
NICKEL	55.4	20.3	9.2	6.2 B	100	73	N
POTASSIUM	9700	3690	4070	2040	N/A	N/A	
SELENIUM	2.5 U	2.0 U	2.7 U	3.5 U	50	18	N
SILVER	2.8 U	4.4 K	2.2 U	0.60 U	100	18	N
SODIUM	28000	23000	29000	16400	N/A	N/A	
THALLIUM	6.3 B	5.5 B	3.7 U	2.7 U	2	0.26	N
VANADIUM	83.3	25.6	14.2	3.4 B	N/A	26	N
ZINC	226	66.9	37.4	24.5 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	4800				N/A	N/A	
PH	5.2				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.178				N/A	N/A	
TEMPERATURE C	9.4				N/A	N/A	
TURBIDITY NTU	800				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - N[illegible]ilable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW77
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW77 1 3GW770001 2/11/99	03GW77 2 3GW770002 4/21/99	03GW77 3 3GW770003 7/26/99	03GW77 4 3GW770004 10/20/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	70	19	N
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	600	55	N
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	1.7 L	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1 U	1 U	1 U	1 U	80	0.15	C
CIS-1,2-DICHLOROETHENE	0.86 J	0.7 J	1.5	1	70	6.1	N
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	0.32 J	0.1 J	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	0.08 J	2	0.019	C
SEMIVOLATILES (µg/L)							
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,4-DINITROTOLUENE	0.23	0.2 U	0.2 U	0.2 U	N/A	7.3	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
INORGANICS (µg/L)							
ALUMINUM	9990	42800	14100	2970	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	2.2 U	6	1.5	N
ARSENIC	2.6	6.0	3.2	2.3 U	50	0.045	C
BARIUM	168	278	142	79.7	2000	260	N
BERYLLIUM	1.1 B	2.5 B	0.94 B	0.13 B	4	7.3	N
CALCIUM	11100	10700	7970	6890	N/A	N/A	
CHROMIUM	25.3	102	40.5	9.5 B	100	11	N
COBALT	13.4	35.0	39.3	5.3 B	N/A	220	N
COPPER	17.5	50.6	25.0	3.8	1300	150	N
CYANIDE	2.7 U	1.1 U	1.4 U	1.3 U	200	73	N
IRON	36200	89800	44700	22300	300	1100	N
LEAD	10.6	19.2	5.6 K	3.2 K	15	15	
MAGNESIUM	8270	17100	9110	4370	N/A	N/A	
MANGANESE	1110	1400	1130	980	50	73	N

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW77
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW77 1 3GW770001 2/11/99	03GW77 2 3GW770002 4/21/99	03GW77 3 3GW770003 7/26/99	03GW77 4 3GW770004 10/20/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
MERCURY	0.20 U	0.13	0.10 U	0.20 UL	2	1.1 (a)	N
NICKEL	25.1	63.5	29.6	9.0	100	73	N
POTASSIUM	5510	14000	6970	3430	N/A	N/A	
SELENIUM	2.5 U	3.8 B	2.7 U	3.5 U	50	18	N
SILVER	2.8 U	3.6 K	2.2 U	0.60 U	100	18	N
SODIUM	30500	37200	37500	33200	N/A	N/A	
THALLIUM	2.9 U	7.7 B	3.8	3.5 B	2	0.26	N
VANADIUM	26.0	84.4	27.2	7.5	N/A	26	N
ZINC	58.7 B	150	75.2	16.8 K	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				570	N/A	21	N
DISSOLVED OXYGEN	2540				N/A	N/A	
PH	5.18				N/A	N/A	
SALINITY %	0.01				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.356				N/A	N/A	
TEMPERATURE C	9				N/A	N/A	
TURBIDITY NTU	310				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW78D
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW78D 1 3GW78D0001 2/21/99	03GW78D 2 3GW78D0002 5/4/99	03GW78D 3 3GW78D0003 7/28/99	03GW78D 4 3GW78D0004 10/26/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1-DICHLOROETHANE	1.0 U	1 U	1 U	1 U	N/A	80	N
1,2,4-TRICHLOROBENZENE	1.0 U	1 U	1 U	1 U	70	19	N
1,2-DICHLOROBENZENE	1.0 U	1 U	1 U	1 U	600	55	N
1,3-DICHLOROBENZENE	1.0 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1.0 U	1 U	1 U	1 U	75	0.47	C
ACETONE	1.4 B	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1.0 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1.0 U	1 U	1 U	1 U	N/A	0.85	N
CHLOROBENZENE	1.0 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1.0 U	1 U	1 U	1 U	80	0.15	C
CIS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	70	6.1	N
TETRACHLOROETHENE	0.20 J	1 U	1 U	1 U	5	1.1	C
TRANS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1.0 U	1 U	1 U	1 U	5	1.6	C
VINYL CHLORIDE	1.0 U	1 U	1 U	1 U	2	0.019	C
SEMIVOLATILES (µg/L)							
DI-N-BUTYL PHTHALATE	5.0 U	5 U	5 U	5 U	N/A	370	N
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.21	0.2 U	N/A	2.2	C
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
INORGANICS (µg/L)							
ALUMINUM	13.6 B	16.6 U	29.4 U	16.2 U	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.4	1.1 U	2.4 U	50	0.045	C
BARIUM	97.6	97.5	104	98.8	2000	260	N
BERYLLIUM	0.13 B	0.07 U	0.11 U	0.10 U	4	7.3	N
CALCIUM	12900	14000	14200	14400	N/A	N/A	
CHROMIUM	2.3 U	3.0 U	2.4 U	2.3 U	100	11	N
COBALT	3.3 U	2.5 U	3.8 U	2.6 U	N/A	220	N
COPPER	2.4 U	2.4 U	1.4 U	0.96 UL	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	655 J	886	777	1060	300	1100	N
LEAD	1.0 U	0.92 U	1.0 UL	1.3 U	15	15	
MAGNESIUM	6280	6430	6820	6690	N/A	N/A	
MANGANESE	81.8	83.3	87.7	90.5	50	73	N

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW78D
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW78D 1 3GW78D0001 2/21/99	03GW78D 2 3GW78D0002 5/4/99	03GW78D 3 3GW78D0003 7/28/99	03GW78D 4 3GW78D0004 10/26/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
MERCURY	0.20 U	0.10 U	0.10 UL	0.07 U	2	1.1 (a)	N
NICKEL	7.5 U	5.9 U	8.8 U	6.6 U	100	73	N
POTASSIUM	3620	3840	3700	3170	N/A	N/A	
SELENIUM	2.5 U	2.0 U	2.7 U	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	12100	12800	13500	12600	N/A	N/A	
THALLIUM	3.0 B	3.3 U	4.2 B	5.0 UL	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	2.0 B	1.9 U	2.1	8.3 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	225000				N/A	N/A	
PH	7.45				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.172				N/A	N/A	
TEMPERATURE C	10.2				N/A	N/A	
TURBIDITY NTU	2.1				N/A	N/A	

(a) - RB[illegible] alue shown is based on Mercuric chloride.
N/A - N[illegible] ilable
**All RB[illegible] values have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW78S
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW78S 1 3GW78S0001 2/10/99	03GW78S 2 3GW78S0002 4/21/99	03GW78S 3 3GW78S0003 7/27/99	03GW78S 4 3GW78S0004 10/25/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	70	19	N
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	600	55	N
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1 U	1 U	1 U	0.16 J	80	0.15	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
SEMIVOLATILES (µg/L)							
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
INORGANICS (µg/L)							
ALUMINUM	126 B	1910	221 B	154 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1 U	2.4 U	50	0.045	C
BARIUM	46.6	48.1	39.0	39.2	2000	260	N
BERYLLIUM	0.10 U	0.29 B	0.20 B	0.10 U	4	7.3	N
CALCIUM	6400	5630	4680	5400	N/A	N/A	
CHROMIUM	3.7 B	5.8 K	5.5	6.4	100	11	N
COBALT	3.3 U	7.8	4.8	3.1	N/A	220	N
COPPER	2.4 U	10.2 K	4.1 B	3.5 L	1300	150	N
CYANIDE	2.7 U	1.1	1.4 U	1.2 U	200	73	N
IRON	314 B	2770	445	561	300	1100	N
LEAD	1.0 U	0.92 U	1.0 U	1.3 U	15	15	
MAGNESIUM	4070	4120	3190	3320	N/A	N/A	
MANGANESE	98.0	88.3	99.4	170	50	73	N

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW78S
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW78S 1 3GW78S0001 2/10/99	03GW78S 2 3GW78S0002 4/21/99	03GW78S 3 3GW78S0003 7/27/99	03GW78S 4 3GW78S0004 10/25/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
MERCURY	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	7.5 U	5.9 U	8.8 U	12.9	100	73	N
POTASSIUM	1110	2080	1630	1540	N/A	N/A	
SELENIUM	2.5 U	2.0 U	2.7 U	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	11800	10100	10200	11000	N/A	N/A	
THALLIUM	3.1 B	6.9 B	3.7 U	5.0 U	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	10.2 B	12.3	41.8	12.2 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	4250				N/A	N/A	
PH	5.38				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.136				N/A	N/A	
TEMPERATURE C	17				N/A	N/A	
TURBIDITY NTU	6.56				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - N[illegible]ilable
**All RB[illegible]alues have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW102
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW102 1 3GW1020001 2/11/99	03GW102 2 3GW1020002 4/20/99	03GW102 3 3GW1020003 7/29/99	03GW102 4 3GW1020004 10/24/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1-DICHLOROETHANE	1 U	2 U	5 U	30 U	N/A	80	N
1,2,4-TRICHLOROBENZENE	1 U	2 U	5 U	30 U	70	19	N
1,2-DICHLOROBENZENE	1 U	2 U	5 U	30 U	600	55	N
1,3-DICHLOROBENZENE	1 U	2 U	5 U	30 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	2 U	5 U	30 U	75	0.47	C
ACETONE	2.2 L	10 UR	25 UR	150 UR	N/A	61	N
BENZENE	1 U	2 U	5 U	30 U	5	0.36	C
BROMOMETHANE	1 U	2 U	5 U	30 U	N/A	0.85	N
CHLOROBENZENE	1 U	2 U	5 U	30 U	100	11	N
CHLOROFORM	1 U	2 U	5 U	30 U	80	0.15	C
CIS-1,2-DICHLOROETHENE	35	10	41	520	70	6.1	N
TETRACHLOROETHENE	1 U	2 U	5 U	30 U	5	1.1	C
TRANS-1,2-DICHLOROETHENE	0.49 J	2 U	5 U	6.2 J	100	12	N
TRICHLOROETHENE	21 J	4.5 J	24	250	5	1.6	C
VINYL CHLORIDE	1.5	0.37 J	1.5 J	19 J	2	0.019	C
SEMIVOLATILES (µg/L)							
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
INORGANICS (µg/L)							
ALUMINUM	130 B	44.7 B	29.4 U	16.2 U	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1 U	2.4 U	50	0.045	C
BARIUM	139	153	147	136	2000	260	N
BERYLLIUM	0.20 B	0.30 B	0.11 U	0.10 U	4	7.3	N
CALCIUM	33600	26600	25200	23800	N/A	N/A	
CHROMIUM	2.5 B	3.0 U	2.4 U	2.3 U	100	11	N
COBALT	3.3 U	2.5 U	3.8 U	2.6 U	N/A	220	N
COPPER	2.8	2.5 K	1.4 U	0.96 UL	1300	150	N
CYANIDE	2.7 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	4330	6390	6180	5600	300	1100	N
LEAD	1.0 U	0.92 U	1.0 UL	1.3 U	15	15	
MAGNESIUM	9860	11500	10900	10300	N/A	N/A	
MANGANESE	218	288	268	241	50	73	N

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW102
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW102 1 3GW1020001 2/11/99	03GW102 2 3GW1020002 4/20/99	03GW102 3 3GW1020003 7/29/99	03GW102 4 3GW1020004 10/24/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
MERCURY	0.20 U	0.10 U	0.10 UL	0.07 U	2	1.1 (a)	N
NICKEL	7.5 U	5.9 U	8.8 U	6.6 U	100	73	N
POTASSIUM	9470	4620	4020	3490	N/A	N/A	
SELENIUM	2.5 U	2.0 U	2.7 U	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	12000	9960	10300	10000	N/A	N/A	
THALLIUM	2.9 U	4.8 B	3.7 U	5.0 UL	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	20.0 B	6.8	7.3	3.2 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	1720				N/A	N/A	
PH	6.79				N/A	N/A	
SALINITY %	0.01				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.301				N/A	N/A	
TEMPERATURE C	13				N/A	N/A	
TURBIDITY NTU	6.77				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - N[illegible]ilable
**All RE[illegible]lues have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW104
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW104 1 3GW1040001 2/10/99	03GW104 2 3GW1040002 4/22/99	03GW104 3 3GW1040003 7/27/99	03GW104 4 3GW1040004 10/23/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	70	19	N
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	600	55	N
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	0.15 J	75	0.47	C
ACETONE	1.8 L	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1 U	1 U	1 U	1 U	80	0.15	C
CIS-1,2-DICHLOROETHENE	3.7	2.4	3.5	3.2	70	6.1	N
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	6.3 J	3.3	6.5	4.5	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
SEMIVOLATILES (µg/L)							
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.95 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
INORGANICS (µg/L)							
ALUMINUM	164 B	130	744	89.3 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1 U	2.4 U	50	0.045	C
BARIUM	141	157	159	137	2000	260	N
BERYLLIUM	0.10 U	0.22 B	0.11 U	0.10 U	4	7.3	N
CALCIUM	19100	19200	19700	18400	N/A	N/A	
CHROMIUM	9.8 B	5.7 K	50.1	2.3 U	100	11	N
COBALT	24.6	8.9	16.2	4.2	N/A	220	N
COPPER	2.4 U	14.2 K	8.8	5.3 L	1300	150	N
CYANIDE	2.7 U	1.1 U	1.7	1.2 U	200	73	N
IRON	4190	4600	6130	3760	300	1100	N
LEAD	1.0 U	0.92 U	1.0 UL	1.3 U	15	15	
MAGNESIUM	7720	8460	8400	7800	N/A	N/A	
MANGANESE	237	271	273	340	50	73	N

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW104
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW104 1 3GW1040001 2/10/99	03GW104 2 3GW1040002 4/22/99	03GW104 3 3GW1040003 7/27/99	03GW104 4 3GW1040004 10/23/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
MERCURY	0.20 U	0.10 U	0.10 UL	0.07 U	2	1.1 (a)	N
NICKEL	12.9	9.4	39.9	6.6 U	100	73	N
POTASSIUM	3010	3580	3500	4820	N/A	N/A	
SELENIUM	2.5 U	2.0 U	2.7 U	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	9120	9230	9250 K	9570	N/A	N/A	
THALLIUM	2.9 U	5.0 B	4.4 B	8.0 B	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	6.0 B	21.6	14.3	18.9 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	3970				N/A	N/A	
PH	6.75				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.209				N/A	N/A	
TEMPERATURE C	12.3				N/A	N/A	
TURBIDITY NTU	21				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - N[illegible]ilable
**All RB[illegible]alues have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW107
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW107 1 3GW1070001 2/11/99	03GW107 2 3GW1070002 4/28/99	03GW107 3 3GW1070003 7/27/99	03GW107 4 3GW1070004 10/21/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	70	19	N
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	600	55	N
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	0.75 J	1 U	0.2 B	75	0.47	C
ACETONE	2.1 L	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	0.17 J	0.32 B	0.1 J	5	0.36	C
BROMOMETHANE	1 U	0.25 J	1 U	1 U	N/A	0.85	N
CHLOROBENZENE	0.65 J	0.42 J	0.21 B	0.4 J	100	11	N
CHLOROFORM	1 U	1 U	1 U	1 U	80	0.15	C
CIS-1,2-DICHLOROETHENE	3.4	1.4	8.9	1	70	6.1	N
TETRACHLOROETHENE	0.62 J	0.29 J	0.36 J	0.3 J	5	1.1	C
TRANS-1,2-DICHLOROETHENE	1 U	1 U	0.42 J	1 U	100	12	N
TRICHLOROETHENE	0.59 J	0.36 J	0.88 J	0.2 J	5	1.6	C
VINYL CHLORIDE	0.25 J	0.18 J	1.3	1 U	2	0.019	C
SEMIVOLATILES (µg/L)							
DI-N-BUTYL PHTHALATE	5 U	5 U	5.4 U	5 U	N/A	370	N
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
HMX	0.75	0.89	1	1	N/A	180	N
RDX	0.81	1.7	1	0.95	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1400 U	N/A	N/A	
INORGANICS (µg/L)							
ALUMINUM	2780	7920	70400	1450	50-200	3700	N
ANTIMONY	1.9 U	34.2 U	1.7 UL	2.2 U	6	1.5	N
ARSENIC	1.5 U	2.3 B	11.9	2.3 U	50	0.045	C
BARIUM	52.9	57.4	328	72.3	2000	260	N
BERYLLIUM	0.18 B	0.36 B	3.8 B	0.08 B	4	7.3	N
CALCIUM	11000	10800	16400	6610	N/A	N/A	
CHROMIUM	3.4 B	12.4	108	3.0 B	100	11	N
COBALT	23.4	20.9	79.1	19.1	N/A	220	N
COPPER	10.6	19.7	169	4.4	1300	150	N
CYANIDE	2.7 U	1.5 B	1.4 U	3.4 B	200	73	N
IRON	9000	18300	105000	3540 J	300	1100	N
LEAD	2.6	5.7	49.3	2.3	15	15	
MAGNESIUM	6260	6360	18200	5000	N/A	N/A	
MANGANESE	3460	2810	4730	2230	50	73	N

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #03GW107
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D. SAMPLE DATE: ASSOCIATED DUPLICATE:	03GW107 1 3GW1070001 2/11/99	03GW107 2 3GW1070002 4/28/99	03GW107 3 3GW1070003 7/27/99	03GW107 4 3GW1070004 10/21/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
MERCURY	0.20 U	0.14 B	0.27	0.20 U	2	1.1 (a)	N
NICKEL	19.1	26.1	106	23.8	100	73	N
POTASSIUM	9650	8920	20700	4310	N/A	N/A	
SELENIUM	2.5 U	2.0 U	5.8 K	3.5 U	50	18	N
SILVER	2.8 U	3.3 U	5.5 K	0.60 U	100	18	N
SODIUM	26700	24400	34200	21300	N/A	N/A	
THALLIUM	3.6 B	3.3 U	3.9 L	5.3 B	2	0.26	N
VANADIUM	3.9	15.8	141	3.2 B	N/A	26	N
ZINC	34.5 B	46.3	278	22.2 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				400	N/A	21	N
DISSOLVED OXYGEN					N/A	N/A	
PH					N/A	N/A	
SALINITY %					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM					N/A	N/A	
TEMPERATURE C					N/A	N/A	
TURBIDITY NTU					N/A	N/A	

(a) - RP[illegible]lue shown is based on Mercuric chloride.
N/A - N[illegible]ilable
**All RB[illegible] values have been divided by a factor of 10 for non-carcinogens (N).

SECTION D-3

WITHIN-WELL COMPARISON OF ANALYTICAL DATA FOR ROUNDS 1, 2, 3 AND 4

SITE 4

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW10
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW10 1 4GW100001 2/18/99	04GW10 2 4GW100002 4/26/99	04GW10 4 4GW100004 11/10/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)						
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	0.28 J	1 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	75	0.47	C
ACETONE	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	5.6	100	11	N
CHLOROETHANE	0.74 J	1	1 UJ	N/A	3.6	C
CHLOROFORM	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1 U	0.26 J	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	0.6 J	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	0.46 J	1 U	3.4	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)						
2-METHYLNAPHTHALENE	5 U	5.5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5.5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	2.9 B	5 U	6	4.8	C
FLUORENE	5 U	5.5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5.5 U	5 U	N/A	0.65	N
PHENOL	5 U	5.5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)						
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)						
TPH-DIESEL			100 UJ	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW10
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW10 1 4GW100001 2/18/99	04GW10 2 4GW100002 4/26/99	04GW10 4 4GW100004 11/10/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)						
ALUMINUM	223000	8550	1280	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.4 U	6	1.5	N
ARSENIC	110	6.7	3.3 K	50	0.045	C
BARIUM	554	69.0	47.2	2000	260	N
BERYLLIUM	4.7	0.23 B	0.10 U	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	119000	90200	89800	N/A	N/A	
CHROMIUM	1260	19.7	3.2	100	11	N
COBALT	102 K	3.4	2.6 U	N/A	220	N
COPPER	265	13.4	0.96 U	1300	150	N
CYANIDE	10.0 U	1.1 U	1.2 U	200	73	N
IRON	329000	14300	2800	300	1100	N
LEAD	146	6.1	2.0 K	15	15	
MAGNESIUM	23200	18800	17800	N/A	N/A	
MANGANESE	15100	1020	227	50	73	N
MERCURY	7.0	0.64	0.07 UL	2	1.1 (a)	N
NICKEL	591	6.1 B	6.6 U	100	73	N
POTASSIUM	10500	4110	3560	N/A	N/A	
SELENIUM	75.0 K	2.4	3.0 U	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	100	18	N
SODIUM	13800	14400	9820	N/A	N/A	
THALLIUM	5.8 UL	3.5	3.8 U	2	0.26	N
VANADIUM	707	30.2	5.3	N/A	26	N
ZINC	492	16.3	7.7 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)						
AMMONIA			300	N/A	21	N
DISSOLVED OXYGEN	4990			N/A	N/A	
PERCHLORATES	5 U		10 U	N/A	N/A	
PH	6.33			N/A	N/A	
SALINITY %	0.02			N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.649			N/A	N/A	
TEMPERATURE C	17.4			N/A	N/A	
TURBIDITY NTU	999			N/A	N/A	

(a) - RF ıe shown is based on Mercuric chloride.
N/A - N. ıable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW11
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW11 1 4GW110001 2/11/99	04GW11 2 4GW110002 4/26/99	04GW11 4 4GW110004 11/11/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)						
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	0.6 J	1 U	75	0.47	C
ACETONE	6 B	4.5 J	3.1 B	N/A	61	N
BENZENE	1.2	2.5	1.5	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	0.3 J	1.6	0.98 J	100	11	N
CHLOROETHANE	1 U	1 U	1 UJ	N/A	3.6	C
CHLOROFORM	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	0.51 J	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	0.53 J	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	2	1 U	10000	1200	N
SEMIVOLATILES (µg/L)						
2-METHYLNAPHTHALENE	5.8 U	5.5 U	5 U	N/A	12	N
ACENAPHTHENE	1.1 J	11	2.6 J	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5.8 U	4 B	5 U	6	4.8	C
FLUORENE	5.8 U	2.4 J	5 U	N/A	24	N
NAPHTHALENE	5.8 U	9.5	5 U	N/A	0.65	N
PHENOL	5.8 U	5.5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)						
2,4-DINITROTOLUENE	0.20 U	0.48	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.41	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.27 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	1 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.63 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)						
TPH-DIESEL			620 J	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW11
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW11 1 4GW110001 2/11/99	04GW11 2 4GW110002 4/26/99	04GW11 4 4GW110004 11/11/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)						
ALUMINUM	26000	18700	1170	50-200	3700	N
ANTIMONY	2.6 K	34.2 UL	1.4 U	6	1.5	N
ARSENIC	25.6	18.2	2.9 K	50	0.045	C
BARIUM	224	194	81.1	2000	260	N
BERYLLIUM	0.68 B	0.72 B	0.10 U	4	7.3	N
CADMIUM	6.7 L	5.0 L	3.2 UL	5	3.7	N
CALCIUM	114000	104000	73800	N/A	N/A	
CHROMIUM	55.2	53.8	3.6	100	11	N
COBALT	21.1 B	18.6 K	2.8	N/A	220	N
COPPER	122	126	22.1	1300	150	N
CYANIDE	10.0 U	1.3 B	1.2 U	200	73	N
IRON	92900	92300	14200	300	1100	N
LEAD	93.8	109	13.8	15	15	
MAGNESIUM	20000	18500	17400	N/A	N/A	
MANGANESE	1420	971	1060	50	73	N
MERCURY	0.92	0.79	0.07 UL	2	1.1 (a)	N
NICKEL	49.0	48.1	6.6 U	100	73	N
POTASSIUM	6290	4520	4260	N/A	N/A	
SELENIUM	19.6 K	2.0 UL	3.0 U	50	18	N
SILVER	3.7 B	3.3 U	2.2 U	100	18	N
SODIUM	8290	7340	6950	N/A	N/A	
THALLIUM	5.8 B	3.6 L	3.8 U	2	0.26	N
VANADIUM	87.2	81.0	2.9	N/A	26	N
ZINC	830	694	103	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)						
AMMONIA			630	N/A	21	N
DISSOLVED OXYGEN	1640			N/A	N/A	
PERCHLORATES	5 U		10 U	N/A	N/A	
PH	6.5			N/A	N/A	
SALINITY %	0.07			N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.758			N/A	N/A	
TEMPERATURE C	13.5			N/A	N/A	
TURBIDITY NTU	999			N/A	N/A	

(a) - RB[illegible]e shown is based on Mercuric chloride.
N/A - N[illegible]iable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW12
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW12 1 4GW120001 2/16/99	04GW12 2 4GW120002 4/26/99	04GW12 3 4GW120003 7/30/99	04GW12 4 4GW120004 11/5/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	1.4 B	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	0.11 J	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROETHANE	1 U	1 U	1 U	1 U	N/A	3.6	C
CHLOROFORM	1 U	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	1 J	3.9 B	3 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				250	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW12
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW12 1 4GW120001 2/16/99	04GW12 2 4GW120002 4/26/99	04GW12 3 4GW120003 7/30/99	04GW12 4 4GW120004 11/5/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	496	5930	1110	273 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	2.1 B	1.4 U	6	1.5	N
ARSENIC	1.5 U	7.4	1.8	3.4 B	50	0.045	C
BARIUM	46.2	54.6	50.8	44.6	2000	260	N
BERYLLIUM	0.10 U	0.33 B	0.34 B	0.10 U	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	25400	21300	21300	26200	N/A	N/A	
CHROMIUM	10.3 B	40.8	52.0	28.6	100	11	N
COBALT	32.4	37.5	74.9	29.6	N/A	220	N
COPPER	7.3	26.8	7.1	5.4 B	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	1750	49000	7110	1500	300	1100	N
LEAD	1.0 U	6.7	3.0 B	1.6 U	15	15	
MAGNESIUM	15900	16600	18200	16700	N/A	N/A	
MANGANESE	1730	1670	1880	1810	50	73	N
MERCURY	3.7	2.9	2.2	3.5	2	1.1 (a)	N
NICKEL	15.4	11.0 B	43.5	27.7	100	73	N
POTASSIUM	2160 B	2600	2460 B	2010	N/A	N/A	
SELENIUM	4.0 B	11.5	4.8 K	3.0 U	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	10700	10400	10200	11300	N/A	N/A	
THALLIUM	2.9 U	3.3 U	10.2 B	3.8 U	2	0.26	N
VANADIUM	2.1 U	36.6	4.2 B	2.9 U	N/A	26	N
ZINC	56.6	15.3	13.8 B	6.9 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				400	N/A	21	N
DISSOLVED OXYGEN	1940				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	4.97				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.497				N/A	N/A	
TEMPERATURE .C	16.4				N/A	N/A	
TURBIDITY NTU	52.8				N/A	N/A	

(a) - RP[illegible]e shown is based on Mercuric chloride.
N/A - N[illegible]lable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW13
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW13 1 4GW130001 2/19/99	04GW13 2 4GW130002 4/22/99	04GW13 3 4GW130003 8/3/99	04GW13 4 4GW130004 11/8/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	2 U	2 U	2 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	2 U	2 U	2 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	0.73 J	0.55 J	0.46 J	1 U	5	0.19	C
1,1-DICHLOROETHANE	2 U	2 U	2 U	1 U	N/A	80	N
1,2-DICHLOROETHANE	2 U	2 U	2 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	2 U	2 U	2 U	0.18 J	N/A	0.55	N
1,4-DICHLOROBENZENE	2 U	2 U	2 U	0.64 J	75	0.47	C
ACETONE	10 UR	10 UR	10 UR	5 UR	N/A	61	N
BENZENE	0.96 J	0.83 J	0.99 B	1	5	0.36	C
BROMOMETHANE	2 U	2 U	2 U	1 U	N/A	0.85	N
CARBON DISULFIDE	2 U	2 U	2 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	2 U	2 U	2 U	1 U	5	0.16	C
CHLOROBENZENE	2.8	3.8	6.3	5.9	100	11	N
CHLOROETHANE	2 U	2 U	2 U	1 U	N/A	3.6	C
CHLOROFORM	2 U	2 U	2 U	1 U	80	0.15	C
CHLOROMETHANE	2 U	2 U	2 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	19	19	16	14	70	6.1	N
ETHYLBENZENE	2 U	2 U	2 U	1 U	700	130	N
METHYLENE CHLORIDE	4 U	4 U	4 U	2 U	5	4.1	C
TETRACHLOROETHENE	2 U	2 U	2 U	1 U	5	1.1	C
TOLUENE	2 U	2 U	2 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	2 U	2 U	2 U	1 U	100	12	N
TRICHLOROETHENE	14	11	26	13	5	1.6	C
VINYL CHLORIDE	4.5	5.5	5.0	4.2	2	0.019	C
XYLENES, TOTAL	2 U	2 U	2 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	3.2 B	8.4 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.20 U	0.23 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.28 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	3.2 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW13
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW13 1 4GW130001 2/19/99	04GW13 2 4GW130002 4/22/99	04GW13 3 4GW130003 8/3/99	04GW13 4 4GW130004 11/8/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	241	116 B	342	118 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1	2.9 U	50	0.045	C
BARIUM	42.3	42.3	51.5	36.2	2000	260	N
BERYLLIUM	0.10 U	0.07 U	0.12 B	0.13 B	4	7.3	N
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	29900	29800	30500	34100	N/A	N/A	
CHROMIUM	7.4 B	5.6 B	8.1 L	5.5	100	11	N
COBALT	20.9	16.6	25.7	11.0	N/A	220	N
COPPER	3.0	5.8	10.5	5.4 B	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.5 B	200	73	N
IRON	3640	4390	5350	3700	300	1100	N
LEAD	1.0 U	0.90 U	1.9 B	1.6 U	15	15	
MAGNESIUM	13900	14900	18500	17800	N/A	N/A	
MANGANESE	1440	1550	1940	1500	50	73	N
MERCURY	0.92	0.91	0.16 L	0.78	2	1.1 (a)	N
NICKEL	11.2	7.5 B	11.1	8.9	100	73	N
POTASSIUM	2650	2710	3830	2940	N/A	N/A	
SELENIUM	2.6 B	2.0 U	2.7 U	3.0 U	50	18	N
SILVER	2.8 U	3.3 U	13.6 B	2.2 U	100	18	N
SODIUM	6740	7220	8340	7020	N/A	N/A	
THALLIUM	2.9 U	3.3 U	5.6 B	3.8 U	2	0.26	N
VANADIUM	2.1 U	5.1 U	3.3 B	2.9 U	N/A	26	N
ZINC	8.7 B	7.4 B	19.0 B	7.8 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				550	N/A	21	N
DISSOLVED OXYGEN	6850				N/A	N/A	
PERCHLORATES	5 U		4 U	8 U	N/A	N/A	
PH	6.04				N/A	N/A	
SALINITY %	0.01				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.292				N/A	N/A	
TEMPERATURE C	13.3				N/A	N/A	
TURBIDITY NTU	40				N/A	N/A	

(a) - RF[illegible]e shown is based on Mercuric chloride.
N/A - N[illegible]lable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW15
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW15 1 4GW150001 2/20/99	04GW15 2 4GW150002 4/22/99	04GW15 3 4GW150003 8/2/99	04GW15 4 4GW150004 11/8/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	0.18 J	1 U	0.9 J	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	45	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	0.41 J	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	0.37 J	1 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	1.8	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	1.8 B	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	0.13 J	100	11	N
CHLOROETHANE	0.25 J	1 U	1 U	1 UJ	N/A	3.6	C
CHLOROFORM	1 U	1 U	1 U	0.16 J	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	3.3	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	0.77 J	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	0.15 J	100	12	N
TRICHLOROETHENE	2.9	5	1.3	68	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	0.29 J	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	4.2 B	4.9 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW15
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW15 1 4GW150001 2/20/99	04GW15 2 4GW150002 4/22/99	04GW15 3 4GW150003 8/2/99	04GW15 4 4GW150004 11/8/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	47.7 B	37.0 B	2960	25.4 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	3.5	2.9 U	50	0.045	C
BARIUM	71.7	71.7	51.3	41.2	2000	260	N
BERYLLIUM	0.13 B	0.07 U	0.17 B	0.10 U	4	7.3	N
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	49400	48100	33000	27500	N/A	N/A	
CHROMIUM	5.1 B	3.3 B	27.2	6.0	100	11	N
COBALT	6.1	2.6	19.6 B	2.6 U	N/A	220	N
COPPER	2.6	5.4	6.5	3.9 B	1300	150	N
CYANIDE	10.0 U	1.7 B	1.4 U	1.2 U	200	73	N
IRON	102 B	34.3 B	7900	82.0 B	300	1100	N
LEAD	1.0 U	0.92 U	2.7 B	1.6 U	15	15	
MAGNESIUM	18900	20800	15000	11500	N/A	N/A	
MANGANESE	324	651	637	33.4	50	73	N
MERCURY	6.1	3.2	1.2	0.25	2	1.1 (a)	N
NICKEL	8.9	12.2 B	9.4	6.6 U	100	73	N
POTASSIUM	3080	3150	3890	2520	N/A	N/A	
SELENIUM	2.9 B	2.0 U	2.7 U	3.0 U	50	18	N
SILVER	3.2 B	3.3 U	6.9 B	2.2 U	100	18	N
SODIUM	17300	17500	16800	8770	N/A	N/A	
THALLIUM	2.9 U	3.3 U	5.4 B	5.9 B	2	0.26	N
VANADIUM	2.1 U	5.1 U	16.1	2.9 U	N/A	26	N
ZINC	15.1	31.6	26.4 B	9.0 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	4070				N/A	N/A	
PERCHLORATES	12.4 K		4 U	76	N/A	N/A	
PH	5.81				N/A	N/A	
SALINITY %	0.02				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.492				N/A	N/A	
TEMPERATURE C	14.1				N/A	N/A	
TURBIDITY NTU	2.5				N/A	N/A	

(a) - RB[illegible]e shown is based on Mercuric chloride.
N/A - N[illegible]lable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW48
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW48 1 4GW480001 2/12/99	04GW48 2 4GW480002 4/26/99	04GW48 3 4GW480003 8/3/99	04GW48 4 4GW480004 11/11/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	10 U	1 U	1 U	10 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	10 U	1 U	1 U	10 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	10 U	1 U	0.15 J	10 U	5	0.19	C
1,1-DICHLOROETHANE	10 U	1 U	1 U	10 U	N/A	80	N
1,2-DICHLOROETHANE	10 U	1 U	1 U	10 U	5	0.12	C
1,3-DICHLOROBENZENE	10 U	1 U	1 U	10 U	N/A	0.55	N
1,4-DICHLOROBENZENE	10 U	0.49 J	0.49 J	10 U	75	0.47	C
ACETONE	50 UR	5 UR	5 UR	50 UR	N/A	61	N
BENZENE	10 U	1 U	1 U	10 U	5	0.36	C
BROMOMETHANE	10 U	1 U	1 U	10 U	N/A	0.85	N
CARBON DISULFIDE	10 U	1 U	1 U	10 U	N/A	100	N
CARBON TETRACHLORIDE	10 U	1 U	1 U	10 U	5	0.16	C
CHLOROBENZENE	3.7 J	0.32 J	0.2 B	1.3 J	100	11	N
CHLOROETHANE	10 U	1 U	1 U	10 UJ	N/A	3.6	C
CHLOROFORM	10 U	0.2 J	0.27 J	10 U	80	0.15	C
CHLOROMETHANE	10 U	1 U	1 U	10 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	10 U	0.45 J	0.64 J	2.6 J	70	6.1	N
ETHYLBENZENE	10 U	1 U	1 U	10 U	700	130	N
METHYLENE CHLORIDE	20 U	2 U	2 U	20 U	5	4.1	C
TETRACHLOROETHENE	10 U	0.82 J	1.2	2.2 J	5	1.1	C
TOLUENE	10 U	1 U	1 U	10 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	10 U	1 U	1 U	10 U	100	12	N
TRICHLOROETHENE	180 J	98	64	420	5	1.6	C
VINYL CHLORIDE	10 U	1 U	1 U	10 U	2	0.019	C
XYLENES, TOTAL	10 U	1 U	1 U	10 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5.7 U	5.3 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5.7 U	5.3 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	3.1 B	3.5 B	5 U	6	4.8	C
FLUORENE	5 U	5.7 U	5.3 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5.7 U	5.3 U	5 U	N/A	0.65	N
PHENOL	5 U	5.7 U	5.3 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.72	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				550 J	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW48
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW48 1 4GW480001 2/12/99	04GW48 2 4GW480002 4/26/99	04GW48 3 4GW480003 8/3/99	04GW48 4 4GW480004 11/11/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	47300	48400	577	449	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U	6	1.5	N
ARSENIC	27.0	35.9	1.1 U	3.0 K	50	0.045	C
BARIUM	282	192	54.0	33.3	2000	260	N
BERYLLIUM	2.6 B	2.7 B	0.12 B	0.10 U	4	7.3	N
CADMIUM	7.3 L	4.2 L	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	70100	94300	86900	39200	N/A	N/A	
CHROMIUM	180	650	2.4 UL	2.3 U	100	11	N
COBALT	74.0	70.1	4.9 B	2.6 U	N/A	220	N
COPPER	168	196	5.6	0.96 U	1300	150	N
CYANIDE	10.0 U	1.7 B	1.4 U	1.2 U	200	73	N
IRON	84600	156000	1600	1110	300	1100	N
LEAD	47.6	43.3	1.1 B	1.6 U	15	15	
MAGNESIUM	10500	13300	10500	4730	N/A	N/A	
MANGANESE	798	541	21.5	28.2	50	73	N
MERCURY	4.8	1.1	0.10 UL	0.07 UL	2	1.1 (a)	N
NICKEL	45.4	72.4	8.8 U	6.6 U	100	73	N
POTASSIUM	4930	4730	3340	2000	N/A	N/A	
SELENIUM	44.8 K	33.7	2.7 U	3.0 U	50	18	N
SILVER	9.5 B	62.4	4.1 B	2.2 U	100	18	N
SODIUM	3950	3520	3140	2480	N/A	N/A	
THALLIUM	5.0 B	3.9 L	4.9 B	3.8 U	2	0.26	N
VANADIUM	184	258	4.3 B	2.9 U	N/A	26	N
ZINC	118	110	10.1 B	4.2 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	4490				N/A	N/A	
PERCHLORATES	5 U		8 U	4 U	N/A	N/A	
PH	6.31				N/A	N/A	
SALINITY %	0.01				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.289				N/A	N/A	
TEMPERATURE C	12.3				N/A	N/A	
TURBIDITY NTU	999				N/A	N/A	

(a) - RB' 'ue shown is based on Mercuric chloride.
N/A - N lable
**All RB values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW49D
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW49D 1 4GW49D0001 2/18/99	04GW49D 2 4GW49D0002 4/22/99	04GW49D 3 4GW49D0003 8/2/99	04GW49D 4 4GW49D0004 11/8/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1.3	0.93 J	0.62 J	0.31 J	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	5 UR	5 UR	1.8 B	5 U	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROETHANE	1 U	1 U	1 U	1 UJ	N/A	3.6	C
CHLOROFORM	1 U	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	0.11 J	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	2.6 B	1.3 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW49D
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW49D 1 4GW49D0001 2/18/99	04GW49D 2 4GW49D0002 4/22/99	04GW49D 3 4GW49D0003 8/2/99	04GW49D 4 4GW49D0004 11/8/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	53.7 B	55.1 B	1780	26.9 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	2.5	2.9 U	50	0.045	C
BARIUM	34.7	34.2	73.8	38.4	2000	260	N
BERYLLIUM	0.10 U	0.07 U	0.10 U	0.10 U	4	7.3	N
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	33800	29100	24200	21200	N/A	N/A	
CHROMIUM	2.3 U	3.0 U	22.5	2.3 U	100	11	N
COBALT	9.4	9.2	17.7 B	9.3	N/A	220	N
COPPER	3.3	5.2	16.6	3.8 B	1300	150	N
CYANIDE	10.0 U	1.3 B	1.4 U	1.2 U	200	73	N
IRON	2640	2350	7020	2090	300	1100	N
LEAD	1.0 U	0.92 U	3.2 B	1.6 U	15	15	
MAGNESIUM	13000	11600	9440	8860	N/A	N/A	
MANGANESE	466	410	358	330	50	73	N
MERCURY	0.41	0.28 L	3.7	0.07 U	2	1.1 (a)	N
NICKEL	7.5 U	24.4 B	15.4	6.6 U	100	73	N
POTASSIUM	4640	4680	5020	4210	N/A	N/A	
SELENIUM	2.5 U	2.0 U	7.4 K	3.0 U	50	18	N
SILVER	2.8 U	3.3 U	7.4 B	2.2 U	100	18	N
SODIUM	17800	16600	14600	14900	N/A	N/A	
THALLIUM	2.9 U	3.3 U	5.0 B	4.6 B	2	0.26	N
VANADIUM	2.1 U	5.1 U	13.0 B	2.9 U	N/A	26	N
ZINC	27.4	10.7	50.2	7.5 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				580	N/A	21	N
DISSOLVED OXYGEN	2940				N/A	N/A	
PERCHLORATES	5 U		4 U	8 U	N/A	N/A	
PH	6.13				N/A	N/A	
SALINITY %	0.01				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.385				N/A	N/A	
TEMPERATURE C	14.7				N/A	N/A	
TURBIDITY NTU	22				N/A	N/A	

(a) - RB' 'ue shown is based on Mercuric chloride.
N/A - N ilable
**All RB values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW50
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW50 1 4GW500001 2/17/99	04GW50 2 4GW500002 4/29/99	04GW50 3 4GW500003 7/28/99	04GW50 4 4GW500004 11/3/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	15 U	100 U	100 U	100 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	16	210	300 J	290	N/A	0.053	C
1,1,2-TRICHLOROETHANE	15 U	100 U	100 U	100 U	5	0.19	C
1,1-DICHLOROETHANE	15 U	100 U	100 U	100 U	N/A	80	N
1,2-DICHLOROETHANE	15 U	100 U	100 U	100 U	5	0.12	C
1,3-DICHLOROBENZENE	15 U	100 U	100 U	100 U	N/A	0.55	N
1,4-DICHLOROBENZENE	15 U	100 U	100 U	100 U	75	0.47	C
ACETONE	75 UR	500 UR	500 UR	500 UR	N/A	61	N
BENZENE	15 U	100 U	100 U	100 U	5	0.36	C
BROMOMETHANE	15 U	100 U	100 U	100 U	N/A	0.85	N
CARBON DISULFIDE	15 U	100 U	100 U	100 U	N/A	100	N
CARBON TETRACHLORIDE	15 U	100 U	100 U	100 U	5	0.16	C
CHLOROBENZENE	15 U	100 U	100 U	20 J	100	11	N
CHLOROETHANE	15 U	100 U	100 U	100 UJ	N/A	3.6	C
CHLOROFORM	15 U	24 J	100 U	100 U	80	0.15	C
CHLOROMETHANE	15 U	100 U	100 U	100 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	7.4 J	140	150	130	70	6.1	N
ETHYLBENZENE	15 U	100 U	100 U	100 U	700	130	N
METHYLENE CHLORIDE	30 U	200 U	52 B	200 U	5	4.1	C
TETRACHLOROETHENE	15 U	100 U	100 U	100 U	5	1.1	C
TOLUENE	15 U	100 U	100 U	100 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	15 U	100 U	100 U	100 U	100	12	N
TRICHLOROETHENE	110	1100	1200	740	5	1.6	C
VINYL CHLORIDE	15 U	100 U	100 U	18 J	2	0.019	C
XYLENES, TOTAL	15 U	100 U	100 U	100 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5.2 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5.2 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	1 B	2.5 B	5 U	6	4.8	C
FLUORENE	5 U	5.2 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5.2 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5.2 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				630	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW50
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW50 1 4GW500001 2/17/99	04GW50 2 4GW500002 4/29/99	04GW50 3 4GW500003 7/28/99	04GW50 4 4GW500004 11/3/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	72.2 B	25800	3190	4170	50-200	3700	N
ANTIMONY	1.9 U	34.2 U	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	24.1	3.0	7.8	50	0.045	C
BARIUM	29.3	94.2	59.8	72.1	2000	260	N
BERYLLIUM	0.16 B	0.52	0.11 U	0.22 B	4	7.3	N
CADMIUM	2.7 UL	3.0 U	3.0 UL	3.2 U	5	3.7	N
CALCIUM	20400	26300	37400	51300	N/A	N/A	
CHROMIUM	15.7 K	168	23.8	59.1	100	11	N
COBALT	55.1	17.6	10.7	17.6	N/A	220	N
COPPER	3.9	91.1	17.2	38.9	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	3.0	200	73	N
IRON	218 B	83800	14200	36400	300	1100	N
LEAD	1.0 U	24.3	4.3 L	6.2	15	15	
MAGNESIUM	9620	11200	13800	17800	N/A	N/A	
MANGANESE	2.4 B	312	737	1400	50	73	N
MERCURY	0.70	5.0	2.4	3.7	2	1.1 (a)	N
NICKEL	16.2	17.2	9.2	12.3	100	73	N
POTASSIUM	2270 B	3800	3010	5740 K	N/A	N/A	
SELENIUM	2.5 U	8.1	2.7 U	2.4 UJ	50	18	N
SILVER	4.0 B	3.3	2.2 U	3.6	100	18	N
SODIUM	10100	8380	8210 K	9610	N/A	N/A	
THALLIUM	3.6 B	4.4 B	5.2 B	10.1 B	2	0.26	N
VANADIUM	2.1 U	109	17.4	31.6	N/A	26	N
ZINC	13.9	57.8	16.9	25.4 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				580	N/A	21	N
DISSOLVED OXYGEN	5000				N/A	N/A	
PERCHLORATES	9.29 K		4 U	4 U	N/A	N/A	
PH	4.3				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.2				N/A	N/A	
TEMPERATURE C	18				N/A	N/A	
TURBIDITY NTU	23				N/A	N/A	

(a) - RB' 'ue shown is based on Mercuric chloride.
N/A - N lable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW52
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW52 1 4GW520001 2/16/99	04GW52 2 4GW520002 4/26/99	04GW52 3 4GW520003 7/30/99	04GW52 4 4GW520004 11/8/99 4GW520004-D	04GW52 4 4GW520004-D 11/8/99 4GW520004	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	2.2 B	5 UR	2.3 B	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	100	11	N
CHLOROETHANE	1 U	1 U	1 U	1 UJ	1 UJ	N/A	3.6	C
CHLOROFORM	0.33 J	0.24 J	0.25 J	0.18 B	0.19 B	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	0.12 J	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	0.17 J	1 U	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)								
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	1.6 J	4.1 B	31	5 U	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)								
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)								
TPH-DIESEL				140	500	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW52
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW52 1 4GW520001 2/16/99	04GW52 2 4GW520002 4/26/99	04GW52 3 4GW520003 7/30/99	04GW52 4 4GW520004 11/8/99 4GW520004-D	04GW52 4 4GW520004-D 11/8/99 4GW520004	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)								
ALUMINUM	337 B	6340	11700	109	73.7	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U	1.4 U	6	1.5	N
ARSENIC	1.5 U	12.4	18.8	2.9 U	3.6 K	50	0.045	C
BARIUM	104	145	163	105	110	2000	260	N
BERYLLIUM	0.10 U	0.37 B	0.75 B	0.10 U	0.10 U	4	7.3	N
CADMIUM	2.7 UL	3.8 L	3.0 UL	3.2 UL	3.2 UL	5	3.7	N
CALCIUM	7800	7330	7390	7670	7940	N/A	N/A	
CHROMIUM	19.2 K	84.9	672	2.3 U	2.3 U	100	11	N
COBALT	76.0	84.0	119	28.4	28.9	N/A	220	N
COPPER	24.5	148	219	16.7	18.8	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	1.2 U	200	73	N
IRON	2160	79300	126000	601	599	300	1100	N
LEAD	1.0 U	11.3	23.5	1.6 U	1.6 U	15	15	
MAGNESIUM	12800	15800	15900	17700	18400	N/A	N/A	
MANGANESE	365	344	423	336	345	50	73	N
MERCURY	1.7	5.1	6.9	4.2	4.2	2	1.1 (a)	N
NICKEL	90.3	86.4	486	30.9	23.1	100	73	N
POTASSIUM	2350 B	3200	4050	2350	2580	N/A	N/A	
SELENIUM	9.4 B	39.3	70.5 K	4.7 K	6.4 K	50	18	N
SILVER	2.8 U	3.3 U	8.1	2.2 U	2.2 U	100	18	N
SODIUM	7460	7420	7190 K	7650	8160	N/A	N/A	
THALLIUM	2.9 U	4.2	6.2 B	3.8	3.8 U	2	0.26	N
VANADIUM	2.8	74.8	151	2.9 U	2.9 U	N/A	26	N
ZINC	25.6	32.4	49.2	10.7 B	15.0 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)								
AMMONIA				200 U	200 U	N/A	21	N
DISSOLVED OXYGEN	910					N/A	N/A	
PERCHLORATES	5 U		4 U	8 U	4 U	N/A	N/A	
PH	5.27					N/A	N/A	
SALINITY %	0					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.269					N/A	N/A	
TEMPERATURE C	15.6					N/A	N/A	
TURBIDITY NTU	190					N/A	N/A	

(a) - RB[illegible]e shown is based on Mercuric chloride.
N/A - N[illegible]lable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW79
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	04GW79	04GW79	04GW79	04GW79	04GW79	04GW79	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
ROUND:	1	1	2	3	4	4			
SAMPLE I.D.:	4GW790001	4GW790001-D	4GW790002	4GW790003	4GW790004	4GW790004-D			
SAMPLE DATE:	2/20/99	2/20/99	4/27/99	8/2/99	11/9/99	11/9/99			
ASSOCIATED DUPLICATE:	4GW790001-D	4GW790001			4GW790004-D	4GW790004			
VOLATILES (µg/L)									
1,1,1-TRICHLOROETHANE	0.32 J	2 U	2 U	2 U	2 U	2 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	17	18	14	9.3	6	4	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	2 U	2 U	2 U	2 U	2 U	5	0.19	C
1,1-DICHLOROETHANE	0.32 J	2 U	2 U	2 U	2 U	2 U	N/A	80	N
1,2-DICHLOROETHANE	0.62 J	0.63 J	2 U	2 U	2 U	2 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	2 U	2 U	2 U	2 U	2 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	2 U	2 U	2 U	2 U	2 U	75	0.47	C
ACETONE	1.6 B	10 UR	10 UR	10 UR	10 UR	10 UR	N/A	61	N
BENZENE	1 U	2 U	2 U	2 U	2 U	2 U	5	0.36	C
BROMOMETHANE	1 U	2 U	2 U	2 U	2 U	2 U	N/A	0.85	N
CARBON DISULFIDE	1 U	2 U	2 U	2 U	2 U	2 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	2 U	2 U	2 U	2 U	2 U	5	0.16	C
CHLOROBENZENE	0.61 J	0.6 J	0.63 J	0.47 B	2 U	2 U	100	11	N
CHLOROETHANE	1 U	2 U	2 U	2 U	2 UJ	2 UJ	N/A	3.6	C
CHLOROFORM	1 U	2 U	2 U	2 U	2 U	2 U	80	0.15	C
CHLOROMETHANE	1 U	2 U	2 U	2 U	2 U	2 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1.7	1.7 J	1.6 J	0.77 J	0.4 J	0.31 J	70	6.1	N
ETHYLBENZENE	1 U	2 U	2 U	2 U	2 U	2 U	700	130	N
METHYLENE CHLORIDE	2 U	4 U	4 U	4 U	4 U	4 U	5	4.1	C
TETRACHLOROETHENE	0.28 J	2 U	2 U	2 U	0.22 J	2 U	5	1.1	C
TOLUENE	1 U	2 U	2 U	2 U	2 U	2 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	2 U	2 U	2 U	2 U	2 U	100	12	N
TRICHLOROETHENE	43	43	52 J	33	26	21	5	1.6	C
VINYL CHLORIDE	1 U	2 U	2 U	2 U	2 U	2 U	2	0.019	C
XYLENES, TOTAL	1 U	2 U	2 U	2 U	2 U	2 U	10000	1200	N
SEMIVOLATILES (µg/L)									
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	1.2 J	5 U	1.3 B	7.3 B	5 U	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)									
2,4-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)									
TPH-DIESEL					100 UJ	150 J	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW79
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	04GW79	04GW79	04GW79	04GW79	04GW79	04GW79	FEDERAL	REGION III RBC	TAP WATER
ROUND:	1	1	2	3	4	4	MCLs	FOR TAP WATER	BASIS
SAMPLE I.D.:	4GW790001	4GW790001-D	4GW790002	4GW790003	4GW790004	4GW790004-D			
SAMPLE DATE:	2/20/99	2/20/99	4/27/99	8/2/99	11/9/99	11/9/99			
ASSOCIATED DUPLICATE:	4GW790001-D	4GW790001			4GW790004-D	4GW790004			
INORGANICS (µg/L)									
ALUMINUM	46.7 B	55.0 B	41.2 B	65.6 B	19.7	19.0	50-200	3700	N
ANTIMONY	1.9 U	1.9 U	34.2 UL	1.7 U	1.4 U	1.4 U	6	1.5	N
ARSENIC	1.5 U	1.5 U	1.3 U	1.1 U	3.0 K	2.9 U	50	0.045	C
BARIUM	51.9	53.6	48.7	55.2	47.5	47.6	2000	260	N
BERYLLIUM	0.10 U	0.10 U	0.07 U	0.23 B	0.10 U	0.10 U	4	7.3	N
CADMIUM	3.0 B	2.7 U	3.0 UL	3.0 UL	3.2 UL	3.2 UL	5	3.7	N
CALCIUM	23800	24600	21500	21300	19500	20100	N/A	N/A	
CHROMIUM	2.3 B	2.3 U	3.0 U	2.4 UL	2.3 U	2.3 U	100	11	N
COBALT	5.4	5.0	4.4	13.4 B	2.6 U	2.6 U	N/A	220	N
COPPER	3.5	2.6	2.7	4.6	1.3	1.8	1300	150	N
CYANIDE	10.0 U	10.0 U	2.1 B	1.4 U	1.4	1.2 U	200	73	N
IRON	52.8 B	61.7 B	57.8 B	102	112 B	69.7 B	300	1100	N
LEAD	1.0 U	1.0 U	0.92 U	1.0 B	1.6 U	1.6 U	15	15	
MAGNESIUM	13500	13900	12800	12700	11200	11200	N/A	N/A	
MANGANESE	491	508	437	441	387	389	50	73	N
MERCURY	2.0	2.0	1.5	4.5	3.2	3.2	2	1.1 (a)	N
NICKEL	7.5 U	7.5 U	5.9 U	8.8 U	6.6 U	6.6 U	100	73	N
POTASSIUM	2620	2370 B	2290	3030	1570	2010	N/A	N/A	
SELENIUM	2.5 U	2.5 U	2.0 U	2.7 U	3.0 U	3.0 U	50	18	N
SILVER	2.8 U	2.8 U	3.3 U	2.3 B	2.2 U	2.2 U	100	18	N
SODIUM	12600	13000	12300	11500	11000	11000	N/A	N/A	
THALLIUM	2.9 U	2.9 U	4.9	5.1 B	3.8 U	3.8 U	2	0.26	N
VANADIUM	2.8 B	2.1 U	5.1 U	3.5 B	2.9 U	2.9 U	N/A	26	N
ZINC	5.1 B	5.4 B	16.4	13.9 B	6.9 B	23.6 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)									
AMMONIA					200 U	200 U	N/A	21	N
DISSOLVED OXYGEN	940						N/A	N/A	
PERCHLORATES	5 U	5 U		4 U	4 U	4 U	N/A	N/A	
PH	5.74						N/A	N/A	
SALINITY %	0.01						N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.303						N/A	N/A	
TEMPERATURE C	13.7						N/A	N/A	
TURBIDITY NTU	2.2						N/A	N/A	

(a) - RB' 'ue shown is based on Mercuric chloride.
N/A - N ilable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW80
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW80 1 4GW800001 2/19/99	04GW80 2 4GW800002 4/29/99 4GW800002-D	04GW80 2 4GW800002-D 4/29/99 4GW800002	04GW80 3 4GW800003 8/2/99 4GW800003-D	04GW80 3 4GW800003-D 8/2/99 4GW800003	04GW80 4 4GW800004 11/8/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)									
1,1,1-TRICHLOROETHANE	2 U	2 U	10 U	10 U	10 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	4	6.6	5.6 J	8.2 J	10 U	5.9	N/A	0.053	C
1,1,2-TRICHLOROETHANE	2 U	2 U	10 U	10 U	10 U	0.2 J	5	0.19	C
1,1-DICHLOROETHANE	2 U	2 U	10 U	10 U	10 U	1 U	N/A	80	N
1,2-DICHLOROETHANE	2 U	2 U	10 U	10 U	10 U	0.64 J	5	0.12	C
1,3-DICHLOROBENZENE	2 U	2 U	10 U	10 U	10 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	2 U	2 U	10 U	10 U	10 U	1 U	75	0.47	C
ACETONE	10 UR	10 UR	50 UR	50 UR	50 UR	1 B	N/A	61	N
BENZENE	2 U	2 U	10 U	10 U	10 U	1 U	5	0.36	C
BROMOMETHANE	2 U	2 U	10 U	10 U	10 U	1 U	N/A	0.85	N
CARBON DISULFIDE	2 U	2 U	10 U	10 U	10 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	2 U	2 U	10 U	10 U	10 U	0.16 J	5	0.16	C
CHLOROBENZENE	2 U	2 U	10 U	10 U	10 U	1 U	100	11	N
CHLOROETHANE	2 U	2 U	10 U	10 U	10 U	1 UJ	N/A	3.6	C
CHLOROFORM	0.94 B	1.7 J	2.7 J	1.7 J	1.8 J	1.3 B	80	0.15	C
CHLOROMETHANE	2 U	2 U	10 U	10 U	10 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	2.9	4.6	3.8 J	5.6 J	5.4 J	3.5	70	6.1	N
ETHYLBENZENE	2 U	2 U	10 U	10 U	10 U	1 U	700	130	N
METHYLENE CHLORIDE	4 U	4 U	20 U	20 U	20 U	2 U	5	4.1	C
TETRACHLOROETHENE	0.99 J	1.9 J	10 U	2.0 J	1.8 J	1.3	5	1.1	C
TOLUENE	2 U	2 U	10 U	10 U	10 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	2 U	1.1 J	10 U	10 U	10 U	0.79 J	100	12	N
TRICHLOROETHENE	49	93	93	110	100	77	5	1.6	C
VINYL CHLORIDE	2 U	2 U	10 U	10 U	10 U	1 U	2	0.019	C
XYLENES, TOTAL	2 U	2 U	10 U	10 U	10 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)									
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	1.5 B	1.6 B	5 U	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)									
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	1.3	1.3	1.2	1.3	1.4	1.4	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	2.6	0.73	0.73	0.80	0.78	0.52	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)									
TPH-DIESEL						940	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW80
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	04GW80	04GW80	04GW80	04GW80	04GW80	04GW80	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
ROUND:	1	2	2	3	3	4			
SAMPLE I.D.:	4GW800001	4GW800002	4GW800002-D	4GW800003	4GW800003-D	4GW800004			
SAMPLE DATE:	2/19/99	4/29/99	4/29/99	8/2/99	8/2/99	11/8/99			
ASSOCIATED DUPLICATE:		4GW800002-D	4GW800002	4GW800003-D	4GW800003				
INORGANICS (µg/L)									
ALUMINUM	112 B	554	540	2370	1760	170	50-200	3700	N
ANTIMONY	1.9 U	34.2 U	34.2 U	1.7 U	1.7 U	1.4 U	6	1.5	N
ARSENIC	1.5 U	1.3 B	1.4 B	3.7	1.8	2.9 U	50	0.045	C
BARIUM	24.0	23.9	23.5	36.4	33.1	21.6	2000	260	N
BERYLLIUM	0.10 U	0.07 U	0.07 U	0.17 B	0.13 B	0.10 U	4	7.3	N
CADMIUM	2.7 U	3.0 U	3.0 U	3.0 UL	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	4200	3710	3660	4650	4480	4140	N/A	N/A	
CHROMIUM	15.1 B	21.6	19.9	130	96.2	24.5	100	11	N
COBALT	41.9	11.6	11.0	29.7	26.5	11.3	N/A	220	N
COPPER	6.0	9.4	9.4	28.2	24.2	3.0	1300	150	N
CYANIDE	10.0 U	1.5 B	1.1 U	1.4 U	1.4 U	1.2 U	200	73	N
IRON	5490	12600	12900	50600	44100	7540	300	1100	N
LEAD	1.0 U	1.3	0.92 U	3.3 B	3.3 B	1.6 U	15	15	
MAGNESIUM	3380	3300	3230	4090	3950	3660	N/A	N/A	
MANGANESE	157	129	126	219	199	138	50	73	N
MERCURY	0.31	1.4	1.8	0.10 UL	0.10 UL	1.0	2	1.1 (a)	N
NICKEL	39.3	41.7	41.0	109	85.9	42.2	100	73	N
POTASSIUM	2170 B	1890	2040	2760	2250 B	1760	N/A	N/A	
SELENIUM	3.7 B	2.0 U	2.6	8.9 K	8.0 K	3.0 U	50	18	N
SILVER	2.8 U	3.3 U	3.3 U	8.9 B	5.0 B	2.2 U	100	18	N
SODIUM	57100	62700	61300	68200	67400	72400	N/A	N/A	
THALLIUM	2.9 U	3.3 U	3.3 U	5.0 B	6.7 B	7.9	2	0.26	N
VANADIUM	2.1 U	5.1 U	5.1 U	17.7	12.2 B	2.9 U	N/A	26	N
ZINC	8.7 B	13.8 B	15.2	17.3 B	18.8 B	8.9 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)									
AMMONIA						200 U	N/A	21	N
DISSOLVED OXYGEN	330						N/A	N/A	
PERCHLORATE	5 U			10	10	10	N/A	N/A	
PH	5.67						N/A	N/A	
SALINITY %	0.02						N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.562						N/A	N/A	
TEMPERATURE C	15.6						N/A	N/A	
TURBIDITY NTU	50						N/A	N/A	

(a) - RB[illegible] ue shown is based on Mercuric chloride.
N/A - N[illegible] iable
**All RB[illegible] values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW81D
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	04GW81D	04GW81D	04GW81D	04GW81D	04GW81D	04GW81D	04GW81D	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
ROUND:	1	1	2	2	3	3	4			
SAMPLE I.D.:	4GW81D0001	4GW81D0001-D	4GW81D0002	4GW81D0002-D	4GW81D0003	4GW81D0003-D	4GW81D0004			
SAMPLE DATE:	2/19/99	2/19/99	4/28/99	4/28/99	8/3/99	8/3/99	11/10/99			
ASSOCIATED DUPLICATE:	4GW81D0001-D	4GW81D0001	4GW81D0002-D	4GW81D0002	4GW81D0003-D	4GW81D0003				
VOLATILES (µg/L)										
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	0.98 J	1.2	1.1	1.3	1.5	1.4 J	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	100	11	N
CHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	N/A	3.6	C
CHLOROFORM	1 U	1 U	0.32 J	0.3 J	0.31 J	0.29 J	0.24 B	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	0.24 J	1 U	0.23 J	1 U	0.11 J	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	0.74 J	0.73 J	1.1	1	0.93 J	0.97 J	0.49 J	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	0.51 J	0.52 J	0.87 J	0.79 J	0.74 J	0.76 J	0.44 J	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)										
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	1.2 B	2.8 B	6.6 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)										
2,4-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.20 U	0.28	0.28	0.29	0.31	0.29	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	1.7	1.6	1.9	1.8	2.0	1.9	1.9	N/A	180	N
NITROBENZENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.84	0.81	1	0.94	1.0	1.1	0.91	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)										
TPH-DIESEL							100 UJ	N/A	N/A	
INORGANICS (µg/L)										
ALUMINUM	87.3 B	86.8 B	94.3 B	104 B	104 B	86.1 B	80.7	50-200	3700	N
ANTIMONY	1.9 U	4.2 B	34.2 UL	34.2 U	2.4 B	2.2 B	1.4 U	6	1.5	N
ARSENIC	1.5 U	1.5 U	1.3 U	1.3 U	1.1 U	1.1 U	2.9 U	50	0.045	C
BARIUM	85.1	85.5	93.2	93.7	94.6	94.1	89.4	2000	260	N
BERYLLIUM	0.10 U	0.10 U	0.08 B	0.08 B	0.35 B	0.16 B	0.10 U	4	7.3	N
CADMIUM	2.7 U	2.7 U	3.0 UL	3.0 U	3.0 UL	3.0 U	3.2 UL	5	3.7	N
CALCIUM	2820	2810	2910	3090	2910	2900 B	3660	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW81D
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	04GW81D	04GW81D	04GW81D	04GW81D	04GW81D	04GW81D	04GW81D	FEDERAL	REGION III RBC	TAP WATER
ROUND:	1	1	2	2	3	3	4	MCLs	FOR TAP WATER	BASIS
SAMPLE I.D.:	4GW81D0001	4GW81D0001-D	4GW81D0002	4GW81D0002-D	4GW81D0003	4GW81D0003-D	4GW81D0004			
SAMPLE DATE:	2/19/99	2/19/99	4/28/99	4/28/99	8/3/99	8/3/99	11/10/99			
ASSOCIATED DUPLICATE:	4GW81D0001-D	4GW81D0001	4GW81D0002-D	4GW81D0002	4GW81D0003-D	4GW81D0003				
CHROMIUM	2.3 U	2.3 U	3.0 U	3.0 UL	2.4 UL	2.4 UL	2.3 U	100	11	N
COBALT	5.0	3.3 U	2.8	3.3	4.1 B	3.8 U	3.4	N/A	220	N
COPPER	2.4 U	2.4 U	7.0	4.4	1.4 U	1.4 U	2.2	1300	150	N
CYANIDE	10.0 U	10.0 U	1.5 B	1.1 U	1.4 U	1.4 U	1.2 U	200	73	N
IRON	55.7 B	43.5 B	54.7 B	62.8	9.2 U	9.2 U	98.8 B	300	1100	N
LEAD	1.0 U	1.0 U	0.92 U	0.92 U	1.0 B	1.0 U	1.6 U	15	15	
MAGNESIUM	6550	6560	7360	7340	7570	7460	7190	N/A	N/A	
MANGANESE	78.0	77.7	86.4	90.9	91.0	91.0	90.0	50	73	N
MERCURY	5.2	5.2	5.0	5.2	4.8	4.8	4.5	2	1.1 (a)	N
NICKEL	7.5 U	10.8	6.0 B	5.9 U	8.8 U	8.8 U	6.6 U	100	73	N
POTASSIUM	1390 B	1490 B	1750	1680	2170 B	1770 B	1460	N/A	N/A	
SELENIUM	5.2 B	5.2 B	2.8	3.4	4.0 K	4.0	4.9 K	50	18	N
SILVER	2.8 U	2.8 U	3.3 U	3.3 U	3.3 B	2.2 U	2.2 U	100	18	N
SODIUM	6520	6520	7280	6990	7480	7180	6920	N/A	N/A	
THALLIUM	2.9 U	5.2 B	5.3	3.4 B	5.2 B	3.7 UL	3.8	2	0.26	N
VANADIUM	2.1 U	2.1 U	5.1 U	5.1 U	2.4 U	2.4 U	2.9 U	N/A	26	N
ZINC	6.2 B	4.6 B	37.5	9.5 B	8.0 B	7.4 B	46.5	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)										
AMMONIA							200 U	N/A	21	N
DISSOLVED OXYGEN	60200							N/A	N/A	
PERCHLORATES	5 U	5 U			4 U	4 U	4 U	N/A	N/A	
PH	4.77							N/A	N/A	
SALINITY %	0							N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.115							N/A	N/A	
TEMPERATURE C	15.4							N/A	N/A	
TURBIDITY NTU	2.57							N/A	N/A	

(a) - RBC shown is based on Mercuric chloride.
N/A - No ole
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW81S
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW81S 1 4GW81S0001 2/19/99	04GW81S 2 4GW81S0002 4/28/99	04GW81S 3 4GW81S0003 8/3/99	04GW81S 4 4GW81S0004 11/5/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	4.7	4.8	4.5 J	4	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROETHANE	1 U	1 U	1 U	1 U	N/A	3.6	C
CHLOROFORM	1 U	0.28 J	0.26 J	0.32 J	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	0.49 J	0.67 J	0.46 J	0.49 J	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1.3	2.2	1.8	1.4	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	0.41 J	0.28 J	0.28 J	100	12	N
TRICHLOROETHENE	1.3	2.2 J	1.5	1.5	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	1.1 J	5 U	4.4 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.22	0.23	0.21	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	2	1.9	2	1.8	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	1.1	0.83	0.81	0.67	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW81S
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW81S 1 4GW81S0001 2/19/99	04GW81S 2 4GW81S0002 4/28/99	04GW81S 3 4GW81S0003 8/3/99	04GW81S 4 4GW81S0004 11/5/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	195 B	201	128 B	168 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 U	1.7 U	1.4 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1 U	2.9 U	50	0.045	C
BARIUM	84.6	84.9	83.3	81.7	2000	260	N
BERYLLIUM	0.13 B	0.08 B	0.18 B	0.13 B	4	7.3	N
CADMIUM	3.6 B	3.0 U	3.0 U	3.2 UL	5	3.7	N
CALCIUM	2790	2740	2800	2810	N/A	N/A	
CHROMIUM	21.5	16.5	31.1	27.3	100	11	N
COBALT	13.7	14.2	53.3	21.4	N/A	220	N
COPPER	15.1	16.0	12.9	17.2	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	2140	2260	1260	2370	300	1100	N
LEAD	1.0 U	0.92 U	1.0 U	1.6 U	15	15	
MAGNESIUM	5620	5670	5650	5520	N/A	N/A	
MANGANESE	140	144	140	141	50	73	N
MERCURY	3.3	3.2	3.0	2.4	2	1.1 (a)	N
NICKEL	37.9	38.5	42.2 B	46.6	100	73	N
POTASSIUM	1790 B	1830	1740 B	1690	N/A	N/A	
SELENIUM	5.6 B	2.0 U	2.7 U	3.4 K	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	3.0 B	100	18	N
SODIUM	9710	9710	8810	8590	N/A	N/A	
THALLIUM	2.9 U	5.4 B	6.6 B	3.8 U	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	53.8	17.3	28.4 J	17.1 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				80	N/A	21	N
DISSOLVED OXYGEN	5100				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	5.1				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.131				N/A	N/A	
TEMPERATURE C	17				N/A	N/A	
TURBIDITY NTU	60				N/A	N/A	

(a) - RB' 'ue shown is based on Mercuric chloride.
N/A - N lable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW82
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW82 1 4GW820001 2/19/99	04GW82 2 4GW820002 4/28/99	04GW82 3 4GW820003 8/2/99	04GW82 4 4GW820004 11/4/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	0.57 J	1 U	1 U	75	0.47	C
ACETONE	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROETHANE	1 U	1 U	1 U	1 UJ	N/A	3.6	C
CHLOROFORM	0.46 B	2.1	2.4	1.7	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	2.1 J	2.5 B	3.4 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW82
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW82 1 4GW820001 2/19/99	04GW82 2 4GW820002 4/28/99	04GW82 3 4GW820003 8/2/99	04GW82 4 4GW820004 11/4/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	31400	2200	4850	380 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 U	1.7 U	1.4 U	6	1.5	N
ARSENIC	13.2	2.1 B	2.5	2.9 U	50	0.045	C
BARIUM	263	88.8	99.7	60.3	2000	260	N
BERYLLIUM	2.1	0.38 B	0.56 B	0.22 B	4	7.3	N
CADMIUM	2.8 B	3.0 U	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	3240	2380	2790	2260	N/A	N/A	
CHROMIUM	105	8.4	10.7 L	2.3 U	100	11	N
COBALT	41.1 K	15.5	18.2 B	9.2	N/A	220	N
COPPER	92.2	25.8	23.9	14.8	1300	150	N
CYANIDE	10.0 U	2.5 B	1.4 U	1.5 B	200	73	N
IRON	133000	8810	19600	1730	300	1100	N
LEAD	42.3	4.0	7.3 B	1.6 U	15	15	
MAGNESIUM	15800	6490	7080	5150	N/A	N/A	
MANGANESE	407	160	178	114	50	73	N
MERCURY	2.2	0.40 B	0.10 UL	0.07 U	2	1.1 (a)	N
NICKEL	115	57.0	44.9	41.5	100	73	N
POTASSIUM	12300	3670	4330	2240	N/A	N/A	
SELENIUM	10.5 B	2.0 U	2.7 U	3.0 U	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	19600	33300	31600	36700	N/A	N/A	
THALLIUM	3.9 B	3.7 B	6.0 B	5.3 B	2	0.26	N
VANADIUM	93.7	7.5	12.9 B	2.9 U	N/A	26	N
ZINC	214	72.7	102	53.8	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				440	N/A	21	N
DISSOLVED OXYGEN	5910				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	4.51				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.16				N/A	N/A	
TEMPERATURE C	12.9				N/A	N/A	
TURBIDITY NTU	305				N/A	N/A	

(a) - RB[illegible]e shown is based on Mercuric chloride.
N/A - N[illegible]lable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04PZ89
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04PZ89 1 4GW890001 2/20/99	04PZ89 2 4GW890002 4/27/99	04PZ89 3 4GW890003 8/2/99 4GW890003-D	04PZ89 3 4GW890003-D 8/2/99 4GW890003	04PZ89 4 4GW890004 11/9/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U	1 U	2 U	2 U	2 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	3.8	4.8	2 U	1.7 J	2 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	2 U	2 U	2 U	5	0.19	C
1,1-DICHLOROETHANE	0.28 J	0.37 J	2 U	2 U	2 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	2 U	2 U	2 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	2 U	2 U	2 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	2 U	2 U	2 U	75	0.47	C
ACETONE	2 B	5 UR	10 UR	10 UR	10 UR	N/A	61	N
BENZENE	1 U	1 U	2 U	2 U	2 U	5	0.36	C
BROMOMETHANE	1 U	1 U	2 U	2 U	2 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	2 U	2 U	2 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	2 U	2 U	2 U	5	0.16	C
CHLOROBENZENE	0.34 J	0.42 J	2 U	2 U	2 U	100	11	N
CHLOROETHANE	1 U	1 U	2 U	2 U	2 UJ	N/A	3.6	C
CHLOROFORM	1 U	1 U	2 U	2 U	2 U	80	0.15	C
CHLOROMETHANE	1 U	1 U	2 U	2 U	2 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	0.32 J	0.49 J	2 U	2 U	2 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	2 U	2 U	2 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	4 U	4 U	4 U	5	4.1	C
TETRACHLOROETHENE	1 U	0.22 J	2 U	2 U	2 U	5	1.1	C
TOLUENE	1 U	1 U	2 U	2 U	2 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	2 U	2 U	2 U	100	12	N
TRICHLOROETHENE	16	24 J	15	16	19	5	1.6	C
VINYL CHLORIDE	1 U	1 U	2 U	2 U	2 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	2 U	2 U	2 U	10000	1200	N
SEMIVOLATILES (µg/L)								
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	2.3 B	3.7 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)								
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)								
TPH-DIESEL					100 UJ	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04PZ89
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04PZ89 1 4GW890001 2/20/99	04PZ89 2 4GW890002 4/27/99	04PZ89 3 4GW890003 8/2/99 4GW890003-D	04PZ89 3 4GW890003-D 8/2/99 4GW890003	04PZ89 4 4GW890004 11/9/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)								
ALUMINUM	241	107 B	117 B	108 B	590	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.7 U	1.4 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1 U	1.1 U	2.9 U	50	0.045	C
BARIUM	41.8	39.1	35.8	34.5	39.2	2000	260	N
BERYLLIUM	0.10 U	0.07 U	0.13 B	0.10 U	0.11 B	4	7.3	N
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	17500	16400	16700	15900	15200	N/A	N/A	
CHROMIUM	2.3 U	3.0 U	2.7 UL	2.4 UL	12.8	100	11	N
COBALT	7.2	3.8	6.3 B	7.1 B	5.8	N/A	220	N
COPPER	2.6	2.4 U	3.4	4.3	3.1	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.4 U	1.2 U	200	73	N
IRON	280 B	209	269	264	1780	300	1100	N
LEAD	1.0 U	0.92 U	1.0 U	1.0 U	6.6	15	15	
MAGNESIUM	10700	10300	9580	9260	9100	N/A	N/A	
MANGANESE	358	330	338	324	309	50	73	N
MERCURY	2.2	1.7	3.1	3.3	2.7	2	1.1 (a)	N
NICKEL	7.5 U	5.9 U	8.8 U	8.8 U	11.8	100	73	N
POTASSIUM	2110 B	1710	2590 B	2400 B	1830	N/A	N/A	
SELENIUM	2.5 U	2.0 U	2.7 U	2.7 U	3.0 U	50	18	N
SILVER	2.8 U	3.3 U	4.0 B	2.2 U	2.2 U	100	18	N
SODIUM	11900	12000	11000	10800	11000	N/A	N/A	
THALLIUM	2.9 U	3.3 U	5.4 B	5.4 B	3.8 U	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	2.4 U	2.9 U	N/A	26	N
ZINC	17.7	10.0 B	9.8 B	21.5 B	24.7 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)								
AMMONIA					200 U	N/A	21	N
DISSOLVED OXYGEN	1180					N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	4 U	N/A	N/A	
PH	5.66					N/A	N/A	
SALINITY %	0.01					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.261					N/A	N/A	
TEMPERATURE C	15.1					N/A	N/A	
TURBIDITY NTU	9.2					N/A	N/A	

(a) - RF e shown is based on Mercuric chloride.
N/A - N lable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW100
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW100 1 4GW1000001 2/18/99	04GW100 2 4GW1000002 4/27/99	04GW100 3 4GW1000003 7/29/99	04GW100 4 4GW1000004 11/4/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	0.25 J	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	0.24 J	1 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROETHANE	1 U	1 U	0.62 J	1 UJ	N/A	3.6	C
CHLOROFORM	1 U	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	11	4.9	4.6	2.7	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	1.8 J	5 U	4 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				100 UJ	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW100
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW100 1 4GW1000001 2/18/99	04GW100 2 4GW1000002 4/27/99	04GW100 3 4GW1000003 7/29/99	04GW100 4 4GW1000004 11/4/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	82000	25800	25300	20500	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.8	6	1.5	N
ARSENIC	40.6	15.1	11.2	12.3	50	0.045	C
BARIUM	176	111	78.7	67.6	2000	260	N
BERYLLIUM	1.5 B	0.94 B	0.45 B	0.47 B	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 UL	3.2 U	5	3.7	N
CALCIUM	16200	14200	12900	12900	N/A	N/A	
CHROMIUM	155	73.2	41.0	44.6	100	11	N
COBALT	16.8 K	7.7	3.8 U	7	N/A	220	N
COPPER	83.5	33.2	24.6	34.3	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.5	200	73	N
IRON	104000	55300	27200	30900	300	1100	N
LEAD	40.0	20.5	10.4	11.7	15	15	
MAGNESIUM	11300	9580	9340	7970	N/A	N/A	
MANGANESE	292	235	196	186	50	73	N
MERCURY	7.2	2.3	1.4	1.7	2	1.1 (a)	N
NICKEL	27.9 L	6.8 B	8.8 U	6.6 U	100	73	N
POTASSIUM	5140	2430	2820	2630 K	N/A	N/A	
SELENIUM	7.2 B	2.0 U	3.1 B	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	4.0	100	18	N
SODIUM	10800	11000	11300	8560	N/A	N/A	
THALLIUM	2.9 UL	4.3	8.8 B	8.5 B	2	0.26	N
VANADIUM	269	140	75.7	76.0	N/A	26	N
ZINC	94.8 K	29.1	23.8	43.1	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				300	N/A	21	N
DISSOLVED OXYGEN	3330				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	5.39				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.19				N/A	N/A	
TEMPERATURE C	12.7				N/A	N/A	
TURBIDITY NTU	999				N/A	N/A	

(a) - RB' 'ue shown is based on Mercuric chloride.
N/A - N lable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW101
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW101 1 4GW1010001 2/18/99	04GW101 2 4GW1010002 4/26/99 4GW1010002-D	04GW101 2 4GW1010002-D 4/26/99 4GW1010002	04GW101 4 4GW1010004 11/10/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	0.42 J	0.44 J	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1.3	1.4	1 U	75	0.47	C
ACETONE	3.3 B	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	0.64 J	2.1	2.2	1	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	4.6	9.9	10	5.6	100	11	N
CHLOROETHANE	1 U	1 U	1 U	1 UJ	N/A	3.6	C
CHLOROFORM	1 U	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	0.31 J	0.33 J	0.36 J	0.2 J	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	4.7	3.9	4.1	1.5	5	1.6	C
VINYL CHLORIDE	1 U	0.33 J	0.36 J	0.24 J	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	1.8 J	1.7 J	0.9 J	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	2.8 B	3.6 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				480 J	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW101
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW101 1 4GW1010001 2/18/99	04GW101 2 4GW1010002 4/26/99 4GW1010002-D	04GW101 2 4GW1010002-D 4/26/99 4GW1010002	04GW101 4 4GW1010004 11/10/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	245	161 B	132 B	86.6	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	34.2 UL	1.4 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.3 U	2.9 U	50	0.045	C
BARIUM	71.0	59.8	60.8	57.5	2000	260	N
BERYLLIUM	0.10 U	0.07 U	0.07 U	0.10 U	4	7.3	N
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	58400	58200	57500	66500	N/A	N/A	
CHROMIUM	25.6	3.7 B	3.0 U	2.3 U	100	11	N
COBALT	23.8	10.7	11.3	10.1	N/A	220	N
COPPER	5.2	5.1	5.2	5.2	1300	150	N
CYANIDE	10.0 U	1.3 B	1.1 U	1.2 U	200	73	N
IRON	20500	18900	18600	21900	300	1100	N
LEAD	1.0 U	0.90 U	0.90 U	2.4 K	15	15	
MAGNESIUM	22200	18700	19100	20200	N/A	N/A	
MANGANESE	2550	1720	1720	1710	50	73	N
MERCURY	0.20 U	0.10 UL	0.16 L	0.07 UL	2	1.1 (a)	N
NICKEL	19.6	9.5 B	5.9 U	9.5	100	73	N
POTASSIUM	7630	4260	4410	4170	N/A	N/A	
SELENIUM	2.8 B	2.0 U	2.0 U	3.0 U	50	18	N
SILVER	2.8 U	3.3 U	3.3 U	2.2 U	100	18	N
SODIUM	12400	8700	8960	8170	N/A	N/A	
THALLIUM	2.9 U	3.3 U	3.3 U	3.8 U	2	0.26	N
VANADIUM	2.1 U	5.1 U	5.1 U	2.9 U	N/A	26	N
ZINC	9.4 B	7.2 B	7.7 B	10.0 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				1000	N/A	21	N
DISSOLVED OXYGEN	-5110				N/A	N/A	
PERCHLORATES	5 U			10 U	N/A	N/A	
PH	6.06				N/A	N/A	
SALINITY %	0.03				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.817				N/A	N/A	
TEMPERATURE C	17.3				N/A	N/A	
TURBIDITY NTU	57.3				N/A	N/A	

(a) - RB' e shown is based on Mercuric chloride.
N/A - N iable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW102
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW102 1 4GW1020001 2/17/99	04GW102 2 4GW1020002 4/22/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)					
1,1,1-TRICHLOROETHANE	1500 U	1500 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1500 U	1500 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1500 U	1500 U	5	0.19	C
1,1-DICHLOROETHANE	1500 U	1500 U	N/A	80	N
1,2-DICHLOROETHANE	1500 U	1500 U	5	0.12	C
1,3-DICHLOROBENZENE	1500 U	1500 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1500 U	1500 U	75	0.47	C
ACETONE	7500 UR	7500 UR	N/A	61	N
BENZENE	1500 U	1500 U	5	0.36	C
BROMOMETHANE	1500 U	1500 U	N/A	0.85	N
CARBON DISULFIDE	1500 U	1500 U	N/A	100	N
CARBON TETRACHLORIDE	1500 U	1500 U	5	0.16	C
CHLOROBENZENE	1500 U	1500 U	100	11	N
CHLOROETHANE	1500 U	1500 U	N/A	3.6	C
CHLOROFORM	1500 U	1500 U	80	0.15	C
CHLOROMETHANE	1500 U	1500 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	8500	4100	70	6.1	N
ETHYLBENZENE	1500 U	1500 U	700	130	N
METHYLENE CHLORIDE	3000 U	3000 U	5	4.1	C
TETRACHLOROETHENE	1500 U	1500 U	5	1.1	C
TOLUENE	1500 U	1500 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1500 U	1500 U	100	12	N
TRICHLOROETHENE	8500	11000	5	1.6	C
VINYL CHLORIDE	1500 U	1500 U	2	0.019	C
XYLENES, TOTAL	1500 U	1500 U	10000	1200	N
SEMIVOLATILES (µg/L)					
2-METHYLNAPHTHALENE	5 U	5.4 U	N/A	12	N
ACENAPHTHENE	5 U	5.4 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	1.4 J	8.8 B	6	4.8	C
FLUORENE	5 U	5.4 U	N/A	24	N
NAPHTHALENE	5 U	5.4 U	N/A	0.65	N
PHENOL	1.5 J	1.1 J	N/A	2200	N
EXPLOSIVES (µg/L)					
2,4-DINITROTOLUENE	3.5 U	1 U	N/A	7.3	N
2,6-DINITROTOLUENE	3.8 U	1 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	1.4 U	0.22 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.52 U	N/A	0.22	N
HMX	0.50 U	0.5 U	N/A	180	N
NITROBENZENE	0.43 U	0.77	N/A	0.35	N
RDX	1.7 U	5.6 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)					
TPH-DIESEL			N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW102
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW102 1 4GW1020001 2/17/99	04GW102 2 4GW1020002 4/22/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)					
ALUMINUM	520	178 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	6	1.5	N
ARSENIC	1.5 U	1.3 U	50	0.045	C
BARIUM	25.1	22.7	2000	260	N
BERYLLIUM	0.10 U	0.07 U	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	5	3.7	N
CALCIUM	8580	6830	N/A	N/A	
CHROMIUM	9.3 B	3.8 B	100	11	N
COBALT	37.8	39.9	N/A	220	N
COPPER	5.1	5.0	1300	150	N
CYANIDE	10.0 U	3.0 B	200	73	N
IRON	23200	21000	300	1100	N
LEAD	1.0 U	0.90 U	15	15	
MAGNESIUM	2950	2880	N/A	N/A	
MANGANESE	817	901	50	73	N
MERCURY	0.20 UL	0.10 UL	2	1.1 (a)	N
NICKEL	15.5	14.4 B	100	73	N
POTASSIUM	6160	4290	N/A	N/A	
SELENIUM	2.5 U	2.0 U	50	18	N
SILVER	2.8 U	3.3 U	100	18	N
SODIUM	22200	19600	N/A	N/A	
THALLIUM	3.3 B	3.3 U	2	0.26	N
VANADIUM	2.8	5.1 U	N/A	26	N
ZINC	18.2	10.5	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)					
AMMONIA			N/A	21	N
DISSOLVED OXYGEN	4220		N/A	N/A	
PERCHLORATES	5 U		N/A	N/A	
PH	6.38		N/A	N/A	
SALINITY %	0.01		N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.34		N/A	N/A	
TEMPERATURE C	12.8		N/A	N/A	
TURBIDITY NTU	927		N/A	N/A	

(a) - RB' e shown is based on Mercuric chloride.
N/A - N lable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW103
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW103 1 4GW1030001 2/16/99	04GW103 2 4GW1030002 4/22/99	04GW103 4 4GW1030004 11/9/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)						
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	0.36 J	1 U	0.27 J	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	75	0.47	C
ACETONE	2.2 B	5 UR	2.4 B	N/A	61	N
BENZENE	0.52 J	1 U	0.51 J	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	0.13 J	100	11	N
CHLOROETHANE	1 U	1 U	1 UJ	N/A	3.6	C
CHLOROFORM	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	0.44 J	1 U	0.12 J	70	6.1	N
ETHYLBENZENE	0.56 J	1 U	0.81 J	700	130	N
METHYLENE CHLORIDE	2 U	0.59 J	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	0.16 J	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	4.3	1 U	2.7	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1.6	1 U	2.2	10000	1200	N
SEMIVOLATILES (µg/L)						
2-METHYLNAPHTHALENE	2 J	2 J	3 J	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	1.8 J	3.6 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	1.2 J	1.1 J	2.1 J	N/A	0.65	N
PHENOL	5 U	5 U	0.59 J	N/A	2200	N
EXPLOSIVES (µg/L)						
2,4-DINITROTOLUENE	0.20 U	0.34 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)						
TPH-DIESEL			530 J	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW103
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW103 1 4GW1030001 2/16/99	04GW103 2 4GW1030002 4/22/99	04GW103 4 4GW1030004 11/9/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)						
ALUMINUM	172 B	169 B	480	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.4 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	2.9 K	50	0.045	C
BARIUM	69.5	68.4	59.5	2000	260	N
BERYLLIUM	0.10 U	0.11 B	0.10 U	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	16300	16800	22500	N/A	N/A	
CHROMIUM	17.2 K	5.7 B	18.7	100	11	N
COBALT	25.2	12.8	11.3	N/A	220	N
COPPER	3.0	2.4 U	1.8	1300	150	N
CYANIDE	10.0 U	1.1 U	1.2 U	200	73	N
IRON	13500	12500	15200	300	1100	N
LEAD	1.0 U	0.90 U	1.6 U	15	15	
MAGNESIUM	16700	17800	19400	N/A	N/A	
MANGANESE	897	933	977	50	73	N
MERCURY	0.20 UL	0.10 UL	0.07 UL	2	1.1 (a)	N
NICKEL	28.6	23.0 B	28.6	100	73	N
POTASSIUM	4020	3810	5850	N/A	N/A	
SELENIUM	3.0 B	2.0 U	3.0 U	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	100	18	N
SODIUM	18700	18900	19900	N/A	N/A	
THALLIUM	3.2 B	3.3 U	3.8 U	2	0.26	N
VANADIUM	2.8	5.1 U	2.9 U	N/A	26	N
ZINC	57.4	4.8 B	10.9 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)						
AMMONIA			200 U	N/A	21	N
DISSOLVED OXYGEN	8850			N/A	N/A	
PERCHLORATES	5 U		10 U	N/A	N/A	
PH	5.7			N/A	N/A	
SALINITY %	0.01			N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.371			N/A	N/A	
TEMPERATURE C	18			N/A	N/A	
TURBIDITY NTU	17			N/A	N/A	

(a) - RB[illegible]e shown is based on Mercuric chloride.
N/A - N[illegible]lable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW104
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW104 1 4GW1040001 2/18/99	04GW104 2 4GW1040002 4/27/99	04GW104 3 4GW1040003 7/30/99	04GW104 4 4GW1040004 11/3/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROETHANE	1 U	1 U	1 U	1 UJ	N/A	3.6	C
CHLOROFORM	1 U	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5 U	6.8 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	6.8 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	1.3 J	5 U	4.6 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	6.8 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	6.8 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	6.8 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW104
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW104 1 4GW1040001 2/18/99	04GW104 2 4GW1040002 4/27/99	04GW104 3 4GW1040003 7/30/99	04GW104 4 4GW1040004 11/3/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	2570	5990	2350	738	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.8 U	6	1.5	N
ARSENIC	2.3	7.2	2.1	2.4 U	50	0.045	C
BARIUM	116	125	90.8	53.9	2000	260	N
BERYLLIUM	0.14 B	0.29 B	0.19 B	0.10 U	4	7.3	N
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.2 U	5	3.7	N
CALCIUM	15100	14700	13800	9420	N/A	N/A	
CHROMIUM	8.8 B	36.7	4.6 L	2.3 U	100	11	N
COBALT	5.7	6.0	6.2 B	4.2	N/A	220	N
COPPER	5.1	16.6	5.4	6.6 B	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	2.8	200	73	N
IRON	6120	18100	3130	1770	300	1100	N
LEAD	4.1 B	13.2	3.9 B	1.3 U	15	15	
MAGNESIUM	16400	15900	13600	8730	N/A	N/A	
MANGANESE	232	222	189	129	50	73	N
MERCURY	3.3	3.3	2.8	1.4	2	1.1 (a)	N
NICKEL	7.5 U	10.6 B	8.8 U	6.6 U	100	73	N
POTASSIUM	1860 B	2120	2260 B	1220 K	N/A	N/A	
SELENIUM	2.9 B	2.0 U	2.9 K	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	2.8 B	2.2 U	100	18	N
SODIUM	15000	15400	13500	9240	N/A	N/A	
THALLIUM	4.6 B	3.4	4.5 B	7.9 B	2	0.26	N
VANADIUM	10.7 B	29.2	9.7 B	3.2	N/A	26	N
ZINC	12.1 B	34.5	13.0 B	18.5 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				100	N/A	21	N
DISSOLVED OXYGEN	4060				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	5.05				N/A	N/A	
SALINITY %	0.01				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.31				N/A	N/A	
TEMPERATURE C	12.3				N/A	N/A	
TURBIDITY NTU	900				N/A	N/A	

(a) - RB[illegible]e shown is based on Mercuric chloride.
N/A - N[illegible]lable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW105
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	04GW105	04GW105	04GW105	04GW105	04GW105	04GW105	04GW105	FEDERAL	REGION III RBC	TAP WATER
ROUND:	1	1	2	2	3	3	4	MCLs	FOR TAP WATER	BASIS
SAMPLE I.D.:	4GW1050001	4GW1050001-D	4GW1050002	4GW1050002-D	4GW1050003	4GW1050003-D	4GW1050004			
SAMPLE DATE:	2/17/99	2/17/99	4/29/99	4/29/99	7/29/99	7/29/99	11/5/99			
ASSOCIATED DUPLICATE:	4GW1050001-D	4GW1050001	4GW1050002-D	4GW1050002	4GW1050003-D	4GW1050003				
VOLATILES (µg/L)										
1,1,1-TRICHLOROETHANE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	330	330	350	330	290	340	380	N/A	0.053	C
1,1,2-TRICHLOROETHANE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	5	0.19	C
1,1-DICHLOROETHANE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	N/A	80	N
1,2-DICHLOROETHANE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	5	0.12	C
1,3-DICHLOROBENZENE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	N/A	0.55	N
1,4-DICHLOROBENZENE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	75	0.47	C
ACETONE	1000 UR	1000 UR	1000 UR	1000 UR	1000 UR	1000 UR	1000 UR	N/A	61	N
BENZENE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	5	0.36	C
BROMOMETHANE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	N/A	0.85	N
CARBON DISULFIDE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	N/A	100	N
CARBON TETRACHLORIDE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	5	0.16	C
CHLOROBENZENE	200 U	54 J	48 J	45 J	33 J	39 J	43 J	100	11	N
CHLOROETHANE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	N/A	3.6	C
CHLOROFORM	200 U	200 U	40 J	34 J	200 U	200 U	20 J	80	0.15	C
CHLOROMETHANE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	610	620	570	540	330	380	340	70	6.1	N
ETHYLBENZENE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	700	130	N
METHYLENE CHLORIDE	400 U	400 U	400 U	400 U	400 U	400 U	400 U	5	4.1	C
TETRACHLOROETHENE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	5	1.1	C
TOLUENE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	200 U	200 U	200 U	200 U	200 U	200 U	200 U	100	12	N
TRICHLOROETHENE	2800	2800	2300	2300	1200	1400	1400	5	1.6	C
VINYL CHLORIDE	64 J	66 J	73 J	76 J	47 J	59 J	200 U	2	0.019	C
XYLENES, TOTAL	200 U	200 U	200 U	200 U	200 U	200 U	200 U	10000	1200	N
SEMIVOLATILES (µg/L)										
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	1.5 B	1.4 B	5.7 B	4.9 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)										
2,4-DINITROTOLUENE	0.20 U	0.20 U	0.22 U	0.22 U	0.4 U	0.4 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.20 U	0.27 U	0.27 U	0.4 U	0.4 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.80	0.20 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.50 U	0.5 U	0.5 U	1 U	1 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.20 U	0.2 U	0.2 U	0.4 U	0.4 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.50 U	0.5 U	0.5 U	1 U	1 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)										
TPH-DIESEL							100 U	N/A	N/A	
INORGANICS (µg/L)										
ALUMINUM	22.8 B	27.3 B	27.2 B	26.0 B	29.4 U	29.4 U	22.9 B	50-200	3700	N
ANTIMONY	1.9 U	1.9 U	34.2 U	34.2 U	1.7 U	1.7 U	1.4 U	6	1.5	N
ARSENIC	1.5 U	1.5 U	2.1 B	1.3 U	1.1 U	1.1 U	2.9 U	50	0.045	C

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW105
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW105 1 4GW1050001 2/17/99 4GW1050001-D	04GW105 1 4GW1050001-D 2/17/99 4GW1050001	04GW105 2 4GW1050002 4/29/99 4GW1050002-D	04GW105 2 4GW1050002-D 4/29/99 4GW1050002	04GW105 3 4GW1050003 7/29/99 4GW1050003-D	04GW105 3 4GW1050003-D 7/29/99 4GW1050003	04GW105 4 4GW1050004 11/5/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
BARIUM	57.8	60.5	65.9	64.1	69.5	71.9	62.6	2000	260	N
BERYLLIUM	0.10 U	0.10 U	0.07 U	0.07 U	0.11 U	0.11 U	0.18 B	4	7.3	N
CADMIUM	2.7 UL	2.7 UL	3.0 U	3.0 U	3.0 UL	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	49200	51600	61200	60200	63200	65400	59300	N/A	N/A	
CHROMIUM	2.3 U	2.3 U	3.0 UL	3.0 UL	2.4 U	2.9 K	2.5	100	11	N
COBALT	32.8	37.8	5.9	6.7	4.9	6.5	7.2	N/A	220	N
COPPER	2.4 U	2.4 U	2.4 U	2.4 U	1.4 U	1.4 U	4.2 B	1300	150	N
CYANIDE	10.0 U	10.0 U	1.1 U	1.1 U	1.4 U	1.4 U	1.5 B	200	73	N
IRON	25000	26000	36200	35500	40000	41300	33300	300	1100	N
LEAD	1.0 U	1.0 U	0.92 U	0.92 U	1.0 UL	1.0 UL	1.6 U	15	15	
MAGNESIUM	15600	16100	19100	18700	20600	21300	19500	N/A	N/A	
MANGANESE	2200	2300	1470	1450	1470	1520	1330	50	73	N
MERCURY	0.20 UL	0.20 UL	0.10 U	0.10 U	0.10 UL	0.10 UL	0.07 U	2	1.1 (a)	N
NICKEL	16.1	14.8	5.9 U	5.9 U	8.8 U	8.8 U	6.6 U	100	73	N
POTASSIUM	3620	3960	4160	4050	4270	4650	4000	N/A	N/A	
SELENIUM	2.5 U	4.0 B	2.0 U	2.0 U	2.7 U	2.7 U	3.0 U	50	18	N
SILVER	2.8 U	2.8 U	3.3 U	3.3 U	2.2 U	2.2 U	2.2 U	100	18	N
SODIUM	31100	32000	18200	17600	13200	13600	10400	N/A	N/A	
THALLIUM	3.2 B	6.4 B	3.3 U	3.3 U	6.7 B	3.8 B	3.8 U	2	0.26	N
VANADIUM	2.1 U	2.1 U	5.1 U	5.1 U	2.4 U	2.4 U	2.9 U	N/A	26	N
ZINC	22.3	17.9	2.8 B	3.6 B	7.4	6.6	6.4 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)										
AMMONIA							580	N/A	21	N
DISSOLVED OXYGEN	2620							N/A	N/A	
PERCHLORATES	5 U	5 U			8 U	8 U	4 U	N/A	N/A	
PH	6.63							N/A	N/A	
SALINITY %	0.02							N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.601							N/A	N/A	
TEMPERATURE C	15.9							N/A	N/A	
TURBIDITY NTU	3.1							N/A	N/A	

(a) - RB shown is based on Mercuric chloride.
N/A - Nc able
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW106
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW106 1 4GW1060001 2/18/99	04GW106 2 4GW1060002 4/26/99	04GW106 3 4GW1060003 7/30/99	04GW106 4 4GW1060004 11/5/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROETHANE	1 U	1 U	1 U	1 U	N/A	3.6	C
CHLOROFORM	1 U	1 U	1 U	0.13 J	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	3.1 B	7.3 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW106
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW106 1 4GW1060001 2/18/99	04GW106 2 4GW1060002 4/26/99	04GW106 3 4GW1060003 7/30/99	04GW106 4 4GW1060004 11/5/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	159 B	162 B	175	71.2 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1 U	3.4 B	50	0.045	C
BARIUM	120	117	152	142	2000	260	N
BERYLLIUM	0.10 B	0.11 B	0.11 U	0.10 U	4	7.3	N
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	12800	13600	13800	10800	N/A	N/A	
CHROMIUM	20.0	4.2 B	35.0	4.5	100	11	N
COBALT	52.4	18.4	18.9	16.5	N/A	220	N
COPPER	7.3	4.6	4.7	3.7 B	1300	150	N
CYANIDE	10.0 U	1.5 B	1.4 U	1.2 U	200	73	N
IRON	5510	3290	12900	8800	300	1100	N
LEAD	1.0 U	0.90 U	1.0 UL	1.6	15	15	
MAGNESIUM	13100	15000	13700	11000	N/A	N/A	
MANGANESE	1250	777	1920	1500	50	73	N
MERCURY	2.3	2.7	0.22 B	0.16	2	1.1 (a)	N
NICKEL	19.3	11.7 B	37.1	9.7	100	73	N
POTASSIUM	1770 B	2020	2430	1780	N/A	N/A	
SELENIUM	2.8 B	2.0 U	3.4 B	3.0 U	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	12600	14600	14300	13800	N/A	N/A	
THALLIUM	2.9 U	3.3 U	6.0 B	3.9 B	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	12.1 B	6.1 B	9.3	5.6 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				100	N/A	21	N
DISSOLVED OXYGEN	3400				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	5.37				N/A	N/A	
SALINITY %	0.01				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.405				N/A	N/A	
TEMPERATURE C	16.7				N/A	N/A	
TURBIDITY NTU	9.7				N/A	N/A	

(a) - RBC [illegible] ue shown is based on Mercuric chloride.
N/A - N[illegible] iable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW107
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW107 1 4GW1070001 2/18/99	04GW107 2 4GW1070002 4/26/99	04GW107 3 4GW1070003 7/29/99	04GW107 4 4GW1070004 11/5/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1.6	1.7	1.7	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	0.25 J	0.27 J	0.22 J	1 U	N/A	15	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	75	0.47	C
ACETONE	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROETHANE	1 U	1 U	1 U	1 U	N/A	3.6	C
CHLOROFORM	1 U	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	0.4 J	0.44 J	0.23 J	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	8.1	9.9	8.6	5.1	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	1.4 J	2.6 B	1 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW107
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW107 1 4GW1070001 2/18/99	04GW107 2 4GW1070002 4/26/99	04GW107 3 4GW1070003 7/29/99	04GW107 4 4GW1070004 11/5/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	131 B	55.8 B	48.8	53.0 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.4 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1 U	2.9 U	50	0.045	C
BARIUM	45.2	43.7	46.2	39.4	2000	260	N
BERYLLIUM	0.10 U	0.07 U	0.11 U	0.10 U	4	7.3	N
CADMIUM	2.7 U	3.0 UL	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	19500	16500	17000	15100	N/A	N/A	
CHROMIUM	2.3 U	3.0 U	5.4 K	2.3 U	100	11	N
COBALT	12.3	9.0	9.7	10.4	N/A	220	N
COPPER	2.4 U	2.4 U	3.1	5.3 B	1300	150	N
CYANIDE	10.0 U	4.0 B	1.4 U	1.2 U	200	73	N
IRON	2260	2180	1910	656	300	1100	N
LEAD	1.0 U	0.90 U	1.0 UL	1.6 U	15	15	
MAGNESIUM	10900	10300	10500	9520	N/A	N/A	
MANGANESE	519	452	468	387	50	73	N
MERCURY	0.20 U	0.21 L	0.34 B	0.63	2	1.1 (a)	N
NICKEL	7.5 U	5.9 U	11.7	6.6 U	100	73	N
POTASSIUM	3620	2080	2140	1880	N/A	N/A	
SELENIUM	3.1 B	2.0 U	2.7 U	3.0 U	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	14600	12800	12600	10800	N/A	N/A	
THALLIUM	2.9 U	3.3 U	6.2 B	3.8 U	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	8.5 B	8.3 B	11.4	5.3 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200	N/A	21	N
DISSOLVED OXYGEN	2350				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	4.21				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.231				N/A	N/A	
TEMPERATURE C	14.1				N/A	N/A	
TURBIDITY NTU	5				N/A	N/A	

(a) - RBC 'ue shown is based on Mercuric chloride.
N/A - N lable
**All RBC ,alues have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW108
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW108 1 4GW1080001 2/18/99	04GW108 2 4GW1080002 4/29/99	04GW108 3 4GW1080003 7/30/99	04GW108 4 4GW1080004 11/8/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	0.45 J	1 U	1 U	75	0.47	C
ACETONE	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROETHANE	1 U	1 U	1 U	1 U	N/A	3.6	C
CHLOROFORM	0.58 B	0.99 J	1.1	1	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	2.3 B	5 U	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW108
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW108 1 4GW1080001 2/18/99	04GW108 2 4GW1080002 4/29/99	04GW108 3 4GW1080003 7/30/99	04GW108 4 4GW1080004 11/8/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	4720	1290	1070	339 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 U	1.7 U	1.4 U	6	1.5	N
ARSENIC	4.6	2.3 B	1.1 U	2.9 U	50	0.045	C
BARIUM	176	169	210	195	2000	260	N
BERYLLIUM	0.46 B	0.33 B	0.30 B	0.27 B	4	7.3	N
CADMIUM	2.7 U	3.0 U	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	6330	6610	7230	7140	N/A	N/A	
CHROMIUM	15.7 B	3.0 UL	2.4 U	2.3 U	100	11	N
COBALT	12.2	11.0	15.4	17.0	N/A	220	N
COPPER	16.5	9.0	6.9	4.8 B	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.5 B	200	73	N
IRON	10200	2370	1570	292	300	1100	N
LEAD	4.7 B	1.4	1.0 UL	1.6 U	15	15	
MAGNESIUM	10800	11000	11800	12600	N/A	N/A	
MANGANESE	138	140	181	171	50	73	N
MERCURY	0.20 U	0.10 U	0.10 UL	0.07 U	2	1.1 (a)	N
NICKEL	13.0	14.0	24.6	22.1	100	73	N
POTASSIUM	3090	5050	3850	3180	N/A	N/A	
SELENIUM	12.6 B	2.7	3.0 B	3.0 U	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	37800	35000	34600	38900	N/A	N/A	
THALLIUM	2.9 U	3.3 U	6.2 B	5.3 B	2	0.26	N
VANADIUM	32.1	7.5	5.4	2.9 U	N/A	26	N
ZINC	14.1	24.9 B	22.3	16.9 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				100	N/A	21	N
DISSOLVED OXYGEN	9850				N/A	N/A	
PERCHLORATES	5 U		4 U	16 U	N/A	N/A	
PH	2.95				N/A	N/A	
SALINITY %	0.01				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.289				N/A	N/A	
TEMPERATURE C	13.5				N/A	N/A	
TURBIDITY NTU	999				N/A	N/A	

(a) - RBC [illegible] ue shown is based on Mercuric chloride.
N/A - N[illegible] able
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW109
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW109 1 4GW1090001 2/16/99	04GW109 1 4GW1090001-D 2/16/99	04GW109 2 4GW1090002 4/29/99	04GW109 3 4GW1090003 8/2/99	04GW109 4 4GW1090004 11/10/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U	2 U	2 U	5 U	5 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	28	29	74	65	26	N/A	0.053	C
1,1,2-TRICHLOROETHANE	0.58 J	0.55 J	3.3	5.5	1 J	5	0.19	C
1,1-DICHLOROETHANE	1 U	2 U	2 U	5 U	5 U	N/A	80	N
1,2-DICHLOROETHANE	1 U	2 U	1.7 J	5.7 B	5 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	2 U	2 U	5 U	5 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	2 U	2 U	5 U	5 U	75	0.47	C
ACETONE	2.3 B	10 UR	10 UR	25 UR	25 UR	N/A	61	N
BENZENE	1 U	2 U	2 U	5 U	5 U	5	0.36	C
BROMOMETHANE	1 U	2 U	2 U	5 U	5 U	N/A	0.85	N
CARBON DISULFIDE	1 U	2 U	2 U	5 U	5 U	N/A	100	N
CARBON TETRACHLORIDE	1 U	2 U	2 U	5 U	5 U	5	0.16	C
CHLOROBENZENE	1 U	2 U	2 U	5 U	5 U	100	11	N
CHLOROETHANE	1 U	2 U	2 U	5 U	5 UJ	N/A	3.6	C
CHLOROFORM	0.86 J	0.84 J	0.62 J	5 U	5 U	80	0.15	C
CHLOROMETHANE	1 U	2 U	2 U	5 U	5 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	2.1	1.9 J	12	8.6	3 J	70	6.1	N
ETHYLBENZENE	1 U	2 U	2 U	5 U	5 U	700	130	N
METHYLENE CHLORIDE	2 U	4 U	4 U	10 U	10 U	5	4.1	C
TETRACHLOROETHENE	1.9	1.8 J	5.4	3.4 J	1.4 J	5	1.1	C
TOLUENE	1 U	2 U	2 U	5 U	5 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	3.1	3	17	8.4	2.3 J	100	12	N
TRICHLOROETHENE	6.1	5.8	24	14	5.5	5	1.6	C
VINYL CHLORIDE	1 U	2 U	0.42 J	5 U	5 U	2	0.019	C
XYLENES, TOTAL	1 U	2 U	2 U	5 U	5 U	10000	1200	N
SEMIVOLATILES (µg/L)								
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5 U	5 U	5 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	3.1 B	1.3 J	6	4.8	C
FLUORENE	5 U	5 U	5 U	5 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	N/A	0.65	N
PHENOL	5 U	5 U	5 U	5 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)								
2,4-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
NITROBENZENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	0.67	0.64	0.55	0.99	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)								
TPH-DIESEL					100 UJ	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW109
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW109 1 4GW1090001 2/16/99	04GW109 1 4GW1090001-D 2/16/99	04GW109 2 4GW1090002 4/29/99	04GW109 3 4GW1090003 8/2/99	04GW109 4 4GW1090004 11/10/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)								
ALUMINUM	45.0 B	41.4 B	4460	3400	533	50-200	3700	N
ANTIMONY	1.9 U	1.9 U	34.2 U	1.7 U	1.4 U	6	1.5	N
ARSENIC	1.5 U	1.5 U	6.2 B	2.9	2.9 U	50	0.045	C
BARIUM	100	38.4	74.2	50.1	32.5	2000	260	N
BERYLLIUM	0.10 U	0.10 U	0.18 B	0.23 B	0.10 U	4	7.3	N
CADMIUM	2.7 UL	2.7 UL	3.0 U	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	2230	2030	2140	3680	2350	N/A	N/A	
CHROMIUM	10.2 B	10.6 B	313	57.3	4.0	100	11	N
COBALT	30.2	30.6	58.6	11.1 B	11.3	N/A	220	N
COPPER	7.3	5.2	60.5	25.0	2.1	1300	150	N
CYANIDE	10.0 U	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	6770	6720	27300	25300	16000	300	1100	N
LEAD	1.0 U	1.0 U	7.8	8.3 B	1.6 U	15	15	
MAGNESIUM	1890	1860	2780	3290	1710	N/A	N/A	
MANGANESE	465	440	550	903	743	50	73	N
MERCURY	0.20 UL	0.20 UL	0.40 B	0.10 UL	0.07 UL	2	1.1 (a)	N
NICKEL	16.8	16.7	289	41.6	8.4	100	73	N
POTASSIUM	2430 B	1810 B	2460	3330	1960	N/A	N/A	
SELENIUM	2.5 U	2.5 U	24.0	12.6	3.0 U	50	18	N
SILVER	2.8 U	2.8 U	10.9	3.3 B	2.2 U	100	18	N
SODIUM	13300	13600	27100	24300	14500	N/A	N/A	
THALLIUM	2.9 U	3.8 B	3.3 U	5.1 B	3.8 U	2	0.26	N
VANADIUM	2.1 U	2.1 U	21.7	14.2 B	2.9 U	N/A	26	N
ZINC	40.4	37.3	30.4	17.7 B	9.9 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)								
AMMONIA					200 U	N/A	21	N
DISSOLVED OXYGEN	4070					N/A	N/A	
PERCHLORATES	5 U	5 U		4 U	4 U	N/A	N/A	
PH	5.76					N/A	N/A	
SALINITY %	0					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.127					N/A	N/A	
TEMPERATURE C	16.9					N/A	N/A	
TURBIDITY NTU	8					N/A	N/A	

(a) - RF ue shown is based on Mercuric chloride.
N/A - N ilable
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW110
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW110 1 4GW1100001 2/21/99	04GW110 2 4GW1100002 5/4/99	04GW110 3 4GW1100003 8/3/99	04GW110 4 4GW1100004 11/4/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1.0 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1.0 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1.0 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1.0 U	1 U	1 U	1 U	N/A	80	N
1,2-DICHLOROETHANE	0.44 J	1 U	1.5	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1.0 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1.0 U	1 U	1 U	1 U	75	0.47	C
ACETONE	4.0 B	5 UR	4.4 B	5 UR	N/A	61	N
BENZENE	1.0 U	1 U	0.15 J	1 U	5	0.36	C
BROMOMETHANE	1.0 U	1 U	1 U	1 U	N/A	0.85	N
CARBON DISULFIDE	1.0 U	1 U	0.65 J	1 U	N/A	100	N
CARBON TETRACHLORIDE	1.0 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1.0 U	1 U	1 U	1 U	100	11	N
CHLOROETHANE	1.0 U	1 U	1 U	1 UJ	N/A	3.6	C
CHLOROFORM	1.0 U	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1.0 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	0.63 J	3	3.6	5.5	70	6.1	N
ETHYLBENZENE	1.0 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2.0 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1.0	7.2	5.4	8.1	5	1.1	C
TOLUENE	1.0 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	0.21 J	100	12	N
TRICHLOROETHENE	1.0	5.6	3.1	8.3	5	1.6	C
VINYL CHLORIDE	1.0 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1.0 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2-METHYLNAPHTHALENE	5 U	5.4 U	6.4 U	5 U	N/A	12	N
ACENAPHTHENE	5 U	5.4 U	6.4 U	5 U	N/A	37	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5.4 U	44	5 U	6	4.8	C
FLUORENE	5 U	5.4 U	6.4 U	5 U	N/A	24	N
NAPHTHALENE	5 U	5.4 U	6.4 U	5 U	N/A	0.65	N
PHENOL	5 U	5.4 U	6.4 U	5 U	N/A	2200	N
EXPLOSIVES (µg/L)							
2,4-DINITROTOLUENE	0.40 U	0.2 U	0.2 U	0.2 U	N/A	7.3	N
2,6-DINITROTOLUENE	0.40 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.40 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.40 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	1.0 U	3.5	0.5 U	6.1	N/A	180	N
NITROBENZENE	0.40 U	0.2 U	0.2 U	0.2 U	N/A	0.35	N
RDX	1.0 U	2	0.5 U	2.1	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N)

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #04GW110
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	04GW110 1 4GW1100001 2/21/99	04GW110 2 4GW1100002 5/4/99	04GW110 3 4GW1100003 8/3/99	04GW110 4 4GW1100004 11/4/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	2170	683	1440	167 B	50-200	3700	N
ANTIMONY	3.0 K	34.2 UL	1.7 U	1.4 U	6	1.5	N
ARSENIC	3.7 B	1.3 U	1.3	2.9 U	50	0.045	C
BARIUM	59.7	44.5	56.8	74.4	2000	260	N
BERYLLIUM	0.18 B	0.07 U	0.10 U	0.10 U	4	7.3	N
CADMIUM	2.7 UJ	3.0 U	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	18600	10900	19400	8810	N/A	N/A	
CHROMIUM	5.8 B	3.0 U	2.4 UL	2.3 U	100	11	N
COBALT	62.4	44.4	31.1	97.8	N/A	220	N
COPPER	12.2	8.9	16.1	6.9	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.9 B	200	73	N
IRON	30100 J	10900	17700	2770	300	1100	N
LEAD	4.3	0.92 U	2.6 B	1.6 U	15	15	
MAGNESIUM	13900	7550	13300	8140	N/A	N/A	
MANGANESE	5680	2150	6170	1380	50	73	N
MERCURY	0.20 U	0.10 U	0.10 UL	0.07 U	2	1.1 (a)	N
NICKEL	7.5 U	18.4	13.6	81.0	100	73	N
POTASSIUM	12500	7730	13100	6640	N/A	N/A	
SELENIUM	2.9	5.1	8.5 K	3.6 K	50	18	N
SILVER	2.8 U	3.3 U	2.8 B	2.2 U	100	18	N
SODIUM	152000	73600	204000	48700	N/A	N/A	
THALLIUM	4.4 B	3.3 U	10.2 B	3.8 U	2	0.26	N
VANADIUM	8.0 B	5.1 U	4.3 B	2.9 U	N/A	26	N
ZINC	13.7	18.8	13.6 B	32.7 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				100	N/A	21	N
DISSOLVED OXYGEN					N/A	N/A	
PERCHLORATES	5 U		20 U	10 U	N/A	N/A	
PH					N/A	N/A	
SALINITY %					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM					N/A	N/A	
TEMPERATURE C					N/A	N/A	
TURBIDITY NTU					N/A	N/A	

(a) - RBC e shown is based on Mercuric chloride.
N/A - N able
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SECTION D-4

WITHIN-WELL COMPARISON OF ANALYTICAL DATA FOR ROUNDS 1, 2, 3 AND 4

SITE 7

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW08
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	07GW08	07GW08	07GW08	07GW08	07GW08	07GW08	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
ROUND:	1	2	2	3	3	4			
SAMPLE I.D.:	7GW080001	7GW080002	7GW080002-D	7GW080003	7GW080003-D	7GW080004			
SAMPLE DATE:	1/26/99	4/6/99	4/6/99	7/12/99	7/12/99	10/7/99			
ASSOCIATED DUPLICATE:		7GW080002-D	7GW080002	7GW080003-D	7GW080003				
VOLATILES (µg/L)									
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	N/A	80	N
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	75	0.47	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	80	0.17	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	0.58 J	0.45 J	0.43 J	0.95 J	0.83 J	0.27 B	80	0.15	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	70	6.1	N
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)									
2,4-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5.0 U	N/A	7.3	N
2,6-DINITROTOLUENE	1.3 J	5 U	5 U	5 U	2 J	5.0 U	N/A	3.7	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	2.7 B	2.4 B	2.1 B	9 B	5.0 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5.0 U	N/A	370	N
PESTICIDES/PCBs (µg/L)									
ALPHA-CHLORDANE	0.054 U	0.050 U	0.050 U	0.050 UL	0.050 U	0.050 UR	2	0.19	C
GAMMA-BHC (LINDANE)	0.054 U	0.050 U	0.050 U	0.050 UL	0.050 U	0.050 UR	0.2	0.052	C
GAMMA-CHLORDANE	0.054 U	0.050 U	0.050 U	0.050 UL	0.050 U	0.050 UR	2	0.19	C
EXPLOSIVES (µg/L)									
1,3,5-TRINITROBENZENE	10 U	8 U	8 U	15 U	15 U	10 U	N/A	110	N
2,4,6-TRINITROTOLUENE	210	140	150	240	210	180	N/A	2.2	C
2-AMINO-4,6-DINITROTOLUENE	62	40	42	70	58	64	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	110	65	69	110	89	100	N/A	0.22	N
HMX	130	87	91	160	150	170	N/A	180	N
RDX	510	320	330	530	470	440	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)									
TPH-DIESEL						330	N/A	N/A	
INORGANICS (µg/L)									
ALUMINUM	191 B	185 J	147 B	125	239	1290	50-200	3700	N
ARSENIC	1.5 U	2.5 B	1.7 B	1.1 U	1.1 U	3.3 U	50	0.045	C
BARIUM	40.7	40.5	40.1	34.8	36.8	37.6	2000	260	N
CALCIUM	4380	5300	5350	4370	4620	3950	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW08
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07GW08 1 7GW080001 1/26/99	07GW08 2 7GW080002 4/6/99 7GW080002-D	07GW08 2 7GW080002-D 4/6/99 7GW080002	07GW08 3 7GW080003 7/12/99 7GW080003-D	07GW08 3 7GW080003-D 7/12/99 7GW080003	07GW08 4 7GW080004 10/7/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
CHROMIUM	26.5	21.2 J	14.9 J	21.1	31.9	51.0	100	11	N
COBALT	6.5 B	3.8	4.9	3.8 U	4.0	1.9	N/A	220	N
COPPER	10.8 B	5.4 J	4.8 J	6.7	8.5	1.3 U	1300	150	N
IRON	906	585 J	407 J	350 J	559 J	704	300	1100	N
LEAD	3.1	0.92 U	0.92 U	1.0 U	1.0	1.7 U	15	15	
MAGNESIUM	4350	5060 J	5010 J	4300	4540	3810	N/A	N/A	
MANGANESE	26.4	23.9 J	24.0 J	19.0	20.6	19.8	50	73	N
MERCURY	0.20 U	0.10 UL	0.10 UL	0.10 U	0.10 U	0.09	2	1.1 (a)	N
NICKEL	153	17.6	12.0	17.1	21.3	38.2	100	73	N
POTASSIUM	1830 B	1830 J	1620 J	1510	1650	1490	N/A	N/A	
SELENIUM	2.5 UL	2.0 U	2.0 U	2.7 U	2.7 U	3.8 U	50	18	N
SODIUM	3890	5210	5160	3960	4190	3450	N/A	N/A	
THALLIUM	2.9 U	3.3 U	3.4 B	3.7 U	3.7 U	4.3 UL	2	0.26	N
VANADIUM	5.1 B	5.1 U	5.1 U	2.4 U	2.4 U	6.5	N/A	26	N
ZINC	11.0 B	16.9 J	17.2 J	12.5	21.3	10.8 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)									
AMMONIA						300 K	N/A	21	N
DISSOLVED OXYGEN	6670						N/A	N/A	
PERCHLORATES	15.3			14	16	12 J	N/A	N/A	
PH	5.06						N/A	N/A	
SALINITY %	0						N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.084						N/A	N/A	
TEMPERATURE C	14.5						N/A	N/A	
TURBIDITY NTU	359						N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB[illegible]ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW41
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	07GW41	07GW41	07GW41	07GW41	07GW41	07GW41	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
ROUND:	1	1	2	3	3	4			
SAMPLE I.D.:	7GW410001	7GW410001-D	7GW410002	7GW410003	7GW410003-D	7GW410004			
SAMPLE DATE:	1/23/99	1/23/99	4/7/99	7/13/99	7/13/99	10/6/99			
ASSOCIATED DUPLICATE:	7GW410001-D	7GW410001		7GW410003-D	7GW410003				
VOLATILES (µg/L)									
1,1,1-TRICHLOROETHANE	1.2	20 U	20 U	20 U	20 U	10 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	77	69	37	27	25	9.5 J	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1.3	20 U	20 U	20 U	20 U	10 U	5	0.19	C
1,1-DICHLOROETHANE	0.41 J	20 U	20 U	20 U	20 U	10 U	N/A	80	N
1,1-DICHLOROETHENE	0.3 J	20 U	20 U	20 U	20 U	10 U	7	0.044	C
1,2-DICHLOROETHANE	1.8	20 U	20 U	20 U	20 U	10 U	5	0.12	C
1,3-DICHLOROBENZENE	0.35 J	20 U	20 U	20 U	20 U	10 U	N/A	0.55	N
1,4-DICHLOROBENZENE	0.26 J	20 U	20 U	20 U	20 U	10 U	75	0.47	C
BROMODICHLOROMETHANE	1 U	20 U	20 U	20 U	20 U	10 U	80	0.17	C
CHLOROBENZENE	1 U	20 U	20 U	20 U	4.2 J	10 U	100	11	N
CHLOROFORM	0.47 J	20 U	20 U	20 U	20 U	10 U	80	0.15	C
CIS-1,2-DICHLOROETHENE	43	38	29	21	21	9.3 J	70	6.1	N
TETRACHLOROETHENE	0.63 J	20 U	20 U	20 U	20 U	10 U	5	1.1	C
TOLUENE	1 U	20 U	20 U	20 U	20 U	10 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	0.34 J	20 U	20 U	20 U	20 U	10 U	100	12	N
TRICHLOROETHENE	370	350	280 J	180	170	85	5	1.6	C
VINYL CHLORIDE	1.6	20 U	20 U	20 U	20 U	10 U	2	0.019	C
XYLENES, TOTAL	1 U	20 U	20 U	20 U	20 U	10 U	10000	1200	N
SEMIVOLATILES (µg/L)									
2,4-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5.0 U	N/A	7.3	N
2,6-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5.0 U	N/A	3.7	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	1.9 B	6.2 B	4.2 B	1.0 B	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5.0 U	N/A	370	N
PESTICIDES/PCBs (µg/L)									
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	2	0.19	C
GAMMA-BHC (LINDANE)	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.2	0.052	C
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	2	0.19	C
EXPLOSIVES (µg/L)									
1,3,5-TRINITROBENZENE	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	110	N
2,4,6-TRINITROTOLUENE	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)									
TPH-DIESEL						100 U	N/A	N/A	
INORGANICS (µg/L)									
ALUMINUM	554 K	314 K	101 B	83.0	67.5	422 B	50-200	3700	N
ARSENIC	1.5 U	2.8	2.3 B	1.1 U	1.1 U	3.3 U	50	0.045	C
BARIUM	53.9	53.8	48.8	47.8	49.5	50.8	2000	260	N
CALCIUM	16000	16400	15600	14400	15000	14300	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW41
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07GW41 1 7GW410001 1/23/99 7GW410001-D	07GW41 1 7GW410001-D 1/23/99 7GW410001	07GW41 2 7GW410002 4/7/99	07GW41 3 7GW410003 7/13/99 7GW410003-D	07GW41 3 7GW410003-D 7/13/99 7GW410003	07GW41 4 7GW410004 10/6/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
CHROMIUM	22.4	9.6	5.0 J	5.3	6.3	6.0	100	11	N
COBALT	21.8	9.0	3.1	3.8 U	3.8 U	2.1	N/A	220	N
COPPER	9.1 B	7.4 B	9.9 J	5.6	6.3	1.3 U	1300	150	N
IRON	3060 J	2350 J	1650 J	445 J	358 J	601	300	1100	N
LEAD	1.0 U	1.0 U	0.92 U	1.0 U	1.0 U	1.7 U	15	15	
MAGNESIUM	11200	11400	10600 J	10000	10400	9410	N/A	N/A	
MANGANESE	111	109	103 J	97.7	101	104	50	73	N
MERCURY	3.7	3.8	1.1	0.84	0.69	1.1	2	1.1 (a)	N
NICKEL	7.7	7.5 U	7.0	10.0	8.8 U	5.8	100	73	N
POTASSIUM	1490	1500	1700 J	1960	1940	1600	N/A	N/A	
SELENIUM	4.9 J	4.1 J	2.0 U	2.7 U	2.7 U	3.8 U	50	18	N
SODIUM	10800	10800	11500	11400	11900	10700	N/A	N/A	
THALLIUM	3.8	2.9 U	3.8 B	3.7 U	3.7 U	4.3 UL	2	0.26	N
VANADIUM	3.9 B	3.9 B	5.1 U	2.4 U	2.4 U	1.4 U	N/A	26	N
ZINC	14.4	20.6	10.6 B	26.6	32.5	15.4 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)									
AMMONIA						200 U	N/A	21	N
DISSOLVED OXYGEN	3300						N/A	N/A	
PERCHLORATES	5.27 L	5 UL		8 U	4 U	8 U	N/A	N/A	
PH	5.9						N/A	N/A	
SALINITY %	0						N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.244						N/A	N/A	
TEMPERATURE C	17.5						N/A	N/A	
TURBIDITY NTU	336						N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC [illegible]es have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07PZ42
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07PZ42 1 7GW420001 1/27/99	07PZ42 2 7GW420002 4/6/99	07PZ42 3 7GW420003 7/12/99	07PZ42 4 7GW420004 10/7/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	75	0.47	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1 U	1 U	0.16 J	0.69 J	80	0.15	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1.6	0.79 J	0.42 J	1 U	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2,4-DINITROTOLUENE	5 U	5 U	5 U	5 U	N/A	7.3	N
2,6-DINITROTOLUENE	5 U	5 U	5 U	5 U	N/A	3.7	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	2.3 B	2 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
ALPHA-CHLORDANE	0.056 UJ	0.050 U	0.050 UJ	0.050 U	2	0.19	C
GAMMA-BHC (LINDANE)	0.056 UJ	0.050 U	0.050 UJ	0.050 U	0.2	0.052	C
GAMMA-CHLORDANE	0.056 UJ	0.050 U	0.050 UJ	0.050 U	2	0.19	C
EXPLOSIVES (µg/L)							
1,3,5-TRINITROBENZENE	0.20 U	0.20 U	0.2 U	0.2 U	N/A	110	N
2,4,6-TRINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	N/A	2.2	C
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.50 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.50 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				210	N/A	N/A	
INORGANICS (µg/L)							
ALUMINUM	390 B	652 J	95.8	663 B	50-200	3700	N
ARSENIC	1.5 U	3.2 B	1.1 U	3.3 UL	50	0.045	C
BARIUM	63.8	69.1	72.3	74.4	2000	260	N
CALCIUM	8990	11000	11900	11700	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07PZ42
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07PZ42 1 7GW420001 1/27/99	07PZ42 2 7GW420002 4/6/99	07PZ42 3 7GW420003 7/12/99	07PZ42 4 7GW420004 10/7/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
CHROMIUM	3.2 B	7.0 J	6.7	12.0 L	100	11	N
COBALT	11.1 B	13.1	3.8 U	5	N/A	220	N
COPPER	4.8 B	7.9 J	4.1	1.3 U	1300	150	N
IRON	704	1450 J	115 J	769	300	1100	N
LEAD	1.0 U	0.92 U	1.0 U	1.7 UL	15	15	
MAGNESIUM	9110	10400 J	11300	10400	N/A	N/A	
MANGANESE	106	126 J	137	145	50	73	N
MERCURY	5.5	6.9	7.2	4.0	2	1.1 (a)	N
NICKEL	7.5 U	5.9 U	8.8 U	9.5	100	73	N
POTASSIUM	1480 B	1650 J	1800	1740	N/A	N/A	
SELENIUM	2.5 UL	3.0 K	2.7 U	3.8 UL	50	18	N
SODIUM	11800	13200	12800	11700	N/A	N/A	
THALLIUM	2.9 U	4.0 B	3.7 U	4.3 UJ	2	0.26	N
VANADIUM	2.4 B	5.1 U	2.4 U	1.8	N/A	26	N
ZINC	10.6 B	14.1 J	17.5	1.9 U	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 K	N/A	21	N
DISSOLVED OXYGEN	5610				N/A	N/A	
PERCHLORATES	5 U		4 U	8 U	N/A	N/A	
PH	4.64				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.195				N/A	N/A	
TEMPERATURE C	13				N/A	N/A	
TURBIDITY NTU	999				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RF ies have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW43
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07GW43 1 7GW430001 2/1/99	07GW43 2 7GW430002 4/7/99	07GW43 3 7GW430003 7/12/99	07GW43 4 7GW430004 10/7/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	100 U	100 U	50 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	6.5	100 U	100 U	50 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	0.46 J	100 U	100 U	50 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	100 U	100 U	50 U	N/A	80	N
1,1-DICHLOROETHENE	1.5	100 U	100 U	50 U	7	0.044	C
1,2-DICHLOROETHANE	0.93 J	100 U	100 U	50 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	100 U	100 U	50 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	100 U	100 U	50 U	75	0.47	C
BROMODICHLOROMETHANE	1 U	100 U	100 U	50 U	80	0.17	C
CHLOROBENZENE	0.42 J	100 U	100 U	50 U	100	11	N
CHLOROFORM	1.2	100 U	100 U	50 U	80	0.15	C
CIS-1,2-DICHLOROETHENE	39	40 J	44 J	19 J	70	6.1	N
TETRACHLOROETHENE	0.53 J	100 U	100 U	50 U	5	1.1	C
TOLUENE	1 U	100 U	100 U	50 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	0.46 J	100 U	100 U	50 U	100	12	N
TRICHLOROETHENE	370	710 J	710	390	5	1.6	C
VINYL CHLORIDE	0.36 J	100 U	100 U	50 U	2	0.019	C
XYLENES, TOTAL	1 U	100 U	100 U	50 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2,4-DINITROTOLUENE	5 U	5 U	5 U	5 U	N/A	7.3	N
2,6-DINITROTOLUENE	5 U	5 U	5 U	5 U	N/A	3.7	N
BIS(2-ETHYLHEXYL)PHTHALATE	1.1 J	3.5 B	2.5 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
ALPHA-CHLORDANE	0.052 U	0.050 U	0.050 U	0.050 U	2	0.19	C
GAMMA-BHC (LINDANE)	0.052 U	0.050 U	0.050 U	0.050 U	0.2	0.052	C
GAMMA-CHLORDANE	0.052 U	0.050 U	0.050 U	0.050 U	2	0.19	C
EXPLOSIVES (µg/L)							
1,3,5-TRINITROBENZENE	0.20 U	0.20 U	0.2 U	0.2 U	N/A	110	N
2,4,6-TRINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	N/A	2.2	C
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.57	0.50 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.50 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				100 U	N/A	N/A	
INORGANICS (µg/L)							
ALUMINUM	251 B	1210 J	668	1810 K	50-200	3700	N
ARSENIC	1.5 U	4.4 B	1.1 U	3.3 UL	50	0.045	C
BARIUM	48.2	62.8	45.2	44.6	2000	260	N
CALCIUM	4760	6870	5140	4980	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW43
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07GW43 1 7GW430001 2/1/99	07GW43 2 7GW430002 4/7/99	07GW43 3 7GW430003 7/12/99	07GW43 4 7GW430004 10/7/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
CHROMIUM	18.2 K	41.0 J	21.5	12.4 L	100	11	N
COBALT	10.8 B	12.6	10.0	6.0	N/A	220	N
COPPER	6.8 B	13.3 J	8.3	3.2	1300	150	N
IRON	1740	5810 J	3450 J	4640	300	1100	N
LEAD	1.0 U	1.9 J	2.1	1.7 UL	15	15	
MAGNESIUM	6730	8440 J	6370	5870	N/A	N/A	
MANGANESE	139	141 J	92.0	77.2	50	73	N
MERCURY	0.55	0.96	0.46	0.26	2	1.1 (a)	N
NICKEL	15.3	31.3	16.2	9.5	100	73	N
POTASSIUM	2200 B	1920 J	2100	1670	N/A	N/A	
SELENIUM	2.5 UL	2.0 U	2.7 U	3.8 UL	50	18	N
SODIUM	15800	20700	15400	12400	N/A	N/A	
THALLIUM	2.9 U	4.4 B	3.7 U	4.3 UJ	2	0.26	N
VANADIUM	2.1 U	8.7 J	2.6	6.7	N/A	26	N
ZINC	8.6 B	16.1 J	11.8	1.9 K	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	4780				N/A	N/A	
PERCHLORATES	5 U		4 U	8 U	N/A	N/A	
PH	5.37				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.178				N/A	N/A	
TEMPERATURE C	15.1				N/A	N/A	
TURBIDITY NTU	376				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB[illegible]ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW101
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07GW101 1 7GW1010001 1/26/99	07GW101 2 7GW1010002 4/6/99	07GW101 3 7GW1010003 7/12/99	07GW101 4 7GW1010004 10/7/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	75	0.47	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	0.32 J	0.22 J	0.33 J	0.3 B	80	0.15	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	0.28 J	1 U	1 U	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2,4-DINITROTOLUENE	5 U	5 U	5 U	5.0 U	N/A	7.3	N
2,6-DINITROTOLUENE	5 U	5 U	5 U	5.0 U	N/A	3.7	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	1.9 B	6.9 B	5.0 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5.0 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
ALPHA-CHLORDANE	0.058 U	0.040 J	0.041 J	0.038 J	2	0.19	C
GAMMA-BHC (LINDANE)	0.058	0.050 U	0.050 UJ	0.050 U	0.2	0.052	C
GAMMA-CHLORDANE	0.058 U	0.049 J	0.049 J	0.038 J	2	0.19	C
EXPLOSIVES (µg/L)							
1,3,5-TRINITROBENZENE	0.20 U	0.20 U	0.2 U	0.2 U	N/A	110	N
2,4,6-TRINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.22	N/A	2.2	C
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.35	0.26	0.39	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20	0.39	0.28	0.37	N/A	0.22	N
HMX	2.9	3	2	2.7	N/A	180	N
RDX	2.7	4.9	3.5	4.9	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				100 U	N/A	N/A	
INORGANICS (µg/L)							
ALUMINUM	202 B	67.3 B	121	273 B	50-200	3700	N
ARSENIC	1.5 U	2.1 B	1.1 U	3.3 U	50	0.045	C
BARIUM	46.2	42.0	43.4	47.7	2000	260	N
CALCIUM	4640	5140	5010	4900	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW101
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07GW101 1 7GW1010001 1/26/99	07GW101 2 7GW1010002 4/6/99	07GW101 3 7GW1010003 7/12/99	07GW101 4 7GW1010004 10/7/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
CHROMIUM	10.0 B	5.2 J	4.7	3.3	100	11	N
COBALT	3.6 B	9.3	6.6	1.3	N/A	220	N
COPPER	5.4 B	3.7 J	6.1	1.3 U	1300	150	N
IRON	2860	381 J	532 J	200 K	300	1100	N
LEAD	1.0 U	0.92 U	1.0 U	1.7 U	15	15	
MAGNESIUM	5110	5180 J	5370	5030	N/A	N/A	
MANGANESE	37.8	28.1 J	23.3	24.7	50	73	N
MERCURY	0.20 U	0.10 UL	0.10 K	0.07	2	1.1 (a)	N
NICKEL	14.4	5.9 U	8.8 U	6.2	100	73	N
POTASSIUM	1940 B	1480 J	1770	1510	N/A	N/A	
SELENIUM	2.5 UL	2.0 U	2.7 U	3.8 U	50	18	N
SODIUM	5650	5520	5270	4800	N/A	N/A	
THALLIUM	2.9 U	3.3 U	3.7 U	4.4 B	2	0.26	N
VANADIUM	3.8 B	5.1 U	2.4 U	1.4 U	N/A	26	N
ZINC	18.9 K	18.7 J	17.8	11.2 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	2940				N/A	N/A	
PERCHLORATES	5.19		9.4	8 U	N/A	N/A	
PH	4.76				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.152				N/A	N/A	
TEMPERATURE C	13.6				N/A	N/A	
TURBIDITY NTU	227				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB es have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW102
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07GW102 1 7GW1020001 1/25/99 7GW1020001-D	07GW102 1 7GW1020001-D 1/25/99 7GW1020001	07GW102 2 7GW1020002 4/7/99	07GW102 3 7GW1020003 7/13/99	07GW102 4 7GW1020004 10/6/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	39	37	22	18	15	N/A	0.053	C
1,1,2-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	5	0.19	C
1,1-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	N/A	80	N
1,1-DICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	7	0.044	C
1,2-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	5	0.12	C
1,3-DICHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	N/A	0.55	N
1,4-DICHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	75	0.47	C
BROMODICHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	80	0.17	C
CHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	100	11	N
CHLOROFORM	10 U	10 U	10 U	10 U	10 U	80	0.15	C
CIS-1,2-DICHLOROETHENE	27	21	16	12	17	70	6.1	N
TETRACHLOROETHENE	10 U	10 U	10 U	10 U	10 U	5	1.1	C
TOLUENE	10 U	10 U	10 U	10 U	10 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	100	12	N
TRICHLOROETHENE	240	160	150 J	100	150	5	1.6	C
VINYL CHLORIDE	10 U	10 U	10 U	10 U	10 U	2	0.019	C
XYLENES, TOTAL	10 U	10 U	10 U	10 U	10 U	10000	1200	N
SEMIVOLATILES (µg/L)								
2,4-DINITROTOLUENE	5 U	5 U	5 U	5 U	5.0 U	N/A	7.3	N
2,6-DINITROTOLUENE	5 U	5 U	5 U	5 U	5.0 U	N/A	3.7	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	3.4 B	2 B	1.0 B	6	4.8	C
DI-N-BUTYL PHTHALATE	1.1 J	1.9 J	5 U	5 U	5.0 U	N/A	370	N
PESTICIDES/PCBs (µg/L)								
ALPHA-CHLORDANE	0.054 U	0.054 U	0.050 U	0.050 U	0.050 U	2	0.19	C
GAMMA-BHC (LINDANE)	0.054 U	0.054 U	0.050 U	0.050 U	0.050 U	0.2	0.052	C
GAMMA-CHLORDANE	0.054 U	0.054 U	0.050 U	0.050 U	0.050 U	2	0.19	C
EXPLOSIVES (µg/L)								
1,3,5-TRINITROBENZENE	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	N/A	110	N
2,4,6-TRINITROTOLUENE	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	N/A	2.2	C
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U	N/A	180	N
RDX	1.6	1.4	0.50 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)								
TPH-DIESEL					140	N/A	N/A	
INORGANICS (µg/L)								
ALUMINUM	1010 K	419 K	176 B	1990	659	50-200	3700	N
ARSENIC	1.9	1.5 U	2.5 B	3.4 B	3.3 U	50	0.045	C
BARIUM	54.2	54.9	56.8	69.2	62.2	2000	260	N
CALCIUM	11000	11300	11300	10600	10700	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW102
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07GW102 1 7GW1020001 1/25/99 7GW1020001-D	07GW102 1 7GW1020001-D 1/25/99 7GW1020001	07GW102 2 7GW1020002 4/7/99	07GW102 3 7GW1020003 7/13/99	07GW102 4 7GW1020004 10/6/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
CHROMIUM	51.5	59.0	10.5 J	27.2	15.5	100	11	N
COBALT	13.5	25.0	7.2	3.8 U	8.7	N/A	220	N
COPPER	8.9 B	6.1 B	7.4 J	6.2	3.5	1300	150	N
IRON	3780 J	2030 J	722 J	9070 J	615	300	1100	N
LEAD	1.0 U	1.0 U	0.92 U	2.8	1.7 U	15	15	
MAGNESIUM	9120	9460	9470 J	9280	8930	N/A	N/A	
MANGANESE	126	125	120 J	126	111	50	73	N
MERCURY	1.2	1.0	0.29 L	1.4	1.0	2	1.1 (a)	N
NICKEL	32.2	41.4	12.3	8.8 U	13.2	100	73	N
POTASSIUM	1330	1300	1880 J	1780	1520	N/A	N/A	
SELENIUM	3.4 J	3.4 J	2.6 K	2.7 U	4.0 K	50	18	N
SODIUM	11400	11600	12200	11100	10500	N/A	N/A	
THALLIUM	3.2	2.9 U	3.3 U	3.7 U	4.3 UL	2	0.26	N
VANADIUM	9.2 B	4.1 B	5.1 U	18.2	2.6	N/A	26	N
ZINC	16.6	21.4	14.0 J	27.6	14.2 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)								
AMMONIA					200 U	N/A	21	N
DISSOLVED OXYGEN	3380					N/A	N/A	
PERCHLORATES	5 UL	5 UL		4 U	8 U	N/A	N/A	
PH	5.61					N/A	N/A	
SALINITY %	0					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.214					N/A	N/A	
TEMPERATURE C	14.7					N/A	N/A	
TURBIDITY NTU	563					N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RF ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW103
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	07GW103	07GW103	07GW103	07GW103	07GW103	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
ROUND:	1	2	3	4	4			
SAMPLE I.D.:	7GW1030001	7GW1030002	7GW1030003	7GW1030004	7GW1030004-D			
SAMPLE DATE:	1/25/99	4/7/99	7/12/99	10/6/99	10/6/99			
ASSOCIATED DUPLICATE:				7GW1030004-D	7GW1030004			
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	N/A	80	N
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	75	0.47	C
BROMODICHLOROMETHANE	1 U	1 U	0.44 J	1 U	1 U	80	0.17	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	0.4 J	0.51 J	20	21	20	80	0.15	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	70	6.1	N
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	0.12 J	0.18 J	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)								
2,4-DINITROTOLUENE	5 U	5 U	5 U	5.0 U	5.0 U	N/A	7.3	N
2,6-DINITROTOLUENE	5 U	5 U	5 U	5.0 U	5.0 U	N/A	3.7	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	4 B	11 B	1.0 B	5.0 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5.0 U	5.0 U	N/A	370	N
PESTICIDES/PCBs (µg/L)								
ALPHA-CHLORDANE	0.052 U	0.050 U	0.050 UJ	0.050 U	0.050 U	2	0.19	C
GAMMA-BHC (LINDANE)	0.052 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.2	0.052	C
GAMMA-CHLORDANE	0.052 U	0.050 U	0.050 UJ	0.050 U	0.050 U	2	0.19	C
EXPLOSIVES (µg/L)								
1,3,5-TRINITROBENZENE	2.3	0.20 U	0.4 U	0.2 U	0.2 U	N/A	110	N
2,4,6-TRINITROTOLUENE	34	1.8	4.1	0.34	0.37	N/A	2.2	C
2-AMINO-4,6-DINITROTOLUENE	6.6	0.50	1.8	0.2 U	0.2 U	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	14	0.80	2.5	0.23	0.22	N/A	0.22	N
HMX	10	2.4	11	0.65	0.68	N/A	180	N
RDX	44	2.1	7.4	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)								
TPH-DIESEL				100 U	100 U	N/A	N/A	
INORGANICS (µg/L)								
ALUMINUM	220 K	294 J	104	457 B	683	50-200	3700	N
ARSENIC	1.5 U	2.2 B	1.1 U	3.3 U	3.3 U	50	0.045	C
BARIUM	52.8	30.9	66.3	40.5	42.1	2000	260	N
CALCIUM	4500	3790	9550	10600	11000	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW103
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07GW103 1 7GW1030001 1/25/99	07GW103 2 7GW1030002 4/7/99	07GW103 3 7GW1030003 7/12/99	07GW103 4 7GW1030004 10/6/99 7GW1030004-D	07GW103 4 7GW1030004-D 10/6/99 7GW1030004	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
CHROMIUM	7.1	771 J	5.5	8.4	4.3	100	11	N
COBALT	20.5	18.5	3.8 U	3.9	3.5	N/A	220	N
COPPER	4.8 B	22.1 J	2.8	1.3 U	1.3 U	1300	150	N
IRON	723 J	5130 J	115 J	213	104 K	300	1100	N
LEAD	1.0 U	0.92 U	1.0 U	1.7 U	1.7 U	15	15	
MAGNESIUM	5380 J	1690 J	5410	3970	4130	N/A	N/A	
MANGANESE	45.1 J	89.6 J	23.4	13.8	14.0	50	73	N
MERCURY	0.81	0.20 L	0.15 K	0.07	0.07	2	1.1 (a)	N
NICKEL	7.5 U	703	8.8 U	7.0	3.7	100	73	N
POTASSIUM	1150	794 J	1130	1120	1200	N/A	N/A	
SELENIUM	2.8 J	2.0 U	2.7 U	3.8 U	3.8 U	50	18	N
SODIUM	8770 J	1730	8170	6450	6470	N/A	N/A	
THALLIUM	2.9 U	4.0 B	3.7 U	4.3 UL	4.3 UL	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	1.4	1.4 U	N/A	26	N
ZINC	22.2	19.3 J	10.2 B	10.8 B	20.3 K	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)								
AMMONIA				200 U	200 U	N/A	21	N
DISSOLVED OXYGEN	5550					N/A	N/A	
PERCHLORATES	28.4 L		4 U	8 U	29 J	N/A	N/A	
PH	5.25					N/A	N/A	
SALINITY %	0					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.127					N/A	N/A	
TEMPERATURE C	16					N/A	N/A	
TURBIDITY NTU	75					N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB[illegible]es have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW104
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07GW104 1 7GW1040001 1/27/99	07GW104 2 7GW1040002 4/7/99	07GW104 3 7GW1040003 7/8/99	07GW104 4 7GW1040004 10/20/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	75	0.47	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1.8	1.5	0.83 J	0.62 B	80	0.15	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	0.41 J	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	0.11 J	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	0.49 J	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2,4-DINITROTOLUENE	5 U	5.2 UJ	1.3 J	5.0 U	N/A	7.3	N
2,6-DINITROTOLUENE	5 U	5.2 UJ	5 U	5.0 U	N/A	3.7	N
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	2.8 B	7.2 B	5.0 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5.2 UJ	5 U	5.0 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
ALPHA-CHLORDANE	0.056 UJ	0.050 UJ	0.050 UL	0.094 UR	2	0.19	C
GAMMA-BHC (LINDANE)	0.056 UJ	0.050 UJ	0.050 UL	0.094 UR	0.2	0.052	C
GAMMA-CHLORDANE	0.056 UJ	0.050 UJ	0.050 UL	0.094 UR	2	0.19	C
EXPLOSIVES (µg/L)							
1,3,5-TRINITROBENZENE	10 U	8 U	15 U	20 U	N/A	110	N
2,4,6-TRINITROTOLUENE	110	150	300	410	N/A	2.2	C
2-AMINO-4,6-DINITROTOLUENE	38	48	94	120	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	66	84	150	210	N/A	0.22	N
HMX	140	160	190	170	N/A	180	N
RDX	270	310	590	770	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				410 J	N/A	N/A	
INORGANICS (µg/L)							
ALUMINUM	524	807 J	150	712	50-200	3700	N
ARSENIC	1.5 U	2.6 B	1.1 U	3.3 U	50	0.045	C
BARIUM	18.6	18.8	18.5	22.6	2000	260	N
CALCIUM	3410	3750	3470	3610	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW104
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07GW104 1 7GW1040001 1/27/99	07GW104 2 7GW1040002 4/7/99	07GW104 3 7GW1040003 7/8/99	07GW104 4 7GW1040004 10/20/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
CHROMIUM	2.6 B	3.9 J	2.4 U	1.2 U	100	11	N
COBALT	4.6 B	2.5 U	3.8 U	1.2	N/A	220	N
COPPER	4.4 B	9.4 J	4.8	7.2	1300	150	N
IRON	460	1750 J	227 J	98.9 K	300	1100	N
LEAD	1.0 U	1.1 J	1.0 U	1.7 U	15	15	
MAGNESIUM	2390	2380 J	2550	2550	N/A	N/A	
MANGANESE	20.4	19.3 J	12.4	13.0	50	73	N
MERCURY	0.20 U	0.10 UL	0.10 U	0.09	2	1.1 (a)	N
NICKEL	7.5 U	5.9 U	8.8 U	1.8 U	100	73	N
POTASSIUM	2320 B	1720 J	1460	1420	N/A	N/A	
SELENIUM	2.5 UL	2.0 U	2.7 U	3.8 U	50	18	N
SODIUM	3680	3580	2960	2410	N/A	N/A	
THALLIUM	2.9 U	3.4 B	3.7 U	4.3 UL	2	0.26	N
VANADIUM	5.0 B	5.6 J	2.4 U	1.4 U	N/A	26	N
ZINC	10.1 B	13.4 J	11.6	12.0 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				300 K	N/A	21	N
DISSOLVED OXYGEN	7120				N/A	N/A	
PERCHLORATES	11.5		11	4 U	N/A	N/A	
PH	5.39				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.068				N/A	N/A	
TEMPERATURE C	12.8				N/A	N/A	
TURBIDITY NTU	999				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RF ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW105
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07GW105 1 7GW1050001 1/25/99	07GW105 2 7GW1050002 4/7/99	07GW105 3 7GW1050003 7/12/99	07GW105 4 7GW1050004 10/7/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	N/A	80	N
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	N/A	0.55	N
1,4-DICHLOROBENZENE	1 U	1 U	1 U	0.11 J	75	0.47	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1 U	0.33 J	0.36 J	0.33 B	80	0.15	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	5	1.6	C
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
2,4-DINITROTOLUENE	5 U	5 U	5 U	2 U	N/A	7.3	N
2,6-DINITROTOLUENE	5 U	5 U	5 U	2 U	N/A	3.7	N
BIS(2-ETHYLHEXYL)PHTHALATE	1.1 J	2.5 B	6.8 B	2.0 B	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5.0 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
ALPHA-CHLORDANE	0.052 J	0.044 J	0.042 J	0.045 J	2	0.19	C
GAMMA-BHC (LINDANE)	0.050 U	0.050 U	0.050 U	0.050 U	0.2	0.052	C
GAMMA-CHLORDANE	0.050 U	0.049 J	0.047 J	0.052	2	0.19	C
EXPLOSIVES (µg/L)							
1,3,5-TRINITROBENZENE	0.60 U	0.80 U	1 U	2 U	N/A	110	N
2,4,6-TRINITROTOLUENE	2.2	3.6	4	7.1	N/A	2.2	C
2-AMINO-4,6-DINITROTOLUENE	1.4	2.3	2.7	4.3	N/A	0.22	N
4-AMINO-2,6-DINITROTOLUENE	1.4	2.3	2.7	4.4	N/A	0.22	N
HMX	4.6	6.4	7.4	10	N/A	180	N
RDX	20	29	33	50	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TPH-DIESEL				100 U	N/A	N/A	
INORGANICS (µg/L)							
ALUMINUM	95.2 B	113 B	80.3	112 B	50-200	3700	N
ARSENIC	1.5 U	1.3 U	1.1 U	3.3 U	50	0.045	C
BARIUM	45.4	39.6	38.5	42.7	2000	260	N
CALCIUM	5120	5060	4620	4610	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #07GW105
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	07GW105 1 7GW1050001 1/25/99	07GW105 2 7GW1050002 4/7/99	07GW105 3 7GW1050003 7/12/99	07GW105 4 7GW1050004 10/7/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
CHROMIUM	4.0	15.0 J	6.1	5.0	100	11	N
COBALT	16.6	2.5 U	3.8 U	1.2 U	N/A	220	N
COPPER	7.3 B	5.6 J	6.1	1.3 U	1300	150	N
IRON	80.2 B	312 J	122 J	58.5 K	300	1100	N
LEAD	1.0 U	0.92 U	1.0 U	1.7 U	15	15	
MAGNESIUM	6170	5390 J	5280	5110	N/A	N/A	
MANGANESE	26.3	24.8 J	20.3	22.0	50	73	N
MERCURY	0.20 U	0.10 UL	0.10 U	0.05 U	2	1.1 (a)	N
NICKEL	7.5 U	17.7	8.8 U	5.4	100	73	N
POTASSIUM	1420	1770 J	1390	1560	N/A	N/A	
SELENIUM	2.5 UJ	2.0 U	2.7 U	3.8 U	50	18	N
SODIUM	5600	5680	5390	4840	N/A	N/A	
THALLIUM	5.6	4.4 B	3.7 U	4.3 UL	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	1.4 U	N/A	26	N
ZINC	2.8 B	16.9 J	34.1	11.3 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	5940				N/A	N/A	
PERCHLORATES	9.85 L		8	9 J	N/A	N/A	
PH	5.23				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.125				N/A	N/A	
TEMPERATURE C	13.6				N/A	N/A	
TURBIDITY NTU	9				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RF ues have been divided by a factor of 10 for non-carcinogens (N).

SECTION D-5

WITHIN-WELL COMPARISON OF ANALYTICAL DATA FOR ROUNDS 1, 2, 3 AND 4

SITE 8

SITE 8
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #08GW33
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	08GW33 1 8GW330001 1/22/99	08GW33 2 8GW330002 4/6/99	08GW33 3 8GW330003 7/8/99	08GW33 4 8GW330004 10/6/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	3.7	5.3	5.8	4.1	80	0.15	C
TOLUENE	0.65 J	1 U	1 U	1 U	1000	75	N
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	3 B	3.9 B	1.0 B	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	1.3 J	5 U	5.0 U	N/A	370	N
DIETHYL PHTHALATE	5 U	5 U	5 U	5.0 U	N/A	2900	N
DIMETHYL PHTHALATE	5 U	5 U	5 U	5.0 U	N/A	37000	N
INORGANICS (µg/L)							
ALUMINUM	7980 K	14400 J	2590	16200	50-200	3700	N
ARSENIC	1.5	4.8 B	1.2 B	3.3 U	50	0.045	C
BARIUM	113	131	45.8	132	2000	260	N
BERYLLIUM	1.3 B	2.4 B	0.50 B	2.0 B	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 U	0.50 U	5	3.7	N
CALCIUM	5880	4570	3220	4470	N/A	N/A	
CHROMIUM	211	30.6 J	93.7	21.4	100	11	N
COBALT	51.2	15.9	8.2	15.3	N/A	220	N
COPPER	28.4	34.6 J	12.2	25.0	1300	150	N
IRON	19700 J	40700 J	7660 J	33700	300	1100	N
LEAD	5.0	7.5 J	1.2	7.6	15	15	
MAGNESIUM	5730	7140 J	3260	5840	N/A	N/A	
MANGANESE	716	646 J	287	693	50	73	N
MERCURY	0.20 U	0.56	0.10 U	0.39	2	1.1 (a)	N
NICKEL	170	28.4	76.7	27.4	100	73	N
POTASSIUM	6020	7660 J	3580	7530	N/A	N/A	
SILVER	2.8 UL	3.7 B	2.2 U	1.9 U	100	18	N
SODIUM	5530	5090	4530	3800	N/A	N/A	
THALLIUM	2.9 U	6.6 B	3.7 U	4.3 UL	2	0.26	N
VANADIUM	17.3	34.8 J	4.7	31.4	N/A	26	N
ZINC	64.1	100 J	31.1	91.8	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 K	N/A	21	N
DISSOLVED OXYGEN	5890				N/A	N/A	
PH	6.04				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.085				N/A	N/A	
TEMPERATURE C	13.3				N/A	N/A	
TURBIDITY NTU	999				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 8
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #08GW34
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	08GW34 1 8GW340001 1/20/99	08GW34 2 8GW340002 4/5/99	08GW34 3 8GW340003 7/7/99	08GW34 4 8GW340004 10/5/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CHLOROBENZENE	1 U	1 U	1 U	0.26 J	100	11	N
CHLOROFORM	0.95 J	0.74 J	1.4	0.66 B	80	0.15	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	2.1 B	1.5 B	5.0 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5.0 U	N/A	370	N
DIETHYL PHTHALATE	5 U	5 U	5 U	5.0 U	N/A	2900	N
DIMETHYL PHTHALATE	5 U	5 U	5 U	5.0 U	N/A	37000	N
INORGANICS (µg/L)							
ALUMINUM	367 K	8030 J	1120	588	50-200	3700	N
ARSENIC	1.5 U	1.3 U	1.1 U	3.3 U	50	0.045	C
BARIUM	16.3	74.4	22.6	18.9	2000	260	N
BERYLLIUM	0.12 B	0.52 B	0.13 B	0.34 B	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 U	0.50 U	5	3.7	N
CALCIUM	1940	2720	1950	1890	N/A	N/A	
CHROMIUM	15.0	36.8 J	9.2	7.4	100	11	N
COBALT	57.2	11.6	3.8 U	1.2	N/A	220	N
COPPER	7.4 B	21.0 J	7.6	1.3 U	1300	150	N
IRON	842 J	17200 J	2680 J	724	300	1100	N
LEAD	1.0 U	3.4 J	1.0 U	1.7 U	15	15	
MAGNESIUM	1330	5730 J	1810	1460	N/A	N/A	
MANGANESE	34.5	263 J	37.4	38.4	50	73	N
MERCURY	0.20 U	0.10 UL	0.10 U	0.07	2	1.1 (a)	N
NICKEL	14.1	37.1	10.2	6.8	100	73	N
POTASSIUM	1200	6960 J	1930	1400	N/A	N/A	
SILVER	2.8 UL	3.8 B	2.2 U	1.9 U	100	18	N
SODIUM	3970	4420	4270	3920	N/A	N/A	
THALLIUM	3.3	5.4 B	3.7 U	4.3 UL	2	0.26	N
VANADIUM	2.1 U	18.3 J	2.4 U	1.4 U	N/A	26	N
ZINC	20.9	78.6 J	18.0	15.3 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	5400				N/A	N/A	
PH	4.79				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.041				N/A	N/A	
TEMPERATURE C	14.8				N/A	N/A	
TURBIDITY NTU	52				N/A	N/A	

(a) - RB[illegible]e shown is based on Mercuric chloride.
N/A - No[illegible]lable

SITE 8
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #08GW35
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	08GW35 1 8GW350001 1/20/99	08GW35 2 8GW350002 4/5/99 8GW350002-D	08GW35 2 8GW350002-D 4/5/99 8GW350002	08GW35 3 8GW350003 7/7/99	08GW35 4 8GW350004 10/5/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)								
1,1,2-TRICHLOROETHANE	0.42 J	1 U	0.15 J	1 U	1 U	5	0.19	C
CARBON DISULFIDE	1 U	1 U	1 U	1 U	1 U	N/A	100	N
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	6.3	6	4.7	15	17	80	0.15	C
TOLUENE	1 U	1 U	1 U	1 U	1 U	1000	75	N
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)								
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	3.1 B	2.3 B	2.9 B	5.0 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5.0 U	N/A	370	N
DIETHYL PHTHALATE	5 U	5 U	5 U	5 U	5.0 U	N/A	2900	N
DIMETHYL PHTHALATE	5 U	5 U	5 U	5 U	5.0 U	N/A	37000	N
INORGANICS (µg/L)								
ALUMINUM	16800 K	45600 J	104000 J	72500	22900	50-200	3700	N
ARSENIC	5.3	9.8 B	21.9 B	17.4	3.4	50	0.045	C
BARIUM	300	530	921	674	239	2000	260	N
BERYLLIUM	3.5 B	7.3	13.4	11.9	2.8 B	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 UL	3.0 UL	50.0 U	5	3.7	N
CALCIUM	11900	13200	14600	14800	5780	N/A	N/A	
CHROMIUM	27.4	77.4 J	167 J	94.2	31.3	100	11	N
COBALT	24.3	54.2	94.4 K	69.4	22.5	N/A	220	N
COPPER	34.0	83.8 J	167 J	119	32.4	1300	150	N
IRON	25300 J	91900 J	200000 J	120000 J	36300	300	1100	N
LEAD	10.9	20.8 J	38.9 J	30.8	9.2	15	15	
MAGNESIUM	7980	21300 J	40500 J	26700	8350	N/A	N/A	
MANGANESE	861	1580 J	2440 J	2060	556	50	73	N
MERCURY	0.20 U	0.13 L	0.13 L	0.10 U	0.09	2	1.1 (a)	N
NICKEL	21.8	79.8	156	115 L	39.6	100	73	N
POTASSIUM	6670	23300 J	46600 J	27200	10600	N/A	N/A	
SILVER	2.8 UL	4.8 B	4.0 B	2.5 J	1.9 U	100	18	N
SODIUM	7400	7690	8650	7520	6960	N/A	N/A	
THALLIUM	4.0	9.3 B	19.2 L	9.6 L	4.3 UL	2	0.26	N
VANADIUM	40.0	119 J	258 J	166	46.8	N/A	26	N
ZINC	80.6	253 J	509 J	358	117	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)								
AMMONIA					200 U	N/A	21	N
DISSOLVED OXYGEN	4500					N/A	N/A	
PH	4.87					N/A	N/A	
SALINITY %	0					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.7					N/A	N/A	
TEMPERATURE C	11.7					N/A	N/A	
TURBIDITY NTU	999					N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 8
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #08GW36
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	08GW36 1 8GW360001 1/21/99	08GW36 2 8GW360002 4/5/99	08GW36 3 8GW360003 7/7/99	08GW36 4 8GW360004 10/5/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,2-TRICHLOROETHANE	1.7	1.6	1.3	2.6	5	0.19	C
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1 U	0.21 J	0.74 J	0.5 B	80	0.15	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
VINYL CHLORIDE	0.92 J	0.56 J	1 U	0.53 J	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	1.8 J	2 B	3.3 B	1.0 B	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5.6 U	5 U	5.0 U	N/A	370	N
DIETHYL PHTHALATE	5 U	5.6 U	5 U	5.0 U	N/A	2900	N
DIMETHYL PHTHALATE	5 U	5.6 U	5 U	5.0 U	N/A	37000	N
INORGANICS (µg/L)							
ALUMINUM	13400 K	6360 J	16300	45100	50-200	3700	N
ARSENIC	4.5	4.2 B	4.6 B	11.6	50	0.045	C
BARIUM	563	132	218	533	2000	260	N
BERYLLIUM	7.0	1.2	2.2	6.2	4	7.3	N
CADMIUM	13.5	3.0 UL	3.1 K	2.0	5	3.7	N
CALCIUM	25600	7390	10200	12800	N/A	N/A	
CHROMIUM	96.1	317 J	756	99.4	100	11	N
COBALT	47.8	19.6	47.2	42.4	N/A	220	N
COPPER	93.1	23.2 J	45.4	66.3	1300	150	N
IRON	44700 J	17000 J	41100 J	82900	300	1100	N
LEAD	22.8	4.6 J	8.6	23.9	15	15	
MAGNESIUM	14300	7040 J	11900	18700	N/A	N/A	
MANGANESE	2430	480 J	1280	1370	50	73	N
MERCURY	0.28	0.10 UL	0.19 K	0.13	2	1.1 (a)	N
NICKEL	179	251	573	98.1	100	73	N
POTASSIUM	12500	7280 J	12800	23800	N/A	N/A	
SILVER	2.8 UL	5.8 B	3.5 K	1.9 U	100	18	N
SODIUM	7960	7640	8610	8430	N/A	N/A	
THALLIUM	2.9 U	6.9 B	4.4	4.3 UL	2	0.26	N
VANADIUM	39.0	17.3 J	36.1	97.0	N/A	26	N
ZINC	178	74.3 J	114	276	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	4820				N/A	N/A	
PH	6.06				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.125				N/A	N/A	
TEMPERATURE C	12.5				N/A	N/A	
TURBIDITY NTU	999				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - N[illegible]lable
**All RB[illegible]es have been divided by a factor of 10 for non-carcinogens (N).

SITE 8
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #08GW53
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	08GW53 1 8GW530001 1/22/99	08GW53 2 8GW530002 4/6/99	08GW53 3 8GW530003 7/7/99	08GW53 4 8GW530004 10/7/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.19	C
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	3.5	2.5	3.7	5	80	0.15	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	2.2 B	3.2 B	2.0 B	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5.0 U	N/A	370	N
DIETHYL PHTHALATE	5 U	5 U	1.1 J	5.0 U	N/A	2900	N
DIMETHYL PHTHALATE	5 U	5 U	5 U	5.0 U	N/A	37000	N
INORGANICS (µg/L)							
ALUMINUM	11800 K	1950 J	2640	2230	50-200	3700	N
ARSENIC	4.0	1.8 B	1.3 B	3.3 U	50	0.045	C
BARIUM	95.8	24.5	24.1	14.5	2000	260	N
BERYLLIUM	2.2 B	0.63	0.42 B	0.26 U	4	7.3	N
CADMIUM	2.7 UL	3.2 B	3.0 U	0.97	5	3.7	N
CALCIUM	4220	2850	2300	1960	N/A	N/A	
CHROMIUM	34.4	10.4 J	8.5	3.8	100	11	N
COBALT	20.0	6.0	3.8 U	2.0	N/A	220	N
COPPER	35.2	15.6 J	12.3	3.1	1300	150	N
IRON	21000 J	5310 J	4860 J	1640	300	1100	N
LEAD	6.6	0.92 U	1.9	1.7 U	15	15	
MAGNESIUM	3670	1670 J	1660	1110	N/A	N/A	
MANGANESE	1050	254 J	198	126	50	73	N
MERCURY	0.20 U	0.10 UL	0.10 U	0.07	2	1.1 (a)	N
NICKEL	28.5	11.0	11.6	6.4	100	73	N
POTASSIUM	3290	2030 J	1550	1080	N/A	N/A	
SILVER	2.8 UL	3.6 B	2.2 U	1.9 U	100	18	N
SODIUM	4410	4480	2930	3030	N/A	N/A	
THALLIUM	2.9 U	3.8 B	3.7 U	4.3 UL	2	0.26	N
VANADIUM	16.5	7.5 J	2.4 U	1.5	N/A	26	N
ZINC	99.1	83.8 J	68.6	67.3	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	10600				N/A	N/A	
PH	5.19				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.048				N/A	N/A	
TEMPERATURE C	12.4				N/A	N/A	
TURBIDITY NTU	999				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 8
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #B-1
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	B-1 1 8GWB10001 1/20/99	B-1 2 8GWB10002 4/6/99	B-1 3 8GWB10003 7/7/99	B-1 4 8GWB10004 10/5/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,2-TRICHLOROETHANE	0.98 J	0.53 J	1 U	0.66 J	5	0.19	C
CARBON DISULFIDE	1 U	1 U	1 U	1 U	N/A	100	N
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	7.2	3	5.4	4.6	80	0.15	C
TOLUENE	1 U	1 U	1 U	0.14 B	1000	75	N
VINYL CHLORIDE	1 U	1 U	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	0.17 J	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	1.6 J	3.3 B	51	2.0 B	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	1.6 J	5 U	5.0 U	N/A	370	N
DIETHYL PHTHALATE	1.6 J	5 U	5 U	5.0 U	N/A	2900	N
DIMETHYL PHTHALATE	5 U	5 U	5 U	5.0 U	N/A	37000	N
INORGANICS (µg/L)							
ALUMINUM	684 K	8640 J	1400	1890	50-200	3700	N
ARSENIC	1.5 U	2.3 B	1.7 B	3.3 U	50	0.045	C
BARIUM	27.9	106	39.5	39.9	2000	260	N
BERYLLIUM	0.10 U	0.62 B	0.13 B	0.30 U	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 U	0.50 U	5	3.7	N
CALCIUM	5190	7750	4930	6350	N/A	N/A	
CHROMIUM	2.3 U	18.8 J	2.4 U	5.6	100	11	N
COBALT	8.6	25.8	12.5	7.6	N/A	220	N
COPPER	6.9 B	26.3 J	9.1	3.2	1300	150	N
IRON	1520 J	16600 J	2820 J	3050	300	1100	N
LEAD	1.0 U	2.2 J	1.2	1.7 U	15	15	
MAGNESIUM	2490	7410 J	3100	3500	N/A	N/A	
MANGANESE	853	1320 J	951	953	50	73	N
MERCURY	0.20 U	0.10 UL	0.10 U	0.05 U	2	1.1 (a)	N
NICKEL	7.5 U	27.3	8.8 U	11.6	100	73	N
POTASSIUM	4390	13000 J	5650	7700	N/A	N/A	
SILVER	2.8 UL	3.3 U	2.2 U	1.9 U	100	18	N
SODIUM	7460	9230	8250	7990	N/A	N/A	
THALLIUM	2.9 U	3.3 U	4.4	4.3 UL	2	0.26	N
VANADIUM	2.1 U	24.7 J	2.4 U	3.9	N/A	26	N
ZINC	32.7	75.3 J	30.3	65.7	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	7560				N/A	N/A	
PH	6.06				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.093				N/A	N/A	
TEMPERATURE C	11.8				N/A	N/A	
TURBIDITY NTU	105				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - N[illegible]lable
**All RE[illegible]ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 8
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #B-3
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	B-3 2 8GWB30002 4/7/99	B-3 3 8GWB30003 7/7/99	B-3 4 8GWB30004 10/6/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)						
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	5	0.19	C
CARBON DISULFIDE	11	1 U	3.1	N/A	100	N
CHLOROBENZENE	1 U	1 U	1 U	100	11	N
CHLOROFORM	1	0.95 J	1.6	80	0.15	C
TOLUENE	1 U	1 U	1 U	1000	75	N
VINYL CHLORIDE	0.18 J	1 U	1 U	2	0.019	C
XYLENES, TOTAL	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)						
BIS(2-ETHYLHEXYL)PHTHALATE	2.7 B	3.7 B		6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U		N/A	370	N
DIETHYL PHTHALATE	5 U	4.9 J		N/A	2900	N
DIMETHYL PHTHALATE	5 U	1.6 J		N/A	37000	N
INORGANICS (µg/L)						
ALUMINUM	19100 J	576		50-200	3700	N
ARSENIC	4.7 B	1.1 U		50	0.045	C
BARIUM	183	52.0		2000	260	N
BERYLLIUM	2.0 B	0.11 U		4	7.3	N
CADMIUM	3.0 UL	3.0 U		5	3.7	N
CALCIUM	12100	8400		N/A	N/A	
CHROMIUM	29.6 J	2.4 U		100	11	N
COBALT	22.6	3.8 U		N/A	220	N
COPPER	36.8 J	4.6		1300	150	N
IRON	33100 J	1310 J		300	1100	N
LEAD	11.0 J	1.0 U		15	15	
MAGNESIUM	8320 J	3580		N/A	N/A	
MANGANESE	623 J	106		50	73	N
MERCURY	0.10 UL	0.10 U		2	1.1 (a)	N
NICKEL	30.2	8.8 U		100	73	N
POTASSIUM	14100 J	5670		N/A	N/A	
SILVER	3.6 B	2.2 U		100	18	N
SODIUM	9290	8950		N/A	N/A	
THALLIUM	7.5 B	3.7 U		2	0.26	N
VANADIUM	34.3 J	2.4 U		N/A	26	N
ZINC	107 J	22.6		5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)						
AMMONIA				N/A	21	N
DISSOLVED OXYGEN				N/A	N/A	
PH				N/A	N/A	
SALINITY %				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM				N/A	N/A	
TEMPERATURE C				N/A	N/A	
TURBIDITY NTU				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SECTION D-6

WITHIN-WELL COMPARISON OF ANALYTICAL DATA FOR ROUNDS 1, 2, 3 AND 4

SITE 9

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW01
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW01 1 9GW010001 2/22/99 9GW010001-D	09GW01 1 9GW010001-D 2/22/99 9GW010001	09GW01 2 9GW010002 5/5/99	09GW01 3 9GW010003 8/9/99	09GW01 4 9GW010004 10/28/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1.0 U	1.0 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1.0 U	1.0 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1.0 U	1.0 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1.0 U	1.0 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5.0 UR	5.0 UR	5 UR	5 UR	5 UR	N/A	190	N
ACETONE	5.0 UR	1.9 B	5 UR	1.7 B	5 UR	N/A	61	N
BENZENE	1.0 U	1.0 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1.0 U	1.0 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1.0 U	1.0 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1.0 U	1.0 U	1 U	0.17 J	1 U	5	0.16	C
CHLOROBENZENE	1.0 U	1.0 U	1 U	0.17 J	1 U	100	11	N
CHLOROFORM	1.8 B	1.9 B	3.1	0.95 J	4.1	80	0.15	C
CHLOROMETHANE	1.0 U	1.0 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	0.30 J	0.32 J	0.55 J	0.39 J	0.50 J	70	6.1	N
ETHYLBENZENE	1.0 U	1.0 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2.0 U	2.0 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	0.24 J	0.26 J	0.26 J	0.33 J	0.27 J	5	1.1	C
TOLUENE	1.0 U	1.0 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1.0 U	1.0 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	9.8	11	15	16	16	5	1.6	C
XYLENES, TOTAL	1.0 U	1.0 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)								
BIS(2-ETHYLHEXYL)PHTHALATE	5.0 U	5.0 U	9.9 B	4.5 B	1.1 J	6	4.8	C
DI-N-BUTYL PHTHALATE	5.0 U	5.0 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)								
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.29	0.31	0.26	0.34 J	0.26	2	0.19	C
GAMMA-CHLORDANE	0.24	0.26	0.23	0.28	0.21	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U	0.039 J	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)								
2,4,6-TRINITROTOLUENE	4.0 U	4.0 U	4 U	4 U	4.0 U	N/A	2.2	C
2,6-DINITROTOLUENE	4.0 U	4.0 U	4 U	4 U	4.0 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	4.0 U	4.0 U	4 U	4 U	4.0 U	N/A	0.22	N
3-NITROTOLUENE	4.0 U	4.0 U	4 U	4 U	4.0 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	4.0 U	4.0 U	4 U	4 U	4.0 U	N/A	0.22	N
HMX	10	10	13	11	12	N/A	180	N
RDX	130	130	150	160	150	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)								
TOTAL PETROLEUM HYDROCARBONS					1000 U	N/A	N/A	
TPH-DIESEL					120	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW01
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW01 1 9GW010001 2/22/99 9GW010001-D	09GW01 1 9GW010001-D 2/22/99 9GW010001	09GW01 2 9GW010002 5/5/99	09GW01 3 9GW010003 8/9/99	09GW01 4 9GW010004 10/28/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)								
ALUMINUM	114 B	70.0 B	161	616	101	50-200	3700	N
ANTIMONY	1.9 U	1.9 U	34.2 UL	1.8 B	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.5 U	1.3 U	1.1 U	2.4 U	50	0.045	C
BARIUM	17.8	18.3	18.7	20.2	17.1	2000	260	N
BERYLLIUM	0.12 B	0.16 B	0.07 U	0.10 U	0.10 U	4	7.3	N
CADMIUM	2.7 UJ	2.7 UJ	3.0 U	3.0 UL	3.2 U	5	3.7	N
CALCIUM	3570	3520	3880	3750	3430	N/A	N/A	
CHROMIUM	2.3 U	2.3 U	4.9	10.8 K	2.3 U	100	11	N
COBALT	3.3 U	3.3 U	3.1	15.5	2.6 U	N/A	220	N
COPPER	3.2	4.1	4.9	4.6 B	6.1 B	1300	150	N
CYANIDE	10.0 U	10.0 U	2.3	1.4 U	1.2 U	200	73	N
IRON	169 J	69.4 B	322	884	143 J	300	1100	N
LEAD	1.0 U	1.0 U	0.92 U	1.0 U	1.3 U	15	15	
MAGNESIUM	1700	1730	1770	1820	1640	N/A	N/A	
MANGANESE	16.9	15.8	22.6	27.0	15.4	50	73	N
MERCURY	0.20 U	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	7.5 U	7.5 U	8.1	13.0	9.0	100	73	N
POTASSIUM	1530 B	2000 B	1630	1710 B	1590	N/A	N/A	
SELENIUM	2.5 U	2.5 U	2.0 U	2.7 U	2.4 UL	50	18	N
SILVER	2.8 U	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	6420	6160	7010	6660	6500	N/A	N/A	
THALLIUM	3.3 B	5.0 B	3.3 U	5.2 B	8.1 B	2	0.26	N
VANADIUM	2.7 B	2.6 B	5.1 U	3.4 J	2.9 U	N/A	26	N
ZINC	12.1 B	5.9 B	24.9	13.6 B	7.0 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)								
AMMONIA					200 U	N/A	21	N
DISSOLVED OXYGEN	5860					N/A	N/A	
PERCHLORATES	5 U	5 U		240	798	N/A	N/A	
PH	5.81					N/A	N/A	
SALINITY %	0					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.063					N/A	N/A	
TEMPERATURE C	12.3					N/A	N/A	
TURBIDITY NTU	7					N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RF ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW02
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	09GW02	09GW02	09GW02	09GW02	09GW02	09GW02	FEDERAL	REGION III RBC	TAP WATER
ROUND:	1	2	2	3	3	4	MCLs	FOR TAP WATER	BASIS
SAMPLE I.D.:	9GW020001	9GW020002	9GW020002-D	9GW020003	9GW020003-D	9GW020004			
SAMPLE DATE:	2/21/99	5/3/99	5/3/99	8/5/99	8/5/99	10/28/99			
ASSOCIATED DUPLICATE:		9GW020002-D	9GW020002	9GW020003-D	9GW020003				
VOLATILES (µg/L)									
1,1,1-TRICHLOROETHANE	1.0 U	1 U	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1.0 U	1 U	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1.0 U	1 U	1 U	0.49 J	0.41 J	1 U	5	0.12	C
2-BUTANONE	5.0 UR	5 U	5 U	5 UR	5 UR	5 UR	N/A	190	N
ACETONE	5.0 UR	5 UR	5 UR	1.9 B	2.3 B	5 UR	N/A	61	N
BENZENE	1.0 U	1 U	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1.0 U	1 U	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1.0 U	1 U	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	0.58 J	0.78 J	1	0.87 J	0.65 J	0.77 J	5	0.16	C
CHLOROBENZENE	1.0 U	1 U	1 U	0.23 J	1 U	1 U	100	11	N
CHLOROFORM	0.89 B	0.89 J	1.2	0.93 J	0.79 J	0.99 J	80	0.15	C
CHLOROMETHANE	1.0 U	1 U	1 U	1 U	1 U	0.14 J	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	0.49 J	0.55 J	0.52 J	0.4 J	0.37 J	0.54 J	70	6.1	N
ETHYLBENZENE	1.0 U	1 U	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	5.0	6.2	6.5	4.7	3.8	5.6	5	1.1	C
TOLUENE	1.0 U	1 U	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	9.1 J	12	11	8.7	6.8	10	5	1.6	C
XYLENES, TOTAL	1.0 U	1 U	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)									
BIS(2-ETHYLHEXYL)PHTHALATE	5.0 U	5 U	1.4 B	7 B	2.4 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5.0 U	5 U	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)									
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 UL	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)									
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.75	0.63	0.65	0.5	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)									
TOTAL PETROLEUM HYDROCARBONS						1000 U	N/A	N/A	
TPH-DIESEL						100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW02
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	09GW02	09GW02	09GW02	09GW02	09GW02	09GW02	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
ROUND:	1	2	2	3	3	4			
SAMPLE I.D.:	9GW020001	9GW020002	9GW020002-D	9GW020003	9GW020003-D	9GW020004			
SAMPLE DATE:	2/21/99	5/3/99	5/3/99	8/5/99	8/5/99	10/28/99			
ASSOCIATED DUPLICATE:		9GW020002-D	9GW020002	9GW020003-D	9GW020003				
INORGANICS (µg/L)									
ALUMINUM	766	19.1 B	75.1 B	99.2	166	796	50-200	3700	N
ANTIMONY	1.9 U	34.2 U	34.2 UL	1.8 B	3.2 B	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.3 U	1.1 U	1.1 U	2.4 U	50	0.045	C
BARIUM	109	97.6	91.7	100	106	107	2000	260	N
BERYLLIUM	1.1 B	0.20 B	0.23 B	0.27 B	0.24 B	1.0 B	4	7.3	N
CADMIUM	2.7 UJ	3.0 U	3.0 U	3.0 UL	3.0 UL	3.2 U	5	3.7	N
CALCIUM	8750	8910	8040	8650	8890	8590	N/A	N/A	
CHROMIUM	7.8 B	3.0 UL	3.0 U	3.7 K	4.6 K	6.7	100	11	N
COBALT	6.8	4.1	2.6 B	11.1	12.2	6.1	N/A	220	N
COPPER	4.9	2.4 U	3.3	4.7 B	3.6 B	9.7 B	1300	150	N
CYANIDE	10.0 U	1.1 U	1.1 U	1.4 U	1.4 U	1.2 U	200	73	N
IRON	8080 J	2970	3400	3490	3940	9490 J	300	1100	N
LEAD	1.0 U	0.92 U	0.92 U	1.0 U	1.0 U	1.3 U	15	15	
MAGNESIUM	7470	7210	6530	6950	7240	7340	N/A	N/A	
MANGANESE	642	593	517	519	540	568	50	73	N
MERCURY	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	15.8	6.7	17.0 B	21.0	16.0	27.5	100	73	N
POTASSIUM	5160	4480	4060	4930	4710	4840	N/A	N/A	
SELENIUM	2.5 U	2.0 U	2.0 U	2.7 U	2.7 U	2.4 UL	50	18	N
SILVER	2.8 U	3.3 U	3.3 U	2.2 U	2.2 U	2.2 U	100	18	N
SODIUM	7180	7810	7520	7740	8150	7310	N/A	N/A	
THALLIUM	2.9 U	3.3 U	3.3 U	4.7 B	3.7 U	7.7 B	2	0.26	N
VANADIUM	4.0 B	5.1 U	5.1 U	2.4 U	2.4 U	5.3 B	N/A	26	N
ZINC	50.2	15.7 B	23.4	40.6	32.2	28.4 K	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)									
AMMONIA						200 U	N/A	21	N
DISSOLVED OXYGEN	8210						N/A	N/A	
PERCHLORATES	5 U			4 U	4 U	8 U	N/A	N/A	
PH	6.45						N/A	N/A	
SALINITY %	0						N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.138						N/A	N/A	
TEMPERATURE C	15.3						N/A	N/A	
TURBIDITY NTU	10.2						N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RE[illegible]ies have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW03
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW03 1 9GW030001 2/24/99	09GW03 2 9GW030002 5/6/99	09GW03 3 9GW030003 8/5/99	09GW03 4 9GW030004 10/28/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 U	5 UR	5 UR	N/A	190	N
ACETONE	5 UR	5 UR	2.2 B	2.2 B	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	0.24 J	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	0.16 J	1 U	100	11	N
CHLOROFORM	0.56 J	0.7 B	0.64 J	0.79 J	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	0.18 J	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	0.22 J	1 U	1 U	0.40 J	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	0.44 J	0.4 J	0.33 J	0.78 J	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	6.2 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 U	0.1 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.052 U	0.05 U	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.052 U	0.05 U	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.052 U	0.05 U	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.5 U	0.50 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW03
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW03 1 9GW030001 2/24/99	09GW03 2 9GW030002 5/6/99	09GW03 3 9GW030003 8/5/99	09GW03 4 9GW030004 10/28/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	165	1150 J	99.9	69.2 B	50-200	3700	N
ANTIMONY	1.9 U	1.2 U	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	2.0 K	1.1 U	2.4 U	50	0.045	C
BARIUM	42.6 J	49.3	40.7	42.2	2000	260	N
BERYLLIUM	0.10 UL	0.13 B	0.12 B	0.13 B	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 UL	3.2 U	5	3.7	N
CALCIUM	2160 J	2540	1860	2090	N/A	N/A	
CHROMIUM	32.0	11.3 B	6.0 K	4.5	100	11	N
COBALT	30.4	16.9	5.8	12.1	N/A	220	N
COPPER	6.3 B	25.5	6.2 B	8.3 B	1300	150	N
CYANIDE	10.0 U	1.1 UL	1.4 U	1.2 U	200	73	N
IRON	1280 J	12400	457	287 J	300	1100	N
LEAD	1.0 U	0.97 L	1.0 U	1.3 U	15	15	
MAGNESIUM	2950	2910	2640	2740	N/A	N/A	
MANGANESE	61.2	143	40.2	43.5	50	73	N
MERCURY	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	28.3	21.1 B	14.8	14.2	100	73	N
POTASSIUM	1490	1370	1530 B	1530	N/A	N/A	
SELENIUM	2.5 U	2.0 UL	2.7 U	2.4 UL	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	23000	20500 K	20500	21700	N/A	N/A	
THALLIUM	2.9 U	3.3 UL	4.9 B	9.0 B	2	0.26	N
VANADIUM	2.1 U	13.4	3.4	2.9 U	N/A	26	N
ZINC	8.1 J	16.4	21.8	11.2 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	7920				N/A	N/A	
PERCHLORATES	5 U		4 U	5	N/A	N/A	
PH	4.97				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.162				N/A	N/A	
TEMPERATURE C	12				N/A	N/A	
TURBIDITY NTU	30				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RF ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW04
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW04 1 9GW040001 2/23/99	09GW04 2 9GW040002 5/11/99	09GW04 3 9GW040003 8/9/99	09GW04 4 9GW040004 10/27/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 U	5 UR	5 UR	N/A	190	N
ACETONE	5 UR	5 UR	1.8 B	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	0.35 J	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	6.4	2.8	5.3	3.8	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5.3 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.11 U	0.1 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.056 U	0.034 J	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.056 U	0.05 U	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.056 U	0.05 U	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.23	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	2.7	4.4	3.1	4.0	N/A	180	N
RDX	4.5	7.5	5	6.9	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW04
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW04 1 9GW040001 2/23/99	09GW04 2 9GW040002 5/11/99	09GW04 3 9GW040003 8/9/99	09GW04 4 9GW040004 10/27/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	95.4 B	127 B	98.9	96.5	50-200	3700	N
ANTIMONY	1.9 U	1.2 U	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1 U	2.4 U	50	0.045	C
BARIUM	38.6 J	35.8	38.4	39.3	2000	260	N
BERYLLIUM	0.10 UL	0.07 U	0.10 U	0.10 U	4	7.3	N
CADMIUM	26.9	3.0 UL	3.0 UL	3.2 U	5	3.7	N
CALCIUM	2280 J	2910	2270	2820	N/A	N/A	
CHROMIUM	6.6	3.6 B	7.4 K	7.4	100	11	N
COBALT	3.3 U	5.3 B	23.1	2.6 U	N/A	220	N
COPPER	3.9 B	8.8 B	4.8 B	6.0 B	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	393 J	563	378	436 J	300	1100	N
LEAD	1.0 U	0.92 UL	1.0 U	1.3 U	15	15	
MAGNESIUM	3700	3580	3650	3810	N/A	N/A	
MANGANESE	35.0	33.8	32.0	34.2	50	73	N
MERCURY	0.51	0.22	0.38	0.25	2	1.1 (a)	N
NICKEL	7.5 U	8.8 B	10.8	8.5	100	73	N
POTASSIUM	1520	1450	1790 B	1520	N/A	N/A	
SELENIUM	2.5 U	2.0 UL	2.7 U	2.4 UL	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	18800	18100 K	19500	21200	N/A	N/A	
THALLIUM	2.9 U	4.0 B	5.8 B	7.6 B	2	0.26	N
VANADIUM	2.1 U	5.1 U	3.4	2.9 U	N/A	26	N
ZINC	51.5 J	9.6	9.9 B	7.2 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	7400				N/A	N/A	
PERCHLORATES	11.2 K		4 U	4 U	N/A	N/A	
PH	4.79				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.147				N/A	N/A	
TEMPERATURE C	16.8				N/A	N/A	
TURBIDITY NTU	9.8				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB[illegible]ies have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW05
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW05 1 9GW050001 2/21/99	09GW05 2 9GW050002 5/3/99	09GW05 3 9GW050003 8/9/99	09GW05 4 9GW050004 10/28/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1.0 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1.0 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1.0 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5.0 UR	5 UR	5 UR	5 UR	N/A	190	N
ACETONE	5.0 UR	5 UR	2.4 B	5 UR	N/A	61	N
BENZENE	1.0 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	0.33 B	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1.0 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1.0 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1.0 U	1 U	0.18 J	1 U	100	11	N
CHLOROFORM	4.5 B	5.1	2.3	3.1	80	0.15	C
CHLOROMETHANE	1.0 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	0.16 J	70	6.1	N
ETHYLBENZENE	1.0 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2.0 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1.0 U	1 U	1 U	0.14 J	5	1.1	C
TOLUENE	1.0 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	0.41 J	1.6	0.96 J	2.6	5	1.6	C
XYLENES, TOTAL	1.0 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5.0 U	5 U	10 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5.0 U	5 U	1.2 J	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 UJ	0.10 UJ	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 UJ	0.057 J	0.076	0.043 J	2	0.19	C
GAMMA-CHLORDANE	0.050 UJ	0.039 J	0.038 J	0.026 J	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW05
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW05 1 9GW050001 2/21/99	09GW05 2 9GW050002 5/3/99	09GW05 3 9GW050003 8/9/99	09GW05 4 9GW050004 10/28/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	22100	17900	1420	217	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	3.0 B	1.8 U	6	1.5	N
ARSENIC	25.0	22.6	3.3	2.4 U	50	0.045	C
BARIUM	170	140	100	95.4	2000	260	N
BERYLLIUM	0.99 B	0.55 B	0.18 B	0.14 B	4	7.3	N
CADMIUM	2.7 UJ	3.0 U	3.0 UL	3.2 U	5	3.7	N
CALCIUM	3800	3740	3700	3750	N/A	N/A	
CHROMIUM	115	80.1	71.2	19.3	100	11	N
COBALT	20.1	13.1 B	10.8	7.0	N/A	220	N
COPPER	75.0	77.2	13.9	8.0 B	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	74500 J	58200	11700	1060 J	300	1100	N
LEAD	18.9	14.0	1.4	1.3 U	15	15	
MAGNESIUM	7510	7050	6790	6830	N/A	N/A	
MANGANESE	248	210	170	163	50	73	N
MERCURY	12.0	2.7	1.1	0.36	2	1.1 (a)	N
NICKEL	19.9	15.2 B	71.7	27.3	100	73	N
POTASSIUM	3960	3280 B	2760	2310	N/A	N/A	
SELENIUM	24.8	36.6	6.6 B	2.4 UL	50	18	N
SILVER	3.9 B	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	29000	29000	30500	30000	N/A	N/A	
THALLIUM	3.4 B	3.3 U	5.5 B	8.9 B	2	0.26	N
VANADIUM	162	116	13.6	2.9 U	N/A	26	N
ZINC	41.1	34.8	13.8 B	11.2 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	7460				N/A	N/A	
PERCHLORATES	5 U		4 U	8 U	N/A	N/A	
PH	4.61				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.249				N/A	N/A	
TEMPERATURE C	13.6				N/A	N/A	
TURBIDITY NTU	999				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC [illegible]es have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW06
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW06 1 9GW060001 2/23/99	09GW06 2 9GW060002 5/6/99 9GW060002-D	09GW06 2 9GW060002-D 5/6/99 9GW060002	09GW06 3 9GW060003 8/5/99 9GW060003-D	09GW06 3 9GW060003-D 8/5/99 9GW060003	09GW06 4 9GW060004 10/27/99 9GW060004-D	09GW06 4 9GW060004-D 10/27/99 9GW060004	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)										
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 U	5 U	5 UR	5 UR	5 UR	5 UR	N/A	190	N
ACETONE	5 UR	5 UR	5 UR	1.9 B	2 B	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	0.44 J	1 U	1 U	1 U	0.21 J	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	4	2.1	2.2	1.4	1.9	0.77 J	0.92 J	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	0.28 J	0.25 J	0.27 J	0.31 J	0.4 J	0.26 J	0.33 J	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)										
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	17 B	5 U	3.4 B	2.1 B	5 U	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)										
4,4'-DDT	0.10 U	0.1 U	0.1 U	0.1 U	0.10 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.052 U	0.067	0.075	0.1 J	0.090	0.059	0.060	2	0.19	C
GAMMA-CHLORDANE	0.052 U	0.048 J	0.051	0.054	0.046 J	0.035 J	0.035 J	2	0.19	C
HEPTACHLOR EPOXIDE	0.052 U	0.05 U	0.05 U	0.028 R	0.050 U	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)										
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)										
TOTAL PETROLEUM HYDROCARBONS						1000 U	1000 U	N/A	N/A	
TPH-DIESEL						100 U	100 U	N/A	N/A	
INORGANICS (µg/L)										
ALUMINUM	1090	1150 J	1380 J	266	747	444	515	50-200	3700	N
ANTIMONY	1.9 U	1.2 U	1.4 B	1.9 B	1.7 U	1.8 U	1.8 U	6	1.5	N
ARSENIC	2.1	1.3 K	1.3 U	1.6	1.2	2.4 U	2.4 U	50	0.045	C

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW06
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	09GW06	09GW06	09GW06	09GW06	09GW06	09GW06	09GW06	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
ROUND:	1	2	2	3	3	4	4			
SAMPLE I.D.:	9GW060001	9GW060002	9GW060002-D	9GW060003	9GW060003-D	9GW060004	9GW060004-D			
SAMPLE DATE:	2/23/99	5/6/99	5/6/99	8/5/99	8/5/99	10/27/99	10/27/99			
ASSOCIATED DUPLICATE:		9GW060002-D	9GW060002	9GW060003-D	9GW060003	9GW060004-D	9GW060004			
BARIUM	90.4 J	106	105	92.7	103	111	114	2000	260	N
BERYLLIUM	0.10 UL	0.17 B	0.13 B	0.37 B	0.17 B	0.18 B	0.24 B	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 UL	3.0 U	3.0 UL	3.2 U	3.2 U	5	3.7	N
CALCIUM	3640 J	4140	4060	3720	3950	3960	4110	N/A	N/A	
CHROMIUM	19.5	17.9 B	16.8 B	20.0	31.2	21.2	9.8	100	11	N
COBALT	3.3 U	6.3 B	3.9 B	8.2 B	5.8	9.8	7.8	N/A	220	N
COPPER	9.7 B	17.1	9.9 B	4.7	8.0 B	10.6	10.3	1300	150	N
CYANIDE	10.0 U	1.2 L	1.2 L	1.4 U	1.4 U	1.2 U	1.2 U	200	73	N
IRON	6070 J	3980	4330	1190	3500	1560 J	2290 J	300	1100	N
LEAD	2.0 B	0.92 UL	0.92 UL	1.0 U	1.0 U	1.3 U	1.3 U	15	15	
MAGNESIUM	6040	7480	7430	6320	6830	6800	7230	N/A	N/A	
MANGANESE	97.9	104	103	145	155	212	197	50	73	N
MERCURY	0.23 K	0.16	0.18	0.10	0.18	0.08	0.10	2	1.1 (a)	N
NICKEL	10.0	14.5 B	10.9 B	20.5 B	29.2	27.7	21.2	100	73	N
POTASSIUM	2660	2690	2260	2830	2770	2990	2930	N/A	N/A	
SELENIUM	2.8	2.9 J	2.3 J	2.7 U	2.7 U	2.4 UL	2.4 UL	50	18	N
SILVER	2.8 U	3.3 U	3.3 U	2.2 U	2.2 U	2.2 U	2.2 U	100	18	N
SODIUM	26500	25500 K	25300 K	22800	24700	25800	26900	N/A	N/A	
THALLIUM	3.0 B	5.7 B	3.7 B	4.0 B	3.7 U	7.9 B	5.8 B	2	0.26	N
VANADIUM	11.0	9.9	13.1	3.3 B	6.8	4.0 B	4.2 B	N/A	26	N
ZINC	9.4 J	29.1	14.1	18.6 J	20.8	13.3 B	13.4 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)										
AMMONIA						200 U	200 U	N/A	21	N
DISSOLVED OXYGEN	6160							N/A	N/A	
PERCHLORATES	5 U			4 U	4 U	8 U	8 U	N/A	N/A	
PH	4.95							N/A	N/A	
SALINITY %	0							N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.201							N/A	N/A	
TEMPERATURE C	16.4							N/A	N/A	
TURBIDITY NTU	403							N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC [illegible]s have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW07
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW07 1 9GW070001 2/23/99	09GW07 2 9GW070002 5/6/99	09GW07 3 9GW070003 8/4/99	09GW07 4 9GW070004 10/26/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	0.38 J	1 U	5	0.12	C
2-BUTANONE	5 UR	5 U	5 UR	5 UR	N/A	190	N
ACETONE	5 UR	5 UR	4.8 B	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	22	20	3.2	6.1	80	0.15	C
CHLOROMETHANE	1 U	1 U	2.7	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	0.11 J	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	1.8 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 UJ	0.1 UJ	0.1 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.052 UJ	0.05 UJ	0.033 J	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.052 UJ	0.05 UJ	0.05 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.052 UJ	0.05 UJ	0.05 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW07
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW07 1 9GW070001 2/23/99	09GW07 2 9GW070002 5/6/99	09GW07 3 9GW070003 8/4/99	09GW07 4 9GW070004 10/26/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	1430	89100 J	19900	3370	50-200	3700	N
ANTIMONY	2.0	1.2 U	1.7 U	1.8 U	6	1.5	N
ARSENIC	2.2	69.9 K	17.8	2.4 U	50	0.045	C
BARIUM	55.0 J	344	151	95.8	2000	260	N
BERYLLIUM	0.10 UL	2.2	0.74 B	0.29 B	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 U	3.2 UL	5	3.7	N
CALCIUM	4870 J	6880	5360	5310	N/A	N/A	
CHROMIUM	109	534 L	78.6	15.9	100	11	N
COBALT	27.6	61.0 K	17.0 B	5.6	N/A	220	N
COPPER	11.1 B	300	64.5	14.3 L	1300	150	N
CYANIDE	10.0 U	1.1 UL	1.4 U	1.2 U	200	73	N
IRON	6380 J	248000	65000	12300	300	1100	N
LEAD	1.5 B	85.0 L	22.5	2.4	15	15	
MAGNESIUM	5560	9670	6780	5850	N/A	N/A	
MANGANESE	40.7	691	236	122	50	73	N
MERCURY	0.20 U	1.0	0.54	0.18	2	1.1 (a)	N
NICKEL	85.8	259	31.6 B	13.0	100	73	N
POTASSIUM	2040	5460	3510	2560	N/A	N/A	
SELENIUM	2.5 U	125 J	23.2	2.8 J	50	18	N
SILVER	2.8 U	3.3 U	4.7 B	2.2 U	100	18	N
SODIUM	17700	21100 K	23700	23200	N/A	N/A	
THALLIUM	3.4 B	8.9 B	4.7 B	5.0 UL	2	0.26	N
VANADIUM	9.2	570	150	27.3	N/A	26	N
ZINC	13.5 J	289	104 J	40.3	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				400 U	N/A	21	N
DISSOLVED OXYGEN	6440				N/A	N/A	
PERCHLORATES	5 U		4 U	8 U	N/A	N/A	
PH	5.23				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.164				N/A	N/A	
TEMPERATURE C	17.2				N/A	N/A	
TURBIDITY NTU	260				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB[illegible]es have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW100
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW100 1 9GW1000001 2/19/99	09GW100 2 9GW1000002 5/1/99	09GW100 3 9GW1000003 8/4/99	09GW100 4 9GW1000004 10/27/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 U	4.1 L	5 UR	N/A	190	N
ACETONE	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1.7	3.2	1 U	1.9	80	0.15	C
CHLOROMETHANE	1 U	1 U	0.58 J	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1.1	2.2	1 U	1.9	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	0.27 J	1 U	0.25 J	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	7.5	20	0.18 J	17	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 UJ	0.10 UJ	0.1 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 UJ	0.19 J	0.03 J	0.028 J	2	0.19	C
GAMMA-CHLORDANE	0.050 UJ	0.095 J	0.05 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 UJ	0.050 UJ	0.05 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	1 U	2 U	0.2 U	1 U	N/A	2.2	C
2,6-DINITROTOLUENE	1 U	2 U	0.2 U	1 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	1 U	2 U	0.2 U	1 U	N/A	0.22	N
3-NITROTOLUENE	1 U	2 U	0.2 U	1 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	1 U	2 U	0.2 U	1 U	N/A	0.22	N
HMX	3	5.1	0.5 U	2.5	N/A	180	N
RDX	41	66	0.5 U	32	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW100
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW100 1 9GW1000001 2/19/99	09GW100 2 9GW1000002 5/1/99	09GW100 3 9GW1000003 8/4/99	09GW100 4 9GW1000004 10/27/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	8730	3240	11100	2720	50-200	3700	N
ANTIMONY	5.9 B	34.2 UL	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.9 B	1.1 U	2.4 U	50	0.045	C
BARIUM	98.9	63.4	136	68.6	2000	260	N
BERYLLIUM	0.70 B	0.32 B	1.3 B	0.38 B	4	7.3	N
CADMIUM	2.7 U	3.0 U	3.0 U	3.2 UL	5	3.7	N
CALCIUM	7750	5750	23900	10800	N/A	N/A	
CHROMIUM	12.3 B	6.3	10.8 L	2.4	100	11	N
COBALT	13.0	7.1 B	13.3 B	3.4	N/A	220	N
COPPER	14.6	11.6	26.6	8.9 L	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	14400	7360	26900	7170	300	1100	N
LEAD	4.4 B	1.2 K	5.6	1.3 U	15	15	
MAGNESIUM	5830	4150	13700	5940	N/A	N/A	
MANGANESE	1300	1110	779	375	50	73	N
MERCURY	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	9.7	10.1 B	13.8 B	6.6 U	100	73	N
POTASSIUM	4940	4510	8730	4180	N/A	N/A	
SELENIUM	2.8 B	2.0 U	2.7 U	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	2.4 B	2.2 U	100	18	N
SODIUM	8330	7370	22700	12300	N/A	N/A	
THALLIUM	2.9 U	3.3 U	4.8 B	8.7 B	2	0.26	N
VANADIUM	17.4 B	7.5	24.8	3.2	N/A	26	N
ZINC	38.2	51.6	56.5 J	23.1 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200	N/A	21	N
DISSOLVED OXYGEN	8490				N/A	N/A	
PERCHLORATES	5 U		4 U	8 U	N/A	N/A	
PH	5.73				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.118				N/A	N/A	
TEMPERATURE C	8.4				N/A	N/A	
TURBIDITY NTU	999				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RF ies have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW101
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW101 1 9GW1010001 2/22/99	09GW101 2 9GW1010002 5/1/99	09GW101 3 9GW1010003 8/4/99	09GW101 4 9GW1010004 11/2/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1.0 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1.0 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1.0 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5.0 UR	5 U	4.1 L	5 UR	N/A	190	N
ACETONE	1.9 B	5 UR	2 B	5 UR	N/A	61	N
BENZENE	1.0 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1.0 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1.0 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1.0 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1.0 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	0.78 B	0.52 J	1 U	0.18 B	80	0.15	C
CHLOROMETHANE	1.0 U	1 U	0.56 J	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	3.8	2.5	1 U	0.24 J	70	6.1	N
ETHYLBENZENE	1.0 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	0.22 B	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	0.78 J	0.63 J	1 U	1 U	5	1.1	C
TOLUENE	1.0 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	13	15	0.88 J	4.0	5	1.6	C
XYLENES, TOTAL	1.0 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5.0 U	5 U	14 B	4.8 J	6	4.8	C
DI-N-BUTYL PHTHALATE	5.0 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 UJ	0.10 UJ	0.1 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 UJ	0.050 UJ	0.05 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 UJ	0.050 UJ	0.05 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 UJ	0.050 UJ	0.05 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.83	1.3	0.5 U	0.90	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW101
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW101 1 9GW1010001 2/22/99	09GW101 2 9GW1010002 5/1/99	09GW101 3 9GW1010003 8/4/99	09GW101 4 9GW1010004 11/2/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	331	1100	60.0 B	60.8 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.9 B	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1 U	2.4 U	50	0.045	C
BARIUM	45.7	41.2	34.4	42.9	2000	260	N
BERYLLIUM	0.19 B	0.10 B	0.13 B	0.10 U	4	7.3	N
CADMIUM	2.7 UJ	3.0 U	3.0 U	3.2 U	5	3.7	N
CALCIUM	19200	20000	23300	26300	N/A	N/A	
CHROMIUM	9.0 B	3.0 U	2.4 UL	2.3 U	100	11	N
COBALT	4.7	3.0 B	8.8 B	2.6 U	N/A	220	N
COPPER	4.6	3.6	1.4	9.9	1300	150	N
CYANIDE	10.0 U	1.3 B	1.4 U	1.2 U	200	73	N
IRON	753 J	2300	89.4	124 J	300	1100	N
LEAD	1.0 U	0.92 U	1.0 U	1.3 U	15	15	
MAGNESIUM	9560	9420	9720	10400	N/A	N/A	
MANGANESE	870	590	323	197	50	73	N
MERCURY	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	11.6	8.3 B	8.8 U	6.6 U	100	73	N
POTASSIUM	7190	5790	5140	4580	N/A	N/A	
SELENIUM	2.5 U	2.0 U	2.7 U	2.4 UL	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	20800	24900	22700	19700	N/A	N/A	
THALLIUM	2.9 U	3.3 U	3.7 UL	7.8 B	2	0.26	N
VANADIUM	4.0 B	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	81.3	23.6	10.4 J	7.2 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				90	N/A	21	N
DISSOLVED OXYGEN	5780				N/A	N/A	
PERCHLORATES	5 U		4 U	7	N/A	N/A	
PH	6.41				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.3				N/A	N/A	
TEMPERATURE C	14.6				N/A	N/A	
TURBIDITY NTU	8.1				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RF ıes have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW102
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW102 1 9GW1020001 2/23/99 9GW1020001-D	09GW102 1 9GW1020001-D 2/23/99 9GW1020001	09GW102 2 9GW1020002 5/13/99	09GW102 3 9GW1020003 8/10/99	09GW102 4 9GW1020004 10/29/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 UR	5 U	5 UR	5 UR	N/A	190	N
ACETONE	5 UR	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1 U	1 U	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)								
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	3.6 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)								
4,4'-DDT	0.11 U	0.11 U	0.1 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.055 U	0.053 U	0.05 U	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.055 U	0.053 U	0.05 U	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.055 U	0.053 U	0.05 U	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)								
2,4,6-TRINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)								
TOTAL PETROLEUM HYDROCARBONS					1000 U	N/A	N/A	
TPH-DIESEL					100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW102
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW102 1 9GW1020001 2/23/99 9GW1020001-D	09GW102 1 9GW1020001-D 2/23/99 9GW1020001	09GW102 2 9GW1020002 5/13/99	09GW102 3 9GW1020003 8/10/99	09GW102 4 9GW1020004 10/29/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)								
ALUMINUM	220	164	210 J	235	413	50-200	3700	N
ANTIMONY	1.9 U	1.9 U	1.2 U	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.5 U	1.3 U	1.2	2.4 U	50	0.045	C
BARIUM	35.3 J	35.3 J	41.9	46.1	49.1	2000	260	N
BERYLLIUM	0.10 UL	0.10 UL	0.21 B	0.21 B	0.22 B	4	7.3	N
CADMIUM	2.7 UL	2.7 UL	3.0 UL	3.0 UL	3.2 U	5	3.7	N
CALCIUM	1800 J	1910 J	1970	2090	2000	N/A	N/A	
CHROMIUM	44.6	30.7	26.9 B	56.2	68.0	100	11	N
COBALT	74.2	77.5	53.2	62.0	19.7	N/A	220	N
COPPER	9.1 B	8.1 B	17.5	35.1	41.8	1300	150	N
CYANIDE	10.0 U	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	1540 J	1060 J	1090	1060	2860 J	300	1100	N
LEAD	1.7 B	2.2 B	0.92 UL	1.0	3.9 K	15	15	
MAGNESIUM	2470	2510	2670	2690	2600	N/A	N/A	
MANGANESE	283	279	313	357	334	50	73	N
MERCURY	0.20 U	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	44.8	35.3	40.7	69.2	71.8	100	73	N
POTASSIUM	2300	2490	2050	2200 B	2170	N/A	N/A	
SELENIUM	2.5 U	2.5 U	2.0 UJ	2.7 U	2.4 UL	50	18	N
SILVER	2.8 U	2.8 U	4.3	2.2 U	2.2 U	100	18	N
SODIUM	5100	5050	4930 K	4650	4570	N/A	N/A	
THALLIUM	2.9 U	3.9 B	3.3 U	7.4 B	6.3 B	2	0.26	N
VANADIUM	2.1 U	2.1 U	5.1 U	3.6	2.9 U	N/A	26	N
ZINC	110 J	79.6 J	24.6	32.1	27.5 K	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)								
AMMONIA						N/A	21	N
DISSOLVED OXYGEN	6560					N/A	N/A	
PERCHLORATES	5 U	5 U		4 U		N/A	N/A	
PH	5.31					N/A	N/A	
SALINITY %	0					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.058					N/A	N/A	
TEMPERATURE C	14.2					N/A	N/A	
TURBIDITY NTU	39					N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB ies have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW103
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	09GW103	09GW103	09GW103	09GW103	09GW103	09GW103	09GW103	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
ROUND:	1	1	2	2	3	4	4			
SAMPLE I.D.:	9GW1030001	9GW1030001-D	9GW1030002	9GW1030002-D	9GW1030003	9GW1030004	9GW1030004-D			
SAMPLE DATE:	2/22/99	2/22/99	5/3/99	5/3/99	8/5/99	11/3/99	11/3/99			
ASSOCIATED DUPLICATE:	9GW1030001-D	9GW1030001	9GW1030002-D	9GW1030002		9GW1030004-D	9GW1030004			
VOLATILES (µg/L)										
1,1,1-TRICHLOROETHANE	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5.0 UR	5.0 UR	5 UR	5 UR	5 UR	5 UR	5 UR	N/A	190	N
ACETONE	1.7 B	1.6 B	5 UR	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	0.87 B	0.84 B	0.38 J	0.97 J	0.99 J	3.4	3.2	80	0.15	C
CHLOROMETHANE	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1.0 U	0.21 J	1 U	1 U	0.3 J	0.11 J	1 U	70	6.1	N
ETHYLBENZENE	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	0.78 J	0.86 J	0.27 J	0.93 J	0.97 J	0.63 J	0.57 J	5	1.1	C
TOLUENE	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	2.9	2.9	1.3	4.1	3.5 J	8.1	7.4	5	1.6	C
XYLENES, TOTAL	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)										
BIS(2-ETHYLHEXYL)PHTHALATE	5.0 U	5.0 U	5 U	5 U	27 B	5 U	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)										
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)										
2,4,6-TRINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	1.3	1.4	1.6	1.7	1.5	1.8	1.7	N/A	180	N
RDX	2.7	2.8	2.9	3	3.6	2.5	2.3	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)										
TOTAL PETROLEUM HYDROCARBONS						1000 U	1000 U	N/A	N/A	
TPH-DIESEL						100 UJ	100 UJ	N/A	N/A	
INORGANICS (µg/L)										
ALUMINUM	90.5 B	91.8 B	114 B	75.4 B	408	84.1 B	68.3 B	50-200	3700	N
ANTIMONY	1.9 U	1.9 U	34.2 UL	34.2 UL	1.7 U	1.8 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.5 U	2.4 B	1.3 U	1.1 U	2.4 U	2.4 U	50	0.045	C
BARIUM	22.8	21.5	22.3	21.8	23.8	25.1	25.1	2000	260	N
BERYLLIUM	0.13 B	0.10 B	0.07 U	0.07 U	0.11 U	0.10 B	0.10 U	4	7.3	N
CADMIUM	2.7 UJ	2.7 UJ	3.0 U	3.0 U	3.0 U	3.2 U	3.2 U	5	3.7	N
CALCIUM	4970	4830	4620	4500	5360	4090	4460	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW103
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION:	09GW103	09GW103	09GW103	09GW103	09GW103	09GW103	09GW103	FEDERAL	REGION III RBC	TAP WATER
ROUND:	1	1	2	2	3	4	4	MCLs	FOR TAP WATER	BASIS
SAMPLE I.D.:	9GW1030001	9GW1030001-D	9GW1030002	9GW1030002-D	9GW1030003	9GW1030004	9GW1030004-D			
SAMPLE DATE:	2/22/99	2/22/99	5/3/99	5/3/99	8/5/99	11/3/99	11/3/99			
ASSOCIATED DUPLICATE:	9GW1030001-D	9GW1030001	9GW1030002-D	9GW1030002		9GW1030004-D	9GW1030004			
CHROMIUM	2.3 U	2.3 U	7.5	4.4	2.4 UL	3.7	2.4	100	11	N
COBALT	7.6	6.5	2.5 U	2.5 U	38.2	2.8	2.6 U	N/A	220	N
COPPER	2.4 U	2.4 U	7.3	4.9	2.2	5.0 B	6.4 B	1300	150	N
CYANIDE	10.0 U	10.0 U	1.1 U	1.1 U	1.4 U	1.8	2.2	200	73	N
IRON	58.9 B	91.0 B	177 B	93.6 B	609	114 K	103 K	300	1100	N
LEAD	1.0 U	1.0 U	0.92 U	0.92 U	1.0 U	1.3 U	1.3 U	15	15	
MAGNESIUM	3880	3650	3440	3380	4170	3360	3380	N/A	N/A	
MANGANESE	115	114	75.1	72.6	88.0	73.6	76.2	50	73	N
MERCURY	0.20 U	0.20 U	0.10 U	0.10 U	0.10 U	0.07 U	0.07 U	2	1.1 (a)	N
NICKEL	7.5 U	7.5 U	7.7 B	5.9 U	8.8 U	6.6 U	6.6 U	100	73	N
POTASSIUM	3090	2460 B	2490 B	2360 B	2870	2600 K	2390 K	N/A	N/A	
SELENIUM	2.5 U	2.5 U	2.0 U	2.0 U	2.7 U	2.4 UJ	2.4 UJ	50	18	N
SILVER	2.8 U	2.8 U	3.3 U	3.3 U	3.1 B	2.2 U	2.2 U	100	18	N
SODIUM	15200	14900	15100	14800	14100	17600	18000	N/A	N/A	
THALLIUM	2.9 U	3.1 B	3.3 U	3.3 U	4.3 B	6.9 B	7.2 B	2	0.26	N
VANADIUM	2.1 U	2.1 U	5.1 U	5.1 U	2.4 U	2.9 U	2.9 U	N/A	26	N
ZINC	36.6	38.2	30.5	12.3	17.8 J	4.7 B	32.4 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)										
AMMONIA						100	90	N/A	21	N
DISSOLVED OXYGEN	4140							N/A	N/A	
PERCHLORATES	10.7 K	11.5 K			4 U	4 U	4 U	N/A	N/A	
PH	5.7							N/A	N/A	
SALINITY %	0							N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.134							N/A	N/A	
TEMPERATURE C	12							N/A	N/A	
TURBIDITY NTU	2.5							N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC s have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW104
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW104 1 9GW1040001 2/23/99	09GW104 2 9GW1040002 5/1/99	09GW104 3 9GW1040003 8/9/99	09GW104 4 9GW1040004 11/4/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 U	2.8 L	5 UR	N/A	190	N
ACETONE	2.5 B	5 UR	3.5 B	5 UR	N/A	61	N
BENZENE	1 U	0.19 J	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1 U	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1 U	1 U	0.61 J	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1.3	1.3	1.6	1.4	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	0.18 J	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1.8 J	2.4	3.4	2.1	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	1.3 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 U	0.10 UJ	0.1 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 U	0.050 UJ	0.05 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 U	0.050 UJ	0.05 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 U	0.050 UJ	0.05 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 UJ	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW104
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW104 1 9GW1040001 2/23/99	09GW104 2 9GW1040002 5/1/99	09GW104 3 9GW1040003 8/9/99	09GW104 4 9GW1040004 11/4/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	157	48.9 B	77.4	68.3 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	3.6 B	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1 U	2.4 U	50	0.045	C
BARIUM	93.6	92.6	51.7	76.7	2000	260	N
BERYLLIUM	0.10 UL	0.07 U	0.10 U	0.10 U	4	7.3	N
CADMIUM	2.7 UL	3.0 U	3.0 UL	3.2 U	5	3.7	N
CALCIUM	11500	10900	9470	10500	N/A	N/A	
CHROMIUM	22.8	4.0	2.4 U	2.3 U	100	11	N
COBALT	3.3 U	3.4 B	3.8 U	2.6 U	N/A	220	N
COPPER	6.7	3.8	3.6 B	5.9 B	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.3	200	73	N
IRON	2860	2840	346	420	300	1100	N
LEAD	1.0 U	0.90 U	1.0 U	1.3 U	15	15	
MAGNESIUM	6180	5780	5420	5920	N/A	N/A	
MANGANESE	829	806	546	609	50	73	N
MERCURY	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	19.3	5.9 U	8.8 U	6.6 U	100	73	N
POTASSIUM	4630	4040	3970	3990 K	N/A	N/A	
SELENIUM	2.5 U	2.0 U	2.7 U	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	10500	10100	10200	10100	N/A	N/A	
THALLIUM	6.8 B	3.3 U	4.0 B	6.6 B	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	15.1 L	90.5	24.5	18.8 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				100	N/A	21	N
DISSOLVED OXYGEN	4650				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	6.7				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.177				N/A	N/A	
TEMPERATURE C	13.2				N/A	N/A	
TURBIDITY NTU	31				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC [illegible]es have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW105
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW105 1 9GW1050001 2/23/99	09GW105 2 9GW1050002 4/30/99	09GW105 3 9GW1050003 8/4/99	09GW105 4 9GW1050004 11/2/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	2 U	2 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	2 U	2 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	2 U	2 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	2 U	2 U	5	0.12	C
2-BUTANONE	5 UR	5 U	6.8 L	10 UR	N/A	190	N
ACETONE	5 UR	5 UR	3.2 B	10 UR	N/A	61	N
BENZENE	1 U	1 U	2 U	2 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	2 U	2 U	80	0.17	C
BROMOMETHANE	1 U	1 U	2 U	2 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	2 U	2 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	2 U	2 U	100	11	N
CHLOROFORM	1.2	1.4	1 J	1.7 J	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 J	2 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	4.9	3.9	3.5	3.8	70	6.1	N
ETHYLBENZENE	1 U	1 U	2 U	2 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	4 U	0.77 B	5	4.1	C
TETRACHLOROETHENE	0.2 J	0.22 J	2 U	2 U	5	1.1	C
TOLUENE	0.47 J	1 U	2 U	2 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	2 U	2 U	100	12	N
TRICHLOROETHENE	25 J	35	25	32	5	1.6	C
XYLENES, TOTAL	1 U	1 U	2 U	2 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	1.5 B	5.2 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5.2 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 U	0.10 U	0.1 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.052 U	0.050 U	0.05 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.052 U	0.050 U	0.05 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.052 U	0.050 U	0.05 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.63	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.79	1	1	1.5	N/A	180	N
RDX	4.2	3.9	4	5.7	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW105
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW105 1 9GW1050001 2/23/99	09GW105 2 9GW1050002 4/30/99	09GW105 3 9GW1050003 8/4/99	09GW105 4 9GW1050004 11/2/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	199	1580	3340	356	50-200	3700	N
ANTIMONY	1.9 U	34.2 U	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	2.4	2.4 U	50	0.045	C
BARIUM	44.0 J	53.0	85.2	36.4	2000	260	N
BERYLLIUM	0.10 UL	0.64	0.98 B	0.42 B	4	7.3	N
CADMIUM	2.7 UL	3.0 U	3.0 U	3.2 U	5	3.7	N
CALCIUM	6980 J	7580	6220	6380	N/A	N/A	
CHROMIUM	13.0	8.5	51.6	2.5	100	11	N
COBALT	14.3	4.8	20.0 B	2.6 U	N/A	220	N
COPPER	14.7 B	4.5	6.1	7.4 B	1300	150	N
CYANIDE	10.0 U	1.5 B	1.4 U	1.3	200	73	N
IRON	1980 J	1560	9370	634	300	1100	N
LEAD	1.0 U	3.7	3.5	1.3 U	15	15	
MAGNESIUM	3530	3570	5020	2760	N/A	N/A	
MANGANESE	311	297	460	162	50	73	N
MERCURY	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	7.5 U	5.9 U	44.7 B	6.6 U	100	73	N
POTASSIUM	3240	2590	4650	2510 K	N/A	N/A	
SELENIUM	2.5 U	2.0 U	2.7 U	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	4.2 B	2.2 U	100	18	N
SODIUM	9490	10900	8670	9390	N/A	N/A	
THALLIUM	2.9 U	3.3 U	4.2 B	9.0 B	2	0.26	N
VANADIUM	2.1 U	5.1 U	8.5 B	2.9 U	N/A	26	N
ZINC	19.3 J	15.6 B	37.5 J	20.1 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				100	N/A	21	N
DISSOLVED OXYGEN	6540				N/A	N/A	
PERCHLORATES	5 U		8.4	16	N/A	N/A	
PH	5.89				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.114				N/A	N/A	
TEMPERATURE C	10.1				N/A	N/A	
TURBIDITY NTU	18.3				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB[illegible]ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW106
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW106 1 9GW1060001 2/23/99	09GW106 2 9GW1060002 5/13/99	09GW106 3 9GW1060003 8/10/99	09GW106 4 9GW1060004 11/2/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 U	5 UR	5 UR	N/A	190	N
ACETONE	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	0.84 J	0.84 B	0.53 J	0.76 J	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	0.28 B	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	0.17 J	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	3 J	5 U	2.1 J	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 U	0.1 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.052 U	0.05 U	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.052 U	0.05 U	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.052 U	0.05 U	0.035 J	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.66	0.71	0.74	N/A	180	N
RDX	2.8	5.3	4.8	4.6	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW106
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW106 1 9GW1060001 2/23/99	09GW106 2 9GW1060002 5/13/99	09GW106 3 9GW1060003 8/10/99	09GW106 4 9GW1060004 11/2/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	240	165 J	185	53.6 B	50-200	3700	N
ANTIMONY	1.9 U	1.2 U	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1 U	2.4 U	50	0.045	C
BARIUM	13.0 J	16.0	17.0 B	15.6	2000	260	N
BERYLLIUM	0.10 UL	0.07 U	0.17	0.10 U	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 U	3.2 U	5	3.7	N
CALCIUM	1050 J	932	878 B	908	N/A	N/A	
CHROMIUM	58.5	6.7 B	28.8	5.9	100	11	N
COBALT	31.0	13.8	31.0	5.1	N/A	220	N
COPPER	8.4 B	4.0 B	6.0	7.2 B	1300	150	N
CYANIDE	10.0 U	1.5 L	1.4 U	1.3	200	73	N
IRON	2810 J	1280	1510	391	300	1100	N
LEAD	1.0 U	0.92 UL	1.0 U	1.3 U	15	15	
MAGNESIUM	1030	962	949	908	N/A	N/A	
MANGANESE	73.0	77.4	52.0	42.4	50	73	N
MERCURY	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	53.8	9.4 B	21.4 K	6.6	100	73	N
POTASSIUM	1420	1170	1180	888 K	N/A	N/A	
SELENIUM	2.5 U	2.0 UJ	2.7 U	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	2.9 B	2.2 U	100	18	N
SODIUM	4040	4340 K	4530	4590	N/A	N/A	
THALLIUM	2.9 U	4.6 B	3.7 U	9.5 B	2	0.26	N
VANADIUM	2.4	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	22.4 J	27.4	18.9 B	20.4 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				100	N/A	21	N
DISSOLVED OXYGEN	5910				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	5.38				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.034				N/A	N/A	
TEMPERATURE C	17.3				N/A	N/A	
TURBIDITY NTU	160				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RF ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW107
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW107 1 9GW1070001 2/22/99	09GW107 2 9GW1070002 5/3/99	09GW107 3 9GW1070003 8/5/99	09GW107 4 9GW1070004 11/3/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1.0 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1.0 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1.0 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5.0 UR	5 UR	5 UR	5 UR	N/A	190	N
ACETONE	2.1 B	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1.0 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1.0 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1.0 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1.0 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1.0 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1.0 U	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1.0 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1.0 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	0.28 B	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1.0 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1.0 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1.0 U	1 U	1 U	1 U	5	1.6	C
XYLENES, TOTAL	1.0 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5.0 U	5 U	1.2 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5.0 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 U	0.10 UJ	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 U	0.050 UJ	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 U	0.050 UJ	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 U	0.050 UJ	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 UJ	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW107
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW107 1 9GW1070001 2/22/99	09GW107 2 9GW1070002 5/3/99	09GW107 3 9GW1070003 8/5/99	09GW107 4 9GW1070004 11/3/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	59.5 B	60.2 B	129	47.5 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	2.1 B	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.6	1.1 U	2.4 U	50	0.045	C
BARIUM	49.1	50.3	55.5	52.7	2000	260	N
BERYLLIUM	0.13 B	0.07 U	0.10 U	0.16 B	4	7.3	N
CADMIUM	2.7 UJ	3.0 U	3.0 UL	3.2 U	5	3.7	N
CALCIUM	3700	3700	3850	3770	N/A	N/A	
CHROMIUM	3.2 B	3.0 U	5.8 K	2.3 U	100	11	N
COBALT	3.3 U	2.5 U	3.8 U	2.6 U	N/A	220	N
COPPER	3.5	6.6	4.0 B	4.5 B	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	2.4	200	73	N
IRON	643 J	732	908	750	300	1100	N
LEAD	1.0 U	0.92 U	1.0 U	1.3 U	15	15	
MAGNESIUM	2190	2220	2460	2330	N/A	N/A	
MANGANESE	45.0	48.0	52.2	50.5	50	73	N
MERCURY	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	7.5 U	5.9 U	8.8 U	6.6 U	100	73	N
POTASSIUM	2720	2800 B	3110	2730 K	N/A	N/A	
SELENIUM	2.5 U	2.0 U	2.7 U	2.4 UJ	50	18	N
SILVER	2.9 B	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	41400	41500	44800	42600	N/A	N/A	
THALLIUM	3.0 B	3.3 U	5.8 B	9.2 B	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	7.0 B	19.8	10.3 B	16.2 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				300	N/A	21	N
DISSOLVED OXYGEN	3970				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	7.9				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.199				N/A	N/A	
TEMPERATURE C	12.4				N/A	N/A	
TURBIDITY NTU	1				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RP[illegible]ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW108
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW108 1 9GW1080001 2/21/99	09GW108 2 9GW1080002 5/3/99	09GW108 3 9GW1080003 8/5/99	09GW108 4 9GW1080004 10/29/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1.0 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1.0 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1.0 U	1 U	1. U	1 U	5	0.12	C
2-BUTANONE	5.0 UR	5 UR	5 UR	5 UR	N/A	190	N
ACETONE	2.0 B	5 UR	0.86 B	1.2 B	N/A	61	N
BENZENE	1.0 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1.0 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1.0 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1.0 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1.0 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1.0 U	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1.0 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	0.33 J	0.49 J	0.36 J	0.28 J	70	6.1	N
ETHYLBENZENE	1.0 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2.0 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	0.97 J	2	1.4	1.2	5	1.1	C
TOLUENE	1.0 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1.4	3.9	2.9	2.7	5	1.6	C
XYLENES, TOTAL	1.0 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5.0 U	5 U	3.7 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	1.2 J	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 UJ	0.10 UJ	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 UJ	0.050 UJ	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 UJ	0.050 UJ	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				120	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW108
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW108 1 9GW1080001 2/21/99	09GW108 2 9GW1080002 5/3/99	09GW108 3 9GW1080003 8/5/99	09GW108 4 9GW1080004 10/29/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	231 B	160	267	322	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	2.1 B	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.9 B	1.1 U	2.4 U	50	0.045	C
BARIUM	23.0	28.9	38.7	35.3	2000	260	N
BERYLLIUM	0.23 B	0.07 U	0.10 U	0.14 B	4	7.3	N
CADMIUM	3.7 B	3.0 U	3.0 UL	3.2 U	5	3.7	N
CALCIUM	8800	8680	9890	8440	N/A	N/A	
CHROMIUM	7.7 B	3.0 U	7.1 K	2.3 U	100	11	N
COBALT	4.7	2.5 U	19.2	3.6	N/A	220	N
COPPER	4.7	4.9	3.1 B	6.2	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	4340 J	4650	6160	4080 J	300	1100	N
LEAD	1.0 U	0.92 U	1.0 U	1.3 U	15	15	
MAGNESIUM	7110	6900	8000	7020	N/A	N/A	
MANGANESE	722	701	747	655	50	73	N
MERCURY	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	7.5 U	5.9 U	8.8 U	6.7	100	73	N
POTASSIUM	11300	9180	8570	8490	N/A	N/A	
SELENIUM	2.5 U	2.0 U	2.7 U	2.4 UL	50	18	N
SILVER	3.3 B	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	11400	9090	11700	12200	N/A	N/A	
THALLIUM	2.9 U	3.3 U	4.3 B	11.4 B	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	9.3 B	15.7	11.4 B	8.7 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA					N/A	21	N
DISSOLVED OXYGEN	8000				N/A	N/A	
PERCHLORATES	5 U		4 U		N/A	N/A	
PH	6.6				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.189				N/A	N/A	
TEMPERATURE C	12.8				N/A	N/A	
TURBIDITY NTU	9.5				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB[illegible]es have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW109
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW109 1 9TW0010001 12/21/98	09GW109 2 9TW0010002 5/11/99	09GW109 2 9GW1090002 5/11/99	09GW109 3 9GW1090003 8/4/99	09GW109 4 9GW1090004 11/2/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U		1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U		1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U		1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U		1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR		5 U	5.8 L	5 UR	N/A	190	N
ACETONE	12 L		5 UR	2.6 B	5 UR	N/A	61	N
BENZENE	0.19 J		1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U		1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U		1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U		1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U		1 U	1 U	1 U	100	11	N
CHLOROFORM	6.4		0.63 B	1.8	1.2	80	0.15	C
CHLOROMETHANE	1 U		1 U	0.76 J	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U		1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	0.11 J		1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	1.9 B		2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U		1 U	1 U	1 U	5	1.1	C
TOLUENE	0.36 J		1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U		1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U		1 U	1 U	1 U	5	1.6	C
XYLENES, TOTAL	0.52 B		1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)								
BIS(2-ETHYLHEXYL)PHTHALATE	5 U		5 U	15 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U		5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)								
4,4'-DDT	0.10 UL		0.1 U	0.1 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 UL		0.05 U	0.05 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 UL		0.05 U	0.05 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 UL		0.05 U	0.05 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)								
2,4,6-TRINITROTOLUENE	0.20 U		0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U		0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U		0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U		0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U		0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	2.4		1.8	3.6	2.6	N/A	180	N
RDX	5.8		2.1	5.7	3	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)								
TOTAL PETROLEUM HYDROCARBONS					1000 U	N/A	N/A	
TPH-DIESEL					100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW109
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW109 1 9TW0010001 12/21/98 -	09GW109 2 9TW0010002 5/11/99	09GW109 2 9GW1090002 5/11/99	09GW109 3 9GW1090003 8/4/99	09GW109 4 9GW1090004 11/2/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)								
ALUMINUM	38200 J		3370 J	17500	15800	50-200	3700	N
ANTIMONY	2.8 UL		1.2 U	2.2 B	1.8 U	6	1.5	N
ARSENIC	22.1		1.8 K	13.2	7.4	50	0.045	C
BARIUM	117		32.5	70.6	64.4	2000	260	N
BERYLLIUM	0.06 U		0.13 B	0.67 B	0.39 B	4	7.3	N
CADMIUM	0.20 U		3.0 UL	3.0 U	3.2 U	5	3.7	N
CALCIUM	6540		2550	3150	3280	N/A	N/A	
CHROMIUM	193		80.9 L	102	71.4	100	11	N
COBALT	15.9		7.0 B	16.6 B	10.	N/A	220	N
COPPER	65.4		10.9 B	30.7	30.1	1300	150	N
CYANIDE	2.7 U		1.1 U	1.4 U	1.3	200	73	N
IRON	75000		9340	54900	34300	300	1100	N
LEAD	30.5 J		2.4 L	17.8	12.3	15	15	
MAGNESIUM	4860		3540	3750	3560	N/A	N/A	
MANGANESE	449		67.5	318	160	50	73	N
MERCURY	0.79		0.10 U	0.35	0.37	2	1.1 (a)	N
NICKEL	23.5		46.2	8.8 U	9.7	100	73	N
POTASSIUM	3930		1540	2430 B	2190 K	N/A	N/A	
SELENIUM	19.4		3.1 J	5.4	2.4 UJ	50	18	N
SILVER	0.70 U		3.3 U	4.4 B	2.9	100	18	N
SODIUM	18600		14900 K	15500	12600	N/A	N/A	
THALLIUM	8.1 B		3.5 B	4.3 B	9.7 B	2	0.26	N
VANADIUM	179		22.6	113	72.9	N/A	26	N
ZINC	117 J		12.9	35.6 J	41.4 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)								
AMMONIA					200	N/A	21	N
DISSOLVED OXYGEN	11200	200				N/A	N/A	
PERCHLORATES	8.0 U			4	4 U	N/A	N/A	
PH	5.32	5.57				N/A	N/A	
SALINITY %	0.01	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.276	0.18				N/A	N/A	
TEMPERATURE C	14.8	11.5				N/A	N/A	
TURBIDITY NTU	999	505				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW110
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW110 1 9TW0020001 1/11/99	09GW110 2 9GW1100002 5/12/99	09GW110 3 9GW1100003 8/10/99	09GW110 4 9GW1100004 11/3/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 U	5 UR	5 UR	N/A	190	N
ACETONE	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1.1	1.2	0.9 J	1.4	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	0.28 J	0.3 J	1 U	0.29 J	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	0.79 B	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	0.28 J	0.25 J	1 U	0.24 J	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	2.2	2.3	1.5	2.3	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	3.7 J	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.0049 J	0.1 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 UJ	0.05 U	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 UJ	0.05 U	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.013 J	0.05 U	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	0.22	N
HMX	2.2	2.1	2.6	2.4	N/A	180	N
RDX	2.9	2.2	1.9	1.9	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 UJ	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW110
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW110 1 9TW0020001 1/11/99	09GW110 2 9GW1100002 5/12/99	09GW110 3 9GW1100003 8/10/99	09GW110 4 9GW1100004 11/3/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	5000	103 B	110	62.4 B	50-200	3700	N
ANTIMONY	2.8 U	1.2 U	1.7 U	1.8 U	6	1.5	N
ARSENIC	5.1 K	1.3 U	1.8 B	2.4 U	50	0.045	C
BARIUM	58.6	40.2	43.3	41.6	2000	260	N
BERYLLIUM	0.70 B	0.16 B	0.17 B	0.14 B	4	7.3	N
CADMIUM	0.20 U	3.0 UL	3.0 U	3.2 U	5	3.7	N
CALCIUM	4610	4450	4470 J	4220	N/A	N/A	
CHROMIUM	5.9	3.0 UL	2.4 U	2.7	100	11	N
COBALT	14.0	16.1	43.5	12.3	N/A	220	N
COPPER	6.3 B	4.3 B	2.4	5.7 B	1300	150	N
CYANIDE	2.7 U	1.1 U	1.4 U	2.4	200	73	N
IRON	7420	182	342	252	300	1100	N
LEAD	3.1 L	0.92 UL	1.0 U	1.3 U	15	15	
MAGNESIUM	3790	3710	3560	3360	N/A	N/A	
MANGANESE	1160	1150	1280	1170	50	73	N
MERCURY	0.10 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	10.7	11.8 B	11.1 K	8.5	100	73	N
POTASSIUM	3290	2280	2470	2480 K	N/A	N/A	
SELENIUM	2.8 UL	2.0 UJ	2.7 U	2.4 UJ	50	18	N
SILVER	0.70 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	10300	10400 K	11000	11100	N/A	N/A	
THALLIUM	5.6 U	3.3 U	3.7 U	10.1 B	2	0.26	N
VANADIUM	8.3	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	30.1 B	7.9	19.4 B	21.1 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200	N/A	21	N
DISSOLVED OXYGEN					N/A	N/A	
PERCHLORATES	7.9 L		7	8	N/A	N/A	
PH					N/A	N/A	
SALINITY %					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM					N/A	N/A	
TEMPERATURE C					N/A	N/A	
TURBIDITY NTU					N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RF ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW57D
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW57D 1 9GW57D0001 2/22/99	09GW57D 2 9GW57D0002 5/4/99	09GW57D 3 9GW57D0003 8/5/99	09GW57D 4 9GW57D0004 10/28/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1.0 U	2 U	1 U	2 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1.0 U	2 U	1 U	2 U	N/A	0.053	C
1,1-DICHLOROETHENE	1.0 U	2 U	1 U	2 U	7	0.044	C
1,2-DICHLOROETHANE	1.0 U	2 U	0.32 J	2 U	5	0.12	C
2-BUTANONE	5.0 UR	10 UR	5 UR	10 UR	N/A	190	N
ACETONE	1.9 B	10 UR	2.2 B	10 UR	N/A	61	N
BENZENE	1.0 U	2 U	1 U	2 U	5	0.36	C
BROMODICHLOROMETHANE	1.0 U	2 U	1 U	2 U	80	0.17	C
BROMOMETHANE	1.0 U	2 U	1 U	2 U	N/A	0.85	N
CARBON TETRACHLORIDE	1.0 U	2 U	1 U	2 U	5	0.16	C
CHLOROBENZENE	1.0 U	2 U	0.19 J	2 U	100	11	N
CHLOROFORM	1.8 B	2.4	2.2	3.1	80	0.15	C
CHLOROMETHANE	1.0 U	2 U	1 U	2 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	4.1	5	3.6	4.4	70	6.1	N
ETHYLBENZENE	1.0 U	2 U	1 U	2 U	700	130	N
METHYLENE CHLORIDE	2.0 U	4 U	2 U	4 U	5	4.1	C
TETRACHLOROETHENE	1.0 U	2 U	1 U	0.30 J	5	1.1	C
TOLUENE	1.0 U	2 U	1 U	2 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1.0 U	2 U	1 U	2 U	100	12	N
TRICHLOROETHENE	27	44	27 J	39	5	1.6	C
XYLENES, TOTAL	1.0 U	2 U	1 U	2 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5.0 U	1.4 B	5.2 B	1.6 J	6	4.8	C
DI-N-BUTYL PHTHALATE	5.0 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 U	0.10 U	0.1 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 U	0.050 U	0.05 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 U	0.050 U	0.05 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.05 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	2.5	2.5	2.8	2.6	N/A	180	N
RDX	6.1	6.5	6.7	5.5	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW57D
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW57D 1 9GW57D0001 2/22/99	09GW57D 2 9GW57D0002 5/4/99	09GW57D 3 9GW57D0003 8/5/99	09GW57D 4 9GW57D0004 10/28/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	21.4 B	157	34.6 B	28.5 B	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	2.0 B	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1 U	2.4 U	50	0.045	C
BARIUM	28.6	28.4	27.1	27.0	2000	260	N
BERYLLIUM	0.13 B	0.13 B	0.18 B	0.11 B	4	7.3	N
CADMIUM	2.7 UJ	3.0 U	3.0 U	3.2 U	5	3.7	N
CALCIUM	3550	3880	3380	3640	N/A	N/A	
CHROMIUM	2.3 U	6.2	2.4 UL	2.3 U	100	11	N
COBALT	3.3 U	10.9 B	3.8 U	2.6 U	N/A	220	N
COPPER	2.4 U	5.6	1.4 U	5.4 B	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	65.8 B	316 B	9.2 U	29.7 B	300	1100	N
LEAD	1.0 U	0.92 U	1.0 U	1.3 U	15	15	
MAGNESIUM	2070	2100	2070	2050	N/A	N/A	
MANGANESE	13.7	18.3	12.4	12.0	50	73	N
MERCURY	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	7.5 U	5.9 U	8.8 U	6.6 U	100	73	N
POTASSIUM	1110 B	1700 B	1240 B	1390 B	N/A	N/A	
SELENIUM	2.5 U	2.0 U	2.7 U	2.4 UL	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	9370	10200	9320	9840	N/A	N/A	
THALLIUM	2.9 U	3.3 U	4.4 B	9.8 B	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	3.2 B	19.3	5.8 B	8.8 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	6650				N/A	N/A	
PERCHLORATES	39.1 K		27	34	N/A	N/A	
PH	5.26				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.094				N/A	N/A	
TEMPERATURE C	15.7				N/A	N/A	
TURBIDITY NTU	0.52				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All R' 'ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW57S
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW57S 1 9GW57S0001 2/22/99	09GW57S 2 9GW57S0002 5/4/99	09GW57S 3 9GW57S0003 8/5/99	09GW57S 4 9GW57S0004 10/27/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1.0 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1.0 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1.0 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5.0 UR	5 UR	5 UR	5 UR	N/A	190	N
ACETONE	5.0 UR	5 UR	2 B	5 UR	N/A	61	N
BENZENE	1.0 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1.0 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1.0 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1.0 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1.0 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	0.92 B	0.85 J	1.5	0.5 J	80	0.15	C
CHLOROMETHANE	1.0 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	0.95 J	1	0.96 J	0.16 J	70	6.1	N
ETHYLBENZENE	1.0 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2.0 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1.0 U	1 U	0.19 J	1 U	5	1.1	C
TOLUENE	1.0 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	11 J	11	8.9	2.2	5	1.6	C
XYLENES, TOTAL	1.0 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5.0 U	5 U	7.8 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5.0 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 U	0.10 UJ	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 U	0.050 UJ	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 U	0.050 UJ	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 U	0.050 UJ	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.88	0.68	1.1	0.78	N/A	180	N
RDX	1.5	0.85	1.9	0.93	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW57S
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW57S 1 9GW57S0001 2/22/99	09GW57S 2 9GW57S0002 5/4/99	09GW57S 3 9GW57S0003 8/5/99	09GW57S 4 9GW57S0004 10/27/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	108000	22800	10400	2970	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.8 U	6	1.5	N
ARSENIC	22.7	8.0 B	2.8	2.4 U	50	0.045	C
BARIUM	369	90.0	43.2	27.4	2000	260	N
BERYLLIUM	8.3	1.6	0.70 B	0.42 B	4	7.3	N
CADMIUM	2.7 UJ	3.1	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	5570	4150	3300	3520	N/A	N/A	
CHROMIUM	144	38.4	14.2 K	5.2	100	11	N
COBALT	87.5 K	25.8	30.2	20.5	N/A	220	N
COPPER	129	34.1	13.6	8.9 L	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	136000 J	37700	11800	6890	300	1100	N
LEAD	58.7	15.1	3.3	1.3 U	15	15	
MAGNESIUM	14000	6480	4260	4120	N/A	N/A	
MANGANESE	1390	297	131	63.2	50	73	N
MERCURY	0.27	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	70.8 L	19.1 B	9.4	7.9	100	73	N
POTASSIUM	6920	2590 B	1920 B	940	N/A	N/A	
SELENIUM	6.4 K	2.0 U	2.7 U	2.4 UJ	50	18	N
SILVER	6.9 B	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	7620	8390	7800	7790	N/A	N/A	
THALLIUM	4.9 B	3.4	8.9 B	7.0 B	2	0.26	N
VANADIUM	203	50.4	17.8	9.0	N/A	26	N
ZINC	161	53.1	40.0	16.1 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	8450				N/A	N/A	
PERCHLORATES	17.6 K		16	8 U	N/A	N/A	
PH	5.39				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.095				N/A	N/A	
TEMPERATURE C	3.8				N/A	N/A	
TURBIDITY NTU	999				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW58
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW58 1 9GW580001 2/21/99	09GW58 2 9GW580002 5/4/99	09GW58 3 9GW0580003 8/4/99	09GW58 4 9GW580004 10/26/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1.0 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1.0 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1.0 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5.0 UR	5 UR	6.2 L	5 UR	N/A	190	N
ACETONE	1.9 B	5 UR	5.3 B	5 UR	N/A	61	N
BENZENE	1.0 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1.0 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1.0 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1.0 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1.0 U	1 U	0.16 J	1 U	100	11	N
CHLOROFORM	0.70 B	1.8	2.4	3	80	0.15	C
CHLOROMETHANE	1.0 U	1 U	0.85 J	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1.0 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2.0 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	0.62 J	1 U	1 U	1 U	5	1.1	C
TOLUENE	1.0 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1.0 U	1 U	1 U	1 U	5	1.6	C
XYLENES, TOTAL	1.0 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	2.0 J	5 U	51	1.8 B	6	4.8	C
DI-N-BUTYL PHTHALATE	1.4 J	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 UL	0.10 UJ	0.1 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 UL	0.050 UJ	0.05 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 UL	0.050 UJ	0.05 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 UL	0.050 UJ	0.038 J	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.40 U	0.8 U	1 U	0.6 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.40 U	0.8 U	1 U	0.6 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.41	0.8 U	1 U	1	N/A	0.22	N
3-NITROTOLUENE	0.40 U	0.8 U	1 U	0.6 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.40 U	0.8 U	1 U	0.92	N/A	0.22	N
HMX	9.8	12	13	15	N/A	180	N
RDX	17	21	23	23	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				1000	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW58
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW58 1 9GW580001 2/21/99	09GW58 2 9GW580002 5/4/99	09GW58 3 9GW0580003 8/4/99	09GW58 4 9GW580004 10/26/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	21200	4430	10500	4730	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.8 U	6	1.5	N
ARSENIC	24.4	8.8	9.0	5.9	50	0.045	C
BARIUM	98.6	45.9	119	54.2	2000	260	N
BERYLLIUM	0.89 B	0.22 B	0.70 B	0.19 B	4	7.3	N
CADMIUM	2.7 UJ	3.0 U	3.1	3.2 UL	5	3.7	N
CALCIUM	4710	3260	6710	4340	N/A	N/A	
CHROMIUM	148	39.8	106	30.0	100	11	N
COBALT	18.7	6.1 B	48.5	13.1	N/A	220	N
COPPER	84.0	26.4	79.6	31.0 L	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	93200 J	25600	95200	22100	300	1100	N
LEAD	35.0	8.2	35.7	7.1	15	15	
MAGNESIUM	6670	4920	5660	5420	N/A	N/A	
MANGANESE	95.8	53.2	93.8	51.3	50	73	N
MERCURY	4.2	2.5	8.2	2.7	2	1.1 (a)	N
NICKEL	8.3	5.9 U	15.1 B	9.3	100	73	N
POTASSIUM	3150	2140 B	2910	1850	N/A	N/A	
SELENIUM	12.2	5.0	2.7 U	7.1 J	50	18	N
SILVER	8.9 B	3.4	12.5 B	2.2 U	100	18	N
SODIUM	23600	17500	16500	18400	N/A	N/A	
THALLIUM	2.9 U	3.3 U	3.7 UL	5.0 UL	2	0.26	N
VANADIUM	209	51.5	121	44.3	N/A	26	N
ZINC	26.4	20.8	38.5 J	14.9 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				400 U	N/A	21	N
DISSOLVED OXYGEN	6890				N/A	N/A	
PERCHLORATES	16 K		12	4 U	N/A	N/A	
PH	5.04				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.215				N/A	N/A	
TEMPERATURE C	13.6				N/A	N/A	
TURBIDITY NTU	999				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW59
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW59 1 9GW590001 2/24/99	09GW59 2 9GW590002 5/12/99	09GW59 3 9GW590003 8/9/99	09GW59 4 9GW590004 10/28/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 U	5 UR	5 UR	N/A	190	N
ACETONE	5 UR	5 UR	1.6 B	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1.1	2	1.5	0.99 J	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	0.46 B	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	120	0.95 J	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.11 U	0.1 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.054 U	0.05 U	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.054 U	0.05 U	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.054 U	0.05 U	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2	0.2 U	0.2 U	N/A	0.22	N
HMX	0.78	1.5	2.3	1.0	N/A	180	N
RDX	1.4	3	4.2	1.5	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW59
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW59 1 9GW590001 2/24/99	09GW59 2 9GW590002 5/12/99	09GW59 3 9GW590003 8/9/99	09GW59 4 9GW590004 10/28/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	140	220 J	1800	155	50-200	3700	N
ANTIMONY	1.9 U	1.2 U	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.3	2.4 U	50	0.045	C
BARIUM	35.6 J	48.6	56.9	37.5	2000	260	N
BERYLLIUM	0.10 UL	0.10 B	0.18 B	0.16 B	4	7.3	N
CADMIUM	3.6 UL	3.0 UL	3.0 UL	3.2 U	5	3.7	N
CALCIUM	6140 J	6550	5430	5200	N/A	N/A	
CHROMIUM	8.8	3.0 UL	14.7 K	2.3 U	100	11	N
COBALT	18.7	3.2 B	15.5	3.6	N/A	220	N
COPPER	4.3 B	7.1 B	9.5	5.6	1300	150	N
CYANIDE	10.0 U	1.2	1.4 U	1.2 U	200	73	N
IRON	246 B	370	2920	182 J	300	1100	N
LEAD	1.0 U	0.92 UL	1.0 U	1.3 U	15	15	
MAGNESIUM	2250	3110	3720	2080	N/A	N/A	
MANGANESE	30.5	46.2	58.0	43.1	50	73	N
MERCURY	0.20 U	0.10 U	0.61	0.07 U	2	1.1 (a)	N
NICKEL	7.5 U	8.2 B	11.9	6.6 U	100	73	N
POTASSIUM	1250	1200	1950 B	1260 B	N/A	N/A	
SELENIUM	2.5 U	2.0 UJ	2.7 U	2.4 UL	50	18	N
SILVER	2.8 U	3.3 U	2.4 K	2.2 U	100	18	N
SODIUM	9390	14400 K	18000	10400	N/A	N/A	
THALLIUM	2.9 U	3.9 B	5.9 B	7.3 B	2	0.26	N
VANADIUM	2.1 U	5.1 U	4.5	2.9 U	N/A	26	N
ZINC	16.6 J	16.9	15.5 B	10.5 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	7450				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	4.99				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.095				N/A	N/A	
TEMPERATURE C	11.5				N/A	N/A	
TURBIDITY NTU	10				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC [illegible]es have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW74
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW74 1 9GW740001 2/24/99	09GW74 2 9GW740002 5/12/99	09GW74 3 9GW740003 8/10/99	09GW74 4 9GW740004 11/3/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 U	5 UR	5 UR	N/A	190	N
ACETONE	1.7 B	5 UR	2.4 B	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	0.24 J	0.22 J	0.27 J	0.29 J	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1.5	0.97 B	1.5	2	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	0.23 B	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1.1 J	0.89 J	1.1	1.3	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	2.1 J	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 U	0.1 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.052 U	0.05 U	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.052 U	0.05 U	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.052 U	0.05 U	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.50 U	0.5 U	N/A	180	N
RDX	1.4	1.1	1.6	1.5	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000	N/A	N/A	
TPH-DIESEL				100 UJ	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW74
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW74 1 9GW740001 2/24/99	09GW74 2 9GW740002 5/12/99	09GW74 3 9GW740003 8/10/99	09GW74 4 9GW740004 11/3/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	1090	6580 J	2210	462	50-200	3700	N
ANTIMONY	1.9 U	1.2 U	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.7 B	2.4 U	50	0.045	C
BARIUM	49.7 J	89.7	55.4	41.6	2000	260	N
BERYLLIUM	0.10 UL	0.82 B	0.45 B	0.19 B	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 U	3.2 U	5	3.7	N
CALCIUM	6180 J	6440	6360 J	5820	N/A	N/A	
CHROMIUM	11.0	19.6 B	15.8 K	7.9	100	11	N
COBALT	3.3 U	11.2 B	5.1	2.6 U	N/A	220	N
COPPER	6.9 B	23.7	8.9	7.1 B	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.5	200	73	N
IRON	3430 J	17100	6280	1410	300	1100	N
LEAD	1.5 B	2.8 L	1.7 K	1.3 U	15	15	
MAGNESIUM	4850	7040	5100	4160	N/A	N/A	
MANGANESE	95.7	388	130	54.6	50	73	N
MERCURY	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	23.2	30.0 B	23.9 K	10.1	100	73	N
POTASSIUM	2910	4200	2930	2400 K	N/A	N/A	
SELENIUM	2.5 U	2.0 UJ	2.7 U	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	8790	8510 K	8060	8320	N/A	N/A	
THALLIUM	2.9 U	5.5 B	3.7 U	8.4 B	2	0.26	N
VANADIUM	2.1 U	16.6	5.9 B	2.9 U	N/A	26	N
ZINC	53.3 J	66.5	43.1	27.1 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				100	N/A	21	N
DISSOLVED OXYGEN	8820				N/A	N/A	
PERCHLORATES	14.9 K		8.4	7	N/A	N/A	
PH	5.47				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.112				N/A	N/A	
TEMPERATURE C	14.3				N/A	N/A	
TURBIDITY NTU	22.1				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB' es have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW75
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW75 1 9GW750001 2/23/99	09GW75 2 9GW750002 5/12/99	09GW75 3 9GW750003 8/10/99	09GW75 4 9GW750004 10/27/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 R	5 U	5 UR	5 UR	N/A	190	N
ACETONE	5 R	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1 U	1 U	2.1	1 U	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	11 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 U	0.1 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.051 U	0.05 U	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.051 U	0.05 U	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.051 U	0.05 U	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	2.7	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	4.3	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW75
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW75 1 9GW750001 2/23/99	09GW75 2 9GW750002 5/12/99	09GW75 3 9GW750003 8/10/99	09GW75 4 9GW750004 10/27/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	34.4 B	88.6 B	14000	503	50-200	3700	N
ANTIMONY	1.9 U	1.2 U	3.5 B	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	8.9	2.4 U	50	0.045	C
BARIUM	14.8 J	25.6	58.8	18.5	2000	260	N
BERYLLIUM	0.10 UL	0.07 U	0.48 B	0.10 U	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 UL	3.2 UL	5	3.7	N
CALCIUM	4640 J	7470	4470	5280	N/A	N/A	
CHROMIUM	4.7	3.0 B	77.2	2.4	100	11	N
COBALT	3.3 U	2.6 B	6.1 B	2.6 U	N/A	220	N
COPPER	2.4 U	5.5 B	40.4	5.1 L	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	78.2 B	152	55000	2110	300	1100	N
LEAD	1.0 U	0.92 UL	22.5	1.3 U	15	15	
MAGNESIUM	5060	7780	4880	5000	N/A	N/A	
MANGANESE	12.4	32.0	68.4	23.6	50	73	N
MERCURY	0.20 U	0.10 U	0.38	0.10	2	1.1 (a)	N
NICKEL	7.5 U	6.1 B	22.0	6.6 U	100	73	N
POTASSIUM	1590	1880	3150	1480	N/A	N/A	
SELENIUM	2.5 U	2.0 UJ	8.0 B	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	20400	27500 K	18200	15800	N/A	N/A	
THALLIUM	2.9 U	4.5 B	7.2 B	7.3 B	2	0.26	N
VANADIUM	2.1 U	5.1 U	61.3	2.9 U	N/A	26	N
ZINC	43.0 J	3.2	18.0 B	9.9 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	5400				N/A	N/A	
PERCHLORATES	5 U		4 U	8 U	N/A	N/A	
PH	5.51				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.18				N/A	N/A	
TEMPERATURE C	15.5				N/A	N/A	
TURBIDITY NTU	1.55				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB[illegible]es have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW83
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW83 1 9GW830001 2/23/99	09GW83 2 9GW830002 5/3/99	09GW83 3 9GW830003 8/10/99	09GW83 4 9GW830004 10/28/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 UR	5 UR	5 UR	N/A	190	N
ACETONE	5 UR	5 U	5 UR	3.0 B	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	0.2 J	0.36 J	0.17 J	0.28 B	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	1.7 J	5.8 B	1.7 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.11 UJ	0.10 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.053 UJ	0.050 U	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.053 UJ	0.050 U	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.053 UJ	0.050 U	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09GW83
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09GW83 1 9GW830001 2/23/99	09GW83 2 9GW830002 5/3/99	09GW83 3 9GW830003 8/10/99	09GW83 4 9GW830004 10/28/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	5170	3230	1570	96.5	50-200	3700	N
ANTIMONY	2.0	34.2 UL	1.8 B	1.8 U	6	1.5	N
ARSENIC	2.0	1.4 B	1.1 U	2.4 U	50	0.045	C
BARIUM	87.2 J	65.6	47.4	40.0	2000	260	N
BERYLLIUM	0.10 UL	0.44 B	0.19 B	0.10 U	4	7.3	N
CADMIUM	2.7 UL	3.0 U	3.0 UL	3.2 U	5	3.7	N
CALCIUM	8890 J	6850	7230	9130	N/A	N/A	
CHROMIUM	9.4	5.3	2.4 U	2.3 U	100	11	N
COBALT	12.3	12.2 B	3.8 U	2.6 U	N/A	220	N
COPPER	6.0 B	5.7	4.6 B	7.1	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	16100 J	10200	4630	299 J	300	1100	N
LEAD	4.8 B	5.4	1.4	1.3 U	15	15	
MAGNESIUM	7730	5970	5080	6170	N/A	N/A	
MANGANESE	1930	1110	702	742	50	73	N
MERCURY	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	17.0	6.0 B	8.8 U	7.7	100	73	N
POTASSIUM	6760	4790	4500	3820	N/A	N/A	
SELENIUM	2.5 U	2.0 U	2.7 U	2.4 UL	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	10200	9140	9600	10900	N/A	N/A	
THALLIUM	3.5 B	3.3 U	6.1 B	6.6 B	2	0.26	N
VANADIUM	10.9 B	7.5	2.4 U	2.9 U	N/A	26	N
ZINC	33.7 J	44.3	19.5 B	9.9 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	1610				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	5.37				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.153				N/A	N/A	
TEMPERATURE C	9.1				N/A	N/A	
TURBIDITY NTU	330				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB es have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09PZ44
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09PZ44 1 9GW440001 2/22/99	09PZ44 2 9GW440002 5/4/99	09PZ44 3 9GW440003 8/4/99	09PZ44 4 9GW440004 11/8/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	0.34 J	0.37 J	0.44 J	0.35 J	200	54	N
1,1,2,2-TETRACHLOROETHANE	1.0 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1.0 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5.0 UR	5 UR	5 UR	5 UR	N/A	190	N
ACETONE	1.9 B	5 UR	1.5 B	5 UR	N/A	61	N
BENZENE	1.0 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	0.42 B	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1.0 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1.0 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1.0 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	9.6 B	11	8.4	10	80	0.15	C
CHLOROMETHANE	1.0 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1.0 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	0.37 B	0.25 J	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1.0 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1.0 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1.0 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1.0 U	1 U	1 U	1 U	5	1.6	C
XYLENES, TOTAL	1.0 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5.2 U	5.5 B		5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5.2 U	5.2 U		5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 UJ	0.1 U		0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 UJ	0.05 U		0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 UJ	0.05 U		0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 UJ	0.05 U		0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U		0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U		0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U		0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U		0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U		0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U		0.55	N/A	180	N
RDX	0.50 U	0.5 U		0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				350	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09PZ44
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09PZ44 1 9GW440001 2/22/99	09PZ44 2 9GW440002 5/4/99	09PZ44 3 9GW440003 8/4/99	09PZ44 4 9GW440004 11/8/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	5830	1680 J	1300	708	50-200	3700	N
ANTIMONY	2.3 B	1.2 U	2.3 B	1.8 U	6	1.5	N
ARSENIC	4.3	1.4 K	1.1	2.4 U	50	0.045	C
BARIUM	117 J	64.8	60.2	73.4	2000	260	N
BERYLLIUM	0.10 UL	0.31 B	0.37 B	0.39 B	4	7.3	N
CADMIUM	2.7 UL	8.0 B	6.7 L	9.9 L	5	3.7	N
CALCIUM	5260 J	5600	5800	7850	N/A	N/A	
CHROMIUM	32.9	9.0 B	7.1 K	3.9	100	11	N
COBALT	36.9	16.5	12.1	23.8	N/A	220	N
COPPER	56.1	29.4	22.8	64.3	1300	150	N
CYANIDE	10.0 U	1.1 U		1.9	200	73	N
IRON	22600 J	5460	4590	3250	300	1100	N
LEAD	25.2	5.8 L	4.1	6.6	15	15	
MAGNESIUM	6980	5160	4970	6540	N/A	N/A	
MANGANESE	1840	820	756	990	50	73	N
MERCURY	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	36.0	37.6	31.9	37.4	100	73	N
POTASSIUM	7700	4300	4260	4420	N/A	N/A	
SELENIUM	2.5 U	2.0 UJ	2.7 U	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	47800	47700 K	49200	50900	N/A	N/A	
THALLIUM	2.9 U	3.3 U	4.1 B	5.7 B	2	0.26	N
VANADIUM	18.6	8.8	5.6	2.9 U	N/A	26	N
ZINC	98.2 J	62.7	65.3	88.9	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200	N/A	21	N
DISSOLVED OXYGEN					N/A	N/A	
PERCHLORATES	5 U			4 U	N/A	N/A	
PH					N/A	N/A	
SALINITY %					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM					N/A	N/A	
TEMPERATURE C					N/A	N/A	
TURBIDITY NTU					N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB ies have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09PZ55
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09PZ55 1 9GW550001 2/24/99	09PZ55 2 9GW550002 5/4/99	09PZ55 3 9GW550003 8/4/99	09PZ55 4 9GW550004 10/27/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 UR	3.1 L	5 UR	N/A	190	N
ACETONE	5 UR	5 UR	3.8 U	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	0.92 J	0.74 J	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	6.2	6	4.8	5.7	80	0.15	C
CHLOROMETHANE	1 U	1 U	0.6 J	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	0.99 J	0.75 J	0.77 J	1.1	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	2 B	1.6 B	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 UJ	0.10 UJ	0.1 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 UJ	0.050 UJ	0.05 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 UJ	0.050 UJ	0.05 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 UJ	0.050 UJ	0.05 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.30	0.35	0.32 J	0.25	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.2 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.5 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09PZ55
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09PZ55 1 9GW550001 2/24/99	09PZ55 2 9GW550002 5/4/99	09PZ55 3 9GW550003 8/4/99	09PZ55 4 9GW550004 10/27/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	9260	3990	5100	1330	50-200	3700	N
ANTIMONY	1.9 U	34.2 UL	1.7 U	1.8 U	6	1.5	N
ARSENIC	10.7	6.7 B	7.8	2.4 U	50	0.045	C
BARIUM	45.6 J	33.2	40.2	28.6	2000	260	N
BERYLLIUM	0.10 UL	0.16 B	0.30 B	0.10 B	4	7.3	N
CADMIUM	2.7 UL	3.0 U	3.0 U	3.2 UL	5	3.7	N
CALCIUM	2390 J	1990	1650	2240	N/A	N/A	
CHROMIUM	51.0	32.0	34.0	9.2	100	11	N
COBALT	4.6	3.0 B	7.2 B	2.6 U	N/A	220	N
COPPER	44.5	24.3	35.3	8.7 L	1300	150	N
CYANIDE	10.0 U	1.6 B	1.4 U	1.2 U	200	73	N
IRON	55100 J	32400	40000	1.2	300	1100	N
LEAD	15.5	8.3	11.1	1.5	15	15	
MAGNESIUM	2410	2110	2360	2420	N/A	N/A	
MANGANESE	42.8	27.7	30.0	17.6	50	73	N
MERCURY	0.96	0.93	1.1	0.18	2	1.1 (a)	N
NICKEL	9.4	5.9 U	8.8 U	6.6 U	100	73	N
POTASSIUM	2140	1770 B	2190 B	1250	N/A	N/A	
SELENIUM	8.2	2.0 U	9.1	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	5.9 B	2.2 U	100	18	N
SODIUM	7630	6980	6850	7700	N/A	N/A	
THALLIUM	2.9 U	3.3 U	4.0 B	9.2 B	2	0.26	N
VANADIUM	71.0	38.7	51.6	12.2	N/A	26	N
ZINC	20.9 J	40.5	25.2 J	21.1 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				400 U	N/A	21	N
DISSOLVED OXYGEN					N/A	N/A	
PERCHLORATES	5 U		4 U	8 U	N/A	N/A	
PH					N/A	N/A	
SALINITY %					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM					N/A	N/A	
TEMPERATURE C					N/A	N/A	
TURBIDITY NTU					N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB[illegible]ies have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09PZ56
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09PZ56 2 9GW560002 5/12/99	09PZ56 4 9GW560004 10/27/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)					
1,1,1-TRICHLOROETHANE	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	5	0.12	C
2-BUTANONE	5 U	5 UR	N/A	190	N
ACETONE	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	100	11	N
CHLOROFORM	1.4	1.5	80	0.15	C
CHLOROMETHANE	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	5	1.6	C
XYLENES, TOTAL	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)					
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)					
4,4'-DDT	0.1 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.058	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.055	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.05 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)					
2,4,6-TRINITROTOLUENE	0.4 U	0.6 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.4 U	0.6 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.4 U	0.6 U	N/A	0.22	N
3-NITROTOLUENE	0.4 U	0.6 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.4 U	0.6 U	N/A	0.22	N
HMX	18	22	N/A	180	N
RDX	12	14	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)					
TOTAL PETROLEUM HYDROCARBONS		1000 U	N/A	N/A	
TPH-DIESEL		100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #09PZ56
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	09PZ56 2 9GW560002 5/12/99	09PZ56 4 9GW560004 10/27/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)					
ALUMINUM	10300 J	97.6	50-200	3700	N
ANTIMONY	1.2 U	1.8 U	6	1.5	N
ARSENIC	4.6 K	2.4 U	50	0.045	C
BARIUM	119	23.2	2000	260	N
BERYLLIUM	1.1 B	0.10 U	4	7.3	N
CADMIUM	3.0 UL	3.2 U	5	3.7	N
CALCIUM	10600	5220	N/A	N/A	
CHROMIUM	15.6 B	2.3 U	100	11	N
COBALT	9.2 B	2.6 U	N/A	220	N
COPPER	36.1	7.2	1300	150	N
CYANIDE	1.2	1.2 U	200	73	N
IRON	22600	223 J	300	1100	N
LEAD	8.6 L	1.3 U	15	15	
MAGNESIUM	3710	1310	N/A	N/A	
MANGANESE	213	35.6	50	73	N
MERCURY	0.16	0.07 U	2	1.1 (a)	N
NICKEL	15.3 B	6.6 U	100	73	N
POTASSIUM	3850	2770	N/A	N/A	
SELENIUM	2.0 UJ	2.4 UL	50	18	N
SILVER	3.3 U	2.2 U	100	18	N
SODIUM	29000 K	27700	N/A	N/A	
THALLIUM	6.3 B	8.4 B	2	0.26	N
VANADIUM	39.6	2.9 U	N/A	26	N
ZINC	76.9	27.9 K	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)					
AMMONIA		200 U	N/A	21	N
DISSOLVED OXYGEN			N/A	N/A	
PERCHLORATES		10	N/A	N/A	
PH			N/A	N/A	
SALINITY %			N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM			N/A	N/A	
TEMPERATURE C			N/A	N/A	
TURBIDITY NTU			N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RF ues have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #BLD367
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	BLD367 1 9GWBLD3670001 2/24/99	BLD367 2 9GWBLDG3670002 5/6/99	BLD367 3 9GWBLDG3670003 8/10/99	BLD367 4 9GWBLD3670004 11/1/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 U	5 UR	5 UR	N/A	190	N
ACETONE	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1 U	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	6.1	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 U	0.1 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.052 U	0.05 U	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.052 U	0.05 U	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.052 U	0.05 U	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.50 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.50 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #BLD367
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	BLD367 1 9GWBLD3670001 2/24/99	BLD367 2 9GWBLDG3670002 5/6/99	BLD367 3 9GWBLDG3670003 8/10/99	BLD367 4 9GWBLD3670004 11/1/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	12.7 U	17.9 B	33.7	16.2 U	50-200	3700	N
ANTIMONY	1.9 U	1.2 U	1.7 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1 U	2.4 U	50	0.045	C
BARIUM	72.2 J	49.5	71.4	40.6	2000	260	N
BERYLLIUM	0.10 UL	0.07 U	0.11 U	0.10 U	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 U	3.2 U	5	3.7	N
CALCIUM	9190 J	7770	9460 J	7310	N/A	N/A	
CHROMIUM	2.3 U	3.0 UL	2.4 U	2.3 U	100	11	N
COBALT	3.3 U	2.5 U	3.8 U	2.6 U	N/A	220	N
COPPER	2.4 U	2.4 U	2.9	6.2	1300	150	N
CYANIDE	10.0 U	1.1 UL	1.4 U	1.2 U	200	73	N
IRON	4710 J	3730	5900	2400 J	300	1100	N
LEAD	1.0 U	0.92 UL	1.0 U	1.3 U	15	15	
MAGNESIUM	7310	5860	7040	5350	N/A	N/A	
MANGANESE	116	85.3	119	73.2	50	73	N
MERCURY	0.20 U	0.10 U	0.10 U	0.07 U	2	1.1 (a)	N
NICKEL	7.5 U	5.9 U	8.8 U	6.6 U	100	73	N
POTASSIUM	4350	3830	4020	3860	N/A	N/A	
SELENIUM	2.5 U	2.0 UJ	2.7 U	2.4 UL	50	18	N
SILVER	2.8 U	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	4730	4020 K	4810	4310	N/A	N/A	
THALLIUM	2.9 U	4.4 B	4.9	8.7 B	2	0.26	N
VANADIUM	2.1 U	5.1 U	2.4 U	2.9 U	N/A	26	N
ZINC	627 J	355	801	264	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				100	N/A	21	N
DISSOLVED OXYGEN	2180				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	6.99				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.137				N/A	N/A	
TEMPERATURE C	12.1				N/A	N/A	
TURBIDITY NTU	9.2				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB[illegible]ies have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #C-05
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	C-05 1 9GWC50001 2/17/99	C-05 2 9GWC50002 5/11/99	C-05 3 9GWC50003 8/11/99	C-05 4 9GWC50004 11/4/99 9GWC50004-D	C-05 4 9GWC50004-D 11/4/99 9GWC50004	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 U	5 UR	5 UR	5 UR	N/A	190	N
ACETONE	5 UR	5 UR	5 UR	5 UR	5 UR	N/A	61	N
BENZENE	1 U	1 U	1 U	1 U	1 U	5	0.36	C
BROMODICHLOROMETHANE	0.32 J	0.47 J	0.36 J	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	0.49 J	0.64 J	0.85 J	0.9 J	0.94 J	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	4.8	7.6	5.4	8	8.1	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	1 U	1 U	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1.2	1.4	1.6	2	2.1	5	1.6	C
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	10000	1200	N
SEMIVOLATILES (µg/L)								
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	1.9 B	43	5 U	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)								
4,4'-DDT	0.10 U	0.1 U	0.10 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 U	0.05 U	0.050 U	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 U	0.05 U	0.050 U	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 U	0.05 U	0.050 U	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)								
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.29	0.26	0.26	0.25	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	0.2 U	N/A	0.22	N
HMX	2.2	1.8	1.8	1.7	1.8	N/A	180	N
RDX	6.5	7.5	7.2	6.5 J	7.1 J	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)								
TOTAL PETROLEUM HYDROCARBONS				1000 U	1000 U	N/A	N/A	
TPH-DIESEL				100 UJ	100 UJ	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #C-05
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	C-05 1 9GWC50001 2/17/99	C-05 2 9GWC50002 5/11/99	C-05 3 9GWC50003 8/11/99	C-05 4 9GWC50004 11/4/99 9GWC50004-D	C-05 4 9GWC50004-D 11/4/99 9GWC50004	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)								
ALUMINUM	411	99.9 B	68.5	75.5 B	70.9 B	50-200	3700	N
ANTIMONY	1.9 U	1.2 U	1.7 U	1.8 U	1.8 U	6	1.5	N
ARSENIC	1.5 U	1.3 U	1.1 U	2.4 U	2.4 U	50	0.045	C
BARIUM	39.5	40.2	37.4	36.7	37.9	2000	260	N
BERYLLIUM	0.10 U	0.08 B	0.20 B	0.10 U	0.10 B	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 U	3.2 U	3.2 U	5	3.7	N
CALCIUM	3320	3640	3140 B	3280	3450	N/A	N/A	
CHROMIUM	5.5 B	3.3 B	2.8 K	4.3	6.2	100	11	N
COBALT	5.0 B	4.5 B	18.8	2.6 U	2.8	N/A	220	N
COPPER	3.1	6.2 B	1.6	4.7 B	5.9 B	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	1.2 U	200	73	N
IRON	836	216	62.0	195 K	185 K	300	1100	N
LEAD	1.0 U	0.92 UL	1.0 U	1.3 U	1.3 U	15	15	
MAGNESIUM	3430	3870	3430	3410	3530	N/A	N/A	
MANGANESE	167	137	168	117	117	50	73	N
MERCURY	0.20 UL	0.10 U	0.10 U	0.07 U	0.072 U	2	1.1 (a)	N
NICKEL	13.6	15.3 B	16.4 K	6.6 U	6.6 U	100	73	N
POTASSIUM	2190 B	2020	1760	1690 K	1890 K	N/A	N/A	
SELENIUM	2.5 U	2.0 UJ	2.7 U	2.4 UJ	2.4 UJ	50	18	N
SILVER	2.8 U	3.3 U	2.5 B	2.2 U	2.2 U	100	18	N
SODIUM	8280	9480 K	7770	7970	8260	N/A	N/A	
THALLIUM	2.9 U	3.3 U	3.7 U	10.7 B	10.1 B	2	0.26	N
VANADIUM	2.8	5.1 U	2.4 U	2.9 U	2.9 U	N/A	26	N
ZINC	13.0	25.3	8.3 B	15.2 B	15.8 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)								
AMMONIA				90	100	N/A	21	N
DISSOLVED OXYGEN	2260					N/A	N/A	
PERCHLORATES	71 K		18	20	25	N/A	N/A	
PH	5.05					N/A	N/A	
SALINITY %	0					N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.145					N/A	N/A	
TEMPERATURE C	20					N/A	N/A	
TURBIDITY NTU	22.1					N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RB[illegible]es have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #C-06
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	C-06 1 9GWC60001 2/17/99	C-06 2 9GWC60002 5/11/99	C-06 3 9GWC60003 8/11/99	C-06 4 9GWC60004 11/8/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	3 U	3 U		1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	3.3	2.7 J		4.1	N/A	0.053	C
1,1-DICHLOROETHENE	3 U	3 U		0.14 J	7	0.044	C
1,2-DICHLOROETHANE	3 U	3 U		1 U	5	0.12	C
2-BUTANONE	15 UR	15 U		5 UR	N/A	190	N
ACETONE	15 UR	15 UR		5 UR	N/A	61	N
BENZENE	3 U	3 U		1 U	5	0.36	C
BROMODICHLOROMETHANE	3 U	3 U		0.41 J	80	0.17	C
BROMOMETHANE	3 U	3 U		1 U	N/A	0.85	N
CARBON TETRACHLORIDE	3 U	3 U		1 U	5	0.16	C
CHLOROBENZENE	3 U	3 U		1 U	100	11	N
CHLOROFORM	5.2	5.4		4	80	0.15	C
CHLOROMETHANE	3 U	3 U		1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	3.7	4.3		5.5	70	6.1	N
ETHYLBENZENE	3 U	3 U		1 U	700	130	N
METHYLENE CHLORIDE	6 U	6 U		2 U	5	4.1	C
TETRACHLOROETHENE	3 U	3 U		0.51 J	5	1.1	C
TOLUENE	3 U	3 U		1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	3 U	3 U		0.27 J	100	12	N
TRICHLOROETHENE	45	56		75	5	1.6	C
XYLENES, TOTAL	3 U	3 U		1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	6 U		5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	6 U		5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 U	0.1 U		0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 U	0.05 U		0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 U	0.05 U		0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 U	0.05 U		0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.20 U	0.2 U		0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U		0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U		0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U		0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U		0.2 U	N/A	0.22	N
HMX	0.57	0.5 U		0.7	N/A	180	N
RDX	0.50 U	0.5 U		0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				100 U	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #C-06
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	C-06 1 9GWC60001 2/17/99	C-06 2 9GWC60002 5/11/99	C-06 3 9GWC60003 8/11/99	C-06 4 9GWC60004 11/8/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	56.8 B	5380 J		46.4 B	50-200	3700	N
ANTIMONY	1.9 U	1.2 U		1.4 U	6	1.5	N
ARSENIC	1.5 U	4.4 K		2.9 U	50	0.045	C
BARIUM	31.1	70.5		32.3	2000	260	N
BERYLLIUM	0.10 U	0.24 B		0.10 U	4	7.3	N
CADMIUM	2.7 UL	3.0 UL		3.2 UL	5	3.7	N
CALCIUM	2350	2520		2420	N/A	N/A	
CHROMIUM	5.1 B	15.6 B		5.2	100	11	N
COBALT	16.2 B	4.0 B		3.5	N/A	220	N
COPPER	7.3	18.4 B		7.3	1300	150	N
CYANIDE	10.0 U	1.1 U		1.2 B	200	73	N
IRON	102 B	13600		93.6 B	300	1100	N
LEAD	1.0 U	4.9 L		1.6 U	15	15	
MAGNESIUM	3170	3510		3280	N/A	N/A	
MANGANESE	32.8	53.7		35.1	50	73	N
MERCURY	0.27 L	3.8		0.44	2	1.1 (a)	N
NICKEL	7.5 U	6.8 B		6.6 U	100	73	N
POTASSIUM	1460 B	1870		1540	N/A	N/A	
SELENIUM	2.5 U	2.0 UJ		3.0 U	50	18	N
SILVER	3.6 B	3.3 U		2.2 U	100	18	N
SODIUM	18600	18600 K		19300	N/A	N/A	
THALLIUM	2.9 U	3.3 UL		3.8 U	2	0.26	N
VANADIUM	2.1 U	26.8		2.9 U	N/A	26	N
ZINC	16.0	13.5		8.8 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA			200 U	200 U	N/A	21	N
DISSOLVED OXYGEN	9210				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	5				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.15				N/A	N/A	
TEMPERATURE C	13.9				N/A	N/A	
TURBIDITY NTU	5.8				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #C-14
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	C-14 1 9GWC140001 2/18/99	C-14 2 9GWC140002 5/12/99	C-14 3 9GWC140003 8/12/99	C-14 4 9GWC140004 11/9/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	200	54	N
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	N/A	0.053	C
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	7	0.044	C
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	5	0.12	C
2-BUTANONE	5 UR	5 U	5 UR	5 UR	N/A	190	N
ACETONE	2.8 B	5 UR	36 L	1.4 B	N/A	61	N
BENZENE	1 U	1 U	0.26 J	1 U	5	0.36	C
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	80	0.17	C
BROMOMETHANE	1 U	1 U	1 U	1 U	N/A	0.85	N
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	5	0.16	C
CHLOROBENZENE	1 U	1 U	1 U	1 U	100	11	N
CHLOROFORM	1 U	1 U	1 U	1 U	80	0.15	C
CHLOROMETHANE	1 U	1 U	1 U	1 U	N/A	2.1	C
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	70	6.1	N
ETHYLBENZENE	1 U	1 U	1 U	1 U	700	130	N
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	5	4.1	C
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	5	1.1	C
TOLUENE	1 U	1 U	0.41 J	1 U	1000	75	N
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	100	12	N
TRICHLOROETHENE	1 U	1 U	1 U	1 U	5	1.6	C
XYLENES, TOTAL	1 U	1 U	0.43 J	1 U	10000	1200	N
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	1.8 J	5 U	5.9	5 U	6	4.8	C
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	N/A	370	N
PESTICIDES/PCBs (µg/L)							
4,4'-DDT	0.10 U	0.1 U	0.10 U	0.10 U	N/A	0.20	C
ALPHA-CHLORDANE	0.050 U	0.05 U	0.050 U	0.050 U	2	0.19	C
GAMMA-CHLORDANE	0.050 U	0.05 U	0.050 U	0.050 U	2	0.19	C
HEPTACHLOR EPOXIDE	0.050 U	0.05 U	0.050 U	0.050 U	0.2	0.0074	C
EXPLOSIVES (µg/L)							
2,4,6-TRINITROTOLUENE	0.47	0.2 U	0.20 U	0.2 U	N/A	2.2	C
2,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	3.7	N
2-AMINO-4,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	0.22	N
3-NITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	12	N
4-AMINO-2,6-DINITROTOLUENE	0.20 U	0.2 U	0.20 U	0.2 U	N/A	0.22	N
HMX	0.50 U	0.5 U	0.50 U	0.5 U	N/A	180	N
RDX	0.50 U	0.5 U	0.50 U	0.5 U	N/A	0.61	C
PETROLEUM HYDROCARBONS (µg/L)							
TOTAL PETROLEUM HYDROCARBONS				1000 U	N/A	N/A	
TPH-DIESEL				700 J	N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC values have been divided by a factor of 10 for non-carcinogens (N).

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
WELL #C-14
SUMMARY OF ANALYTICAL RESULTS FOR ALL ROUNDS OF GROUNDWATER DATA - 1999

LOCATION: ROUND: SAMPLE I.D.: SAMPLE DATE: ASSOCIATED DUPLICATE:	C-14 1 9GWC140001 2/18/99	C-14 2 9GWC140002 5/12/99	C-14 3 9GWC140003 8/12/99	C-14 4 9GWC140004 11/9/99	FEDERAL MCLs	REGION III RBC FOR TAP WATER	TAP WATER BASIS
INORGANICS (µg/L)							
ALUMINUM	555	87.9 B	349	152	50-200	3700	N
ANTIMONY	1.9 U	1.2 U	1.7 U	1.4 U	6	1.5	N
ARSENIC	3.6	1.4 K	1.1 U	2.9 U	50	0.045	C
BARIUM	134	87.5	107	102	2000	260	N
BERYLLIUM	0.10 B	0.10 B	0.19 B	0.10 U	4	7.3	N
CADMIUM	2.7 UL	3.0 UL	3.0 U	3.2 UL	5	3.7	N
CALCIUM	62200	9780	22300 J	15000	N/A	N/A	
CHROMIUM	3.3 B	3.5 B	10.2 K	3.1	100	11	N
COBALT	10.1 B	3.4 B	3.8 U	2.6 U	N/A	220	N
COPPER	17.1	7.8 B	9.0	2.3	1300	150	N
CYANIDE	10.0 U	1.1 U	1.4 U	1.2 U	200	73	N
IRON	1340	1080	1300	983	300	1100	N
LEAD	1.2	0.92 UL	1.0 U	1.9 K	15	15	
MAGNESIUM	5500	3880	4470	4780	N/A	N/A	
MANGANESE	166	121	128	114	50	73	N
MERCURY	0.20 UL	0.10 U	0.10 U	0.07 UL	2	1.1 (a)	N
NICKEL	7.5 U	5.9 U	9.1 K	8.5	100	73	N
POTASSIUM	11800	10600	11000	10800	N/A	N/A	
SELENIUM	2.5 U	2.0 UJ	2.7 U	3.0 U	50	18	N
SILVER	3.9 B	3.3 U	2.2 U	2.2 U	100	18	N
SODIUM	14400	13300 K	13000	13600	N/A	N/A	
THALLIUM	5.3 B	3.3 U	3.7 U	3.8 U	2	0.26	N
VANADIUM	2.1 U	5.1 U	4.8 B	2.9 U	N/A	26	N
ZINC	43.3	14.4	25.1 B	16.4 B	5000	1100	N
MISCELLANEOUS PARAMETERS (µg/L)							
AMMONIA				200 U	N/A	21	N
DISSOLVED OXYGEN	2800				N/A	N/A	
PERCHLORATES	5 U		4 U	4 U	N/A	N/A	
PH	10.11				N/A	N/A	
SALINITY %	0				N/A	N/A	
SPECIFIC CONDUCTIVITY MS/CM	0.184				N/A	N/A	
TEMPERATURE C	15.2				N/A	N/A	
TURBIDITY NTU	31				N/A	N/A	

(a) - RBC value shown is based on Mercuric chloride.
N/A - Not available
**All RBC [illegible]es have been divided by a factor of 10 for non-carcinogens (N).

SECTION E

SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER – ROUND 4 DATA, OCTOBER 1999

SECTION E-1

SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER ROUND 4 DATA, OCTOBER 1999

SITE 2

SITE 2
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	2GW300004	2GW300004-D	2GW310004	2GW320004	2GW450004	2GW760004	2GW1000004
LOCATION:	02GW30	02GW30	02GW31	02GW32	02GW45	02GW76	02SB100/2GW100
SAMPLE DATE:	10/22/99	10/22/99	10/19/99	10/20/99	10/19/99	10/21/99	10/21/99
ASSOCIATED DUPLICATE:	2GW300004-D	2GW300004					
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)							
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1	1 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	1 U	1 U	1 U	0.1 J	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	0.4 J	1 U	1 U	0.9 J
CHLOROMETHANE	1 U	1 U	1 U	0.2 J	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	0.3 J	0.2 J	1 U	1	1 U	1 U	0.4 J
TRICHLOROETHENE	4	4	1 U	25	0.8 J	1 U	2
EXPLOSIVES (µg/L)							
HMX	3.5	3.5	0.5 U	0.5 U	12	0.5 U	0.5 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.62	0.5 U	0.5 U
INORGANICS (µg/L)							
ALUMINUM	130 B	326 B	1310	5550	310 B	566 B	238 B
ARSENIC	2.3 U	2.3 U	2.3 U	7.9	2.3 U	2.3 U	2.3 U
BARIUM	55.2	59.6	28.2	194	42.8	20.2	1180
CADMIUM	0.84 B	0.78 B	0.53 B	7.4	0.57 B	0.20 U	1.2 B
CALCIUM	57200	60900	2290	99100	25900	1870	183000
CHROMIUM	7.6	8.8	3.3 B	7.0 B	1.2 B	1.8 B	4.7 B
COBALT	2.1 B	2.1 B	9.8	73.5	2.5 B	3.6 B	6.1 B
COPPER	3.2	3.2	2.5	25.7	0.92	0.70 U	12.8 K
CYANIDE	2.6 B	1.0 B	1.3 U	1.3 U	3.8	1.7 B	2.5 B
IRON	310 B	633 J	4030	75.2 B	684	624 J	310 B
LEAD	1.1 U	1.1 U	1.1 U	6.2	1.1 U	1.1 U	1.1 U
MAGNESIUM	32800	35200	1950	65200	12400	808	61800
MANGANESE	2210	2640	564	13100	279	201	410
MERCURY	0.20 U	0.20 U	0.20 UL	1.6	0.20 UL	0.20 U	0.20 U
NICKEL	29.3	31.2	6.3	130	4.0	3.3 B	28.6
POTASSIUM	8500	9030	1900	26800	4050	2200	14700
SILVER	0.60 U	0.60 U	0.60 U	1.3	0.60 U	0.60 U	1.5 B
SODIUM	288000	304000	3530	3270000	190000	69100	678000
VANADIUM	0.60 U	0.60 U	2.5 B	0.60 U	0.60 U	0.60 U	0.60 UL
ZINC	8.6 B	12.2 B	12.2 K	236	8.1 B	8.5 B	50.0
PETROLEUM HYDROCARBONS							
TOTAL PETROLEUM HYDROCARBONS MG/L	1.1 U	0.2	1.1 U	1 U	1 U	110	66
TPH-DIESEL UG/L	100 UJ	100 UJ	100 U	100 UJ	160	100 UJ	150 B
MISCELLANEOUS PARAMETERS							
AMMONIA MG/L	0.2 U	0.2 U	0.2 U	0.48	0.49	0.2 U	0.2 U

SITE 2
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	2GW1010004	2GW1020004	2GW1030004	2GW1040004	2GW1050004
LOCATION:	02SB101/2GW101	02GW102	02GW103	02GW104	02GW105
SAMPLE DATE:	10/21/99	10/20/99	10/20/99	10/20/99	10/20/99
ASSOCIATED DUPLICATE:					
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)					
1,1-DICHLOROETHANE	0.2 J	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	0.1 J	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROBENZENE	0.2 J	1 U	1 U	1 U	1 U
CARBON DISULFIDE	0.2 J	1 U	1 U	1 U	1 U
CHLOROBENZENE	0.5 J	1 U	1 U	1 U	1 U
CHLOROFORM	0.4 J	1 U	1 U	1 U	1 U
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	0.3 J	3	1 U	2	0.3 J
TRICHLOROETHENE	1	12	0.4 J	0.5 J	1
EXPLOSIVES (µg/L)					
HMX	0.5 U	0.5 U	0.5 U	0.5 U	0.73
RDX	0.5 U	0.5 U	0.64	0.5 U	0.5 U
INORGANICS (µg/L)					
ALUMINUM	157 B	9.1 U	75.4 B	654	4360
ARSENIC	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
BARIUM	255	440	35.4	265	158
CADMIUM	0.50 B	0.20 U	0.40 B	0.29 B	0.97 B
CALCIUM	29500	46800	11600	64900	15700
CHROMIUM	2.2 B	4.8 B	0.93 B	3.5 B	14.1
COBALT	2.7 B	1.8 B	0.60 U	0.60 U	17.4
COPPER	0.70 U	0.70 U	0.70	1.6	22.1
CYANIDE	1.5 B	1.3 U	1.3 U	1.3 U	1.3 U
IRON	250 B	11300	98.7 B	2250	12700
LEAD	1.1 U	1.1 U	1.1 U	1.1 U	2.5 K
MAGNESIUM	17100	18500	3730	19000	9150
MANGANESE	474	1130	104	272	574
MERCURY	0.20 U	0.20 UL	0.20 UL	0.20 UL	0.20 UL
NICKEL	65.6	7.8	6.4	2.1	84.1
POTASSIUM	5430	9060	2870	7300	6550
SILVER	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U
SODIUM	69300	22900	18400	33100	31700
VANADIUM	0.60 U	0.60 U	0.60 U	2.4 B	6.6
ZINC	38.6	8.2 B	7.7 B	24.2 K	48.1
PETROLEUM HYDROCARBONS					
TOTAL PETROLEUM HYDROCARBONS **MG/L**	59	1 U	1.1 U	1 U	1 U
TPH-DIESEL **UG/L**	100 UJ	100 UJ	350 J	100 UJ	100 UJ
MISCELLANEOUS PARAMETERS					
AMMONIA **MG/L**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

SECTION E-2

SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER ROUND 4 DATA, OCTOBER 1999

SITE 3

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	3GW170004	3GW180004	3GW190004	3GW470004	3GW770004	3GW78D0004	3GW78S0004	3GW1020004
LOCATION:	03GW17	03GW18	03GW19	03GW47	03GW77	03GW78D	03GW78S	03GW102
SAMPLE DATE:	10/21/99	10/26/99	10/22/99	10/21/99	10/20/99	10/26/99	10/25/99	10/24/99
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)								
1,2-DICHLOROBENZENE	1 U	1 U	0.2 J	1 U	1 U	1 U	1 U	30 U
1,3-DICHLOROBENZENE	1 U	1 U	1 J	1 U	1 U	1 U	1 U	30 U
1,4-DICHLOROBENZENE	1 U	1 U	3 B	1 U	1 U	1 U	1 U	30 U
BENZENE	1 U	1 U	2	1 U	1 U	1 U	1 U	30 U
CHLOROBENZENE	1 U	1 U	35	1 U	1 U	1 U	1 U	30 U
CHLOROFORM	1 U	1 U	2 U	1 U	1 U	1 U	0.16 J	30 U
CIS-1,2-DICHLOROETHENE	0.2 J	2.7	24	0.2 J	1	1 U	1 U	520
TETRACHLOROETHENE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
TRANS-1,2-DICHLOROETHENE	1 U	0.21 J	4	1 U	1 U	1 U	1 U	6.2 J
TRICHLOROETHENE	1 U	0.87 J	0.6 J	0.1 J	0.1 J	1 U	1 U	250
VINYL CHLORIDE	1 U	0.44 J	4	1 U	0.08 J	1 U	1 U	19 J
EXPLOSIVES (µg/L)								
HMX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
INORGANICS (µg/L)								
ALUMINUM	167 B	51.9 B	76.8 B	2010	2970	16.2 U	154 B	16.2 U
BARIUM	97.9	38.5	161	73.7	79.7	98.8	39.2	136
CALCIUM	27600	14000	23300	7530	6890	14400	5400	23800
CHROMIUM	1.8 B	2.3 U	5.8	2.4 B	9.5 B	2.3 U	6.4	2.3 U
COBALT	7.3	15.0	3.2 B	4.8 B	5.3 B	2.6 U	3.1	2.6 U
COPPER	0.70 U	3.2 L	2.8	14.0	3.8	0.96 UL	3.5 L	0.96 UL
IRON	7840 J	7110	24000 J	4230 J	22300	1060	561	5600
LEAD	1.1 U	1.3 U	1.1 U	2.5	3.2 K	1.3 U	1.3 U	1.3 U
MAGNESIUM	18300	10200	10100	2700	4370	6690	3320	10300
MANGANESE	1530	1800	924	621	980	90.5	170	241
NICKEL	49.0	25.6	7.6 B	6.2 B	9.0	6.6 U	12.9	6.6 U
POTASSIUM	4290	2640	3770	2040	3430	3170	1540	3490
SODIUM	13500	10300	21300	16400	33200	12600	11000	10000
VANADIUM	0.60 U	2.9 U	0.60 U	3.4 B	7.5	2.9 U	2.9 U	2.9 U
ZINC	4.0 B	13.0 B	0.50 U	24.5 B	16.8 K	8.3 B	12.2 B	3.2 B
PETROLEUM HYDROCARBONS								
TOTAL PETROLEUM HYDROCARBONS MG/L	1.1 U	1 U	0.6	0.2	1 U	1 U	1 U	1 U
MISCELLANEOUS PARAMETERS								
AMMONIA MG/L	0.42	0.2	0.4	0.2 U	0.57	0.2 U	0.2 U	0.2 U

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	3GW1040004	3GW1070004
LOCATION:	03GW104	03GW107
SAMPLE DATE:	10/23/99	10/21/99
VALIDATION STATUS:	VALIDATED	VALIDATED
VOLATILES (µg/L)		
1,2-DICHLOROBENZENE	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U
1,4-DICHLOROBENZENE	0.15 J	0.2 B
BENZENE	1 U	0.1 J
CHLOROBENZENE	1 U	0.4 J
CHLOROFORM	1 U	1 U
CIS-1,2-DICHLOROETHENE	3.2	1
TETRACHLOROETHENE	1 U	0.3 J
TRANS-1,2-DICHLOROETHENE	1 U	1 U
TRICHLOROETHENE	4.5	0.2 J
VINYL CHLORIDE	1 U	1 U
EXPLOSIVES (µg/L)		
HMX	0.5 U	1
RDX	0.5 U	0.95
INORGANICS (µg/L)		
ALUMINUM	89.3 B	1450
BARIUM	137	72.3
CALCIUM	18400	6610
CHROMIUM	2.3 U	3.0 B
COBALT	4.2	19.1
COPPER	5.3 L	4.4
IRON	3760	3540 J
LEAD	1.3 U	2.3
MAGNESIUM	7800	5000
MANGANESE	340	2230
NICKEL	6.6 U	23.8
POTASSIUM	4820	4310
SODIUM	9570	21300
VANADIUM	2.9 U	3.2 B
ZINC	18.9 B	22.2 B
PETROLEUM HYDROCARBONS		
TOTAL PETROLEUM HYDROCARBONS **MG/L**	1 U	1.4 U
MISCELLANEOUS PARAMETERS		
AMMONIA **MG/L**	0.2 U	0.4

SECTION E-3

SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER ROUND 4 DATA, OCTOBER 1999

SITE 4

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW100004	4GW110004	4GW120004	4GW130004	4GW150004	4GW480004	4GW49D0004	4GW500004
LOCATION:	04GW10	04GW11	04GW12	04GW13	04GW15	04GW48	04GW49D	04GW50
SAMPLE DATE:	11/10/99	11/11/99	11/05/99	11/08/99	11/08/99	11/11/99	11/08/99	11/03/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	0.9 J	10 U	1 U	100 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	45	10 U	1 U	290
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	0.41 J	10 U	1 U	100 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	10 U	0.31 J	100 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1.8	10 U	1 U	100 U
1,3-DICHLOROBENZENE	1 U	1 U	1 U	0.18 J	1 U	10 U	1 U	100 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	0.64 J	1 U	10 U	1 U	100 U
BENZENE	1 U	1.5	1 U	1	1 U	10 U	1 U	100 U
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
CHLOROBENZENE	5.6	0.98 J	1 U	5.9	0.13 J	1.3 J	1 U	20 J
CHLOROFORM	1 U	1 U	1 U	1 U	0.16 J	10 U	1 U	100 U
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
CIS-1,2-DICHLOROETHENE	0.6 J	1 U	1 U	14	3.3	2.6 J	1 U	130
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	0.77 J	2.2 J	1 U	100 U
TOLUENE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	0.15 J	10 U	1 U	100 U
TRICHLOROETHENE	3.4	1 U	1 U	13	68	420	0.11 J	740
VINYL CHLORIDE	1 U	1 U	1 U	4.2	0.29 J	10 U	1 U	18 J
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
SEMIVOLATILES (µg/L)								
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACENAPHTHENE	5 U	2.6 J	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
EXPLOSIVES (µg/L)								
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.72	0.5 U	0.5 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
INORGANICS (µg/L)								
ALUMINUM	1280	1170	273 B	118 B	25.4 B	449	26.9 B	4170
ANTIMONY	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.8 U
ARSENIC	3.3 K	2.9 K	3.4 B	2.9 U	2.9 U	3.0 K	2.9 U	7.8
BARIUM	47.2	81.1	44.6	36.2	41.2	33.3	38.4	72.1
CALCIUM	89800	73800	26200	34100	27500	39200	21200	51300
CHROMIUM	3.2	3.6	28.6	5.5	6.0	2.3 U	2.3 U	59.1
COBALT	2.6 U	2.8	29.6	11.0	2.6 U	2.6 U	9.3	17.6
COPPER	0.96 U	22.1	5.4 B	5.4 B	3.9 B	0.96 U	3.8 B	38.9
CYANIDE	1.2 U	1.2 U	1.2 U	1.5 B	1.2 U	1.2 U	1.2 U	3.0
IRON	2800	14200	1500	3700	82.0 B	1110	2090	36400
LEAD	2.0 K	13.8	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	6.2
MAGNESIUM	17800	17400	16700	17800	11500	4730	8860	17800
MANGANESE	227	1060	1810	1500	33.4	28.2	330	1400

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW100004	4GW110004	4GW120004	4GW130004	4GW150004	4GW480004	4GW49D0004	4GW500004
LOCATION:	04GW10	04GW11	04GW12	04GW13	04GW15	04GW48	04GW49D	04GW50
SAMPLE DATE:	11/10/99	11/11/99	11/05/99	11/08/99	11/08/99	11/11/99	11/08/99	11/03/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
MERCURY	0.07 UL	0.07 UL	3.5	0.78	0.25	0.07 UL	0.07 U	3.7
NICKEL	6.6 U	6.6 U	27.7	8.9	6.6 U	6.6 U	6.6 U	12.3
POTASSIUM	3560	4260	2010	2940	2520	2000	4210	5740 K
SELENIUM	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	2.4 UJ
SILVER	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	3.6
SODIUM	9820	6950	11300	7020	8770	2480	14900	9610
THALLIUM	3.8 U	3.8 U	3.8 U	3.8 U	5.9 B	3.8 U	4.6 B	10.1 B
VANADIUM	5.3	2.9	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	31.6
ZINC	7.7 B	103	6.9 B	7.8 B	9.0 B	4.2 B	7.5 B	25.4 B
PETROLEUM HYDROCARBONS								
TPH-DIESEL UG/L	100 UJ	620 J	250	100 U	100 U	550 J	100 U	630
MISCELLANEOUS PARAMETERS								
AMMONIA MG/L	0.3	0.63	0.4	0.55	0.2 U	0.2 U	0.58	0.58
PERCHLORATE UG/L	10 U	10 U	4 U	8 U	76	4 U	8 U	4 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW520004	4GW520004-D	4GW790004	4GW790004-D	4GW800004	4GW81D0004	4GW81S0004	4GW820004
LOCATION:	04GW52	04GW52	04GW79	04GW79	04GW80	04GW81D	04GW81S	04GW82
SAMPLE DATE:	11/08/99	11/08/99	11/09/99	11/09/99	11/08/99	11/10/99	11/05/99	11/04/99
ASSOCIATED DUPLICATE:	4GW520004-D	4GW520004	4GW790004-D	4GW790004				
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	6	4	5.9	1 U	4	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	2 U	2 U	0.2 J	1 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	2 U	2 U	0.64 J	1 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
BENZENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U	2 U	2 U	0.16 J	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
CHLOROFORM	0.18 B	0.19 B	2 U	2 U	1.3 B	0.24 B	0.32 J	1.7
CHLOROMETHANE	1 U	0.12 J	2 U	2 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	0.4 J	0.31 J	3.5	0.11 J	0.49 J	1 U
ETHYLBENZENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	0.22 J	2 U	1.3	0.49 J	1.4	1 U
TOLUENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	2 U	2 U	0.79 J	1 U	0.28 J	1 U
TRICHLOROETHENE	0.17 J	1 U	26	21	77	0.44 J	1.5	1 U
VINYL CHLORIDE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
SEMIVOLATILES (µg/L)								
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACENAPHTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
EXPLOSIVES (µg/L)								
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.29	0.21	0.2 U
HMX	0.5 U	0.5 U	0.5 U	0.5 U	1.4	1.9	1.8	0.5 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.52	0.91	0.67	0.5 U
INORGANICS (µg/L)								
ALUMINUM	109	73.7	19.7	19.0	170	80.7	168 B	380 B
ANTIMONY	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ARSENIC	2.9 U	3.6 K	3.0 K	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
BARIUM	105	110	47.5	47.6	21.6	89.4	81.7	60.3
CALCIUM	7670	7940	19500	20100	4140	3660	2810	2260
CHROMIUM	2.3 U	2.3 U	2.3 U	2.3 U	24.5	2.3 U	27.3	2.3 U
COBALT	28.4	28.9	2.6 U	2.6 U	11.3	3.4	21.4	9.2
COPPER	16.7	18.8	1.3	1.8	3.0	2.2	17.2	14.8
CYANIDE	1.2 U	1.2 U	1.4	1.2 U	1.2 U	1.2 U	1.2 U	1.5 B
IRON	601	599	112 B	69.7 B	7540	98.8 B	2370	1730
LEAD	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
MAGNESIUM	17700	18400	11200	11200	3660	7190	5520	5150
MANGANESE	336	345	387	389	138	90.0	141	114

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW520004	4GW520004-D	4GW790004	4GW790004-D	4GW800004	4GW81D0004	4GW81S0004	4GW820004
LOCATION:	04GW52	04GW52	04GW79	04GW79	04GW80	04GW81D	04GW81S	04GW82
SAMPLE DATE:	11/08/99	11/08/99	11/09/99	11/09/99	11/08/99	11/10/99	11/05/99	11/04/99
ASSOCIATED DUPLICATE:	4GW520004-D	4GW520004	4GW790004-D	4GW790004				
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
MERCURY	4.2	4.2	3.2	3.2	1.0	4.5	2.4	0.07 U
NICKEL	30.9	23.1	6.6 U	6.6 U	42.2	6.6 U	46.6	41.5
POTASSIUM	2350	2580	1570	2010	1760	1460	1690	2240
SELENIUM	4.7 K	6.4 K	3.0 U	3.0 U	3.0 U	4.9 K	3.4 K	3.0 U
SILVER	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	3.0 B	2.2 U
SODIUM	7650	8160	11000	11000	72400	6920	8590	36700
THALLIUM	3.8	3.8 U	3.8 U	3.8 U	7.9	3.8	3.8 U	5.3 B
VANADIUM	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
ZINC	10.7 B	15.0 B	6.9 B	23.6 B	8.9 B	46.5	17.1 B	53.8
PETROLEUM HYDROCARBONS								
TPH-DIESEL UG/L	140	500	100 UJ	150 J	940	100 UJ	100 U	100 U
MISCELLANEOUS PARAMETERS								
AMMONIA MG/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08	0.44
PERCHLORATE UG/L	8 U	4 U	4 U	4 U	10	4 U	4 U	4 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW890004	4GW1000004	4GW1010004	4GW1030004	4GW1040004	4GW1050004	4GW1060004	4GW1070004
LOCATION:	04PZ89	04GW100	04GW101	04GW103	04GW104	04GW105	04GW106	04GW107
SAMPLE DATE:	11/09/99	11/04/99	11/10/99	11/09/99	11/03/99	11/05/99	11/05/99	11/05/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	2 U	1 U	1 U	1 U	1 U	380	1 U	1 U
1,1,2-TRICHLOROETHANE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
1,1-DICHLOROETHANE	2 U	1 U	1 U	0.27 J	1 U	200 U	1 U	1 U
1,2-DICHLOROETHANE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
1,3-DICHLOROBENZENE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
1,4-DICHLOROBENZENE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
BENZENE	2 U	1 U	1	0.51 J	1 U	200 U	1 U	1 U
CARBON TETRACHLORIDE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
CHLOROBENZENE	2 U	1 U	5.6	0.13 J	1 U	43 J	1 U	1 U
CHLOROFORM	2 U	1 U	1 U	1 U	1 U	20 J	0.13 J	1 U
CHLOROMETHANE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	2 U	1 U	0.2 J	0.12 J	1 U	340	1 U	0.23 J
ETHYLBENZENE	2 U	1 U	1 U	0.81 J	1 U	200 U	1 U	1 U
TETRACHLOROETHENE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
TOLUENE	2 U	1 U	1 U	0.16 J	1 U	200 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
TRICHLOROETHENE	19	2.7	1.5	2.7	1 U	1400	1 U	5.1
VINYL CHLORIDE	2 U	1 U	0.24 J	1 U	1 U	200 U	1 U	1 U
XYLENES, TOTAL	2 U	1 U	1 U	2.2	1 U	200 U	1 U	1 U
SEMIVOLATILES (µg/L)								
2-METHYLNAPHTHALENE	5 U	5 U	5 U	3 J	5 U	5 U	5 U	5 U
ACENAPHTHENE	5 U	5 U	0.9 J	5 U	5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	5 U	5 U	5 U	2.1 J	5 U	5 U	5 U	5 U
PHENOL	5 U	5 U	5 U	0.59 J	5 U	5 U	5 U	5 U
EXPLOSIVES (µg/L)								
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
INORGANICS (µg/L)								
ALUMINUM	590	20500	86.6	480	738	22.9 B	71.2 B	53.0 B
ANTIMONY	1.4 U	1.8	1.4 U	1.4 U	1.8 U	1.4 U	1.4 U	1.4 U
ARSENIC	2.9 U	12.3	2.9 U	2.9 K	2.4 U	2.9 U	3.4 B	2.9 U
BARIUM	39.2	67.6	57.5	59.5	53.9	62.6	142	39.4
CALCIUM	15200	12900	66500	22500	9420	59300	10800	15100
CHROMIUM	12.8	44.6	2.3 U	18.7	2.3 U	2.5	4.5	2.3 U
COBALT	5.8	7	10.1	11.3	4.2	7.2	16.5	10.4
COPPER	3.1	34.3	5.2	1.8	6.6 B	4.2 B	3.7 B	5.3 B
CYANIDE	1.2 U	1.5	1.2 U	1.2 U	2.8	1.5 B	1.2 U	1.2 U
IRON	1780	30900	21900	15200	1770	33300	8800	656
LEAD	6.6	11.7	2.4 K	1.6 U	1.3 U	1.6 U	1.6	1.6 U
MAGNESIUM	9100	7970	20200	19400	8730	19500	11000	9520
MANGANESE	309	186	1710	977	129	1330	1500	387

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW890004	4GW1000004	4GW1010004	4GW1030004	4GW1040004	4GW1050004	4GW1060004	4GW1070004
LOCATION:	04PZ89	04GW100	04GW101	04GW103	04GW104	04GW105	04GW106	04GW107
SAMPLE DATE:	11/09/99	11/04/99	11/10/99	11/09/99	11/03/99	11/05/99	11/05/99	11/05/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
MERCURY	2.7	1.7	0.07 UL	0.07 UL	1.4	0.07 U	0.16	0.63
NICKEL	11.8	6.6 U	9.5	28.6	6.6 U	6.6 U	9.7	6.6 U
POTASSIUM	1830	2630 K	4170	5850	1220 K	4000	1780	1880
SELENIUM	3.0 U	2.4 UJ	3.0 U	3.0 U	2.4 UJ	3.0 U	3.0 U	3.0 U
SILVER	2.2 U	4.0	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
SODIUM	11000	8560	8170	19900	9240	10400	13800	10800
THALLIUM	3.8 U	8.5 B	3.8 U	3.8 U	7.9 B	3.8 U	3.9 B	3.8 U
VANADIUM	2.9 U	76.0	2.9 U	2.9 U	3.2	2.9 U	2.9 U	2.9 U
ZINC	24.7 B	43.1	10.0 B	10.9 B	18.5 B	6.4 B	5.6 B	5.3 B
PETROLEUM HYDROCARBONS								
TPH-DIESEL UG/L	100 UJ	100 UJ	480 J	530 J	100 U	100 U	100 U	100 U
MISCELLANEOUS PARAMETERS								
AMMONIA MG/L	0.2 U	0.3	1	0.2 U	0.1	0.58	0.1	0.2
PERCHLORATE UG/L	4 U	4 U	10 U	10 U	4 U	4 U	4 U	4 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW1080004	4GW1090004	4GW1100004
LOCATION:	04GW108	04GW109	04GW110
SAMPLE DATE:	11/08/99	11/10/99	11/04/99
ASSOCIATED DUPLICATE:			
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)			
1,1,1-TRICHLOROETHANE	1 U	5 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	26	1 U
1,1,2-TRICHLOROETHANE	1 U	1 J	1 U
1,1-DICHLOROETHANE	1 U	5 U	1 U
1,2-DICHLOROETHANE	1 U	5 U	1 U
1,3-DICHLOROBENZENE	1 U	5 U	1 U
1,4-DICHLOROBENZENE	1 U	5 U	1 U
BENZENE	1 U	5 U	1 U
CARBON TETRACHLORIDE	1 U	5 U	1 U
CHLOROBENZENE	1 U	5 U	1 U
CHLOROFORM	1	5 U	1 U
CHLOROMETHANE	1 U	5 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	3 J	5.5
ETHYLBENZENE	1 U	5 U	1 U
TETRACHLOROETHENE	1 U	1.4 J	8.1
TOLUENE	1 U	5 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	2.3 J	0.21 J
TRICHLOROETHENE	1 U	5.5	8.3
VINYL CHLORIDE	1 U	5 U	1 U
XYLENES, TOTAL	1 U	5 U	1 U
SEMIVOLATILES (µg/L)			
2-METHYLNAPHTHALENE	5 U	5 U	5 U
ACENAPHTHENE	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	1.3 J	5 U
NAPHTHALENE	5 U	5 U	5 U
PHENOL	5 U	5 U	5 U
EXPLOSIVES (µg/L)			
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U
HMX	0.5 U	0.5 U	6.1
RDX	0.5 U	0.5 U	2.1
INORGANICS (µg/L)			
ALUMINUM	339 B	533	167 B
ANTIMONY	1.4 U	1.4 U	1.4 U
ARSENIC	2.9 U	2.9 U	2.9 U
BARIUM	195	32.5	74.4
CALCIUM	7140	2350	8810
CHROMIUM	2.3 U	4.0	2.3 U
COBALT	17.0	11.3	97.8
COPPER	4.8 B	2.1	6.9
CYANIDE	1.5 B	1.2 U	1.9 B
IRON	292	16000	2770
LEAD	1.6 U	1.6 U	1.6 U
MAGNESIUM	12600	1710	8140
MANGANESE	171	743	1380

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW1080004	4GW1090004	4GW1100004
LOCATION:	04GW108	04GW109	04GW110
SAMPLE DATE:	11/08/99	11/10/99	11/04/99
ASSOCIATED DUPLICATE:			
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED
MERCURY	0.07 U	0.07 UL	0.07 U
NICKEL	22.1	8.4	81.0
POTASSIUM	3180	1960	6640
SELENIUM	3.0 U	3.0 U	3.6 K
SILVER	2.2 U	2.2 U	2.2 U
SODIUM	38900	14500	48700
THALLIUM	5.3 B	3.8 U	3.8 U
VANADIUM	2.9 U	2.9 U	2.9 U
ZINC	16.9 B	9.9 B	32.7 B
PETROLEUM HYDROCARBONS			
TPH-DIESEL UG/L	100 U	100 UJ	100 U
MISCELLANEOUS PARAMETERS			
AMMONIA MG/L	0.1	0.2 U	0.1
PERCHLORATE UG/L	16 U	4 U	10 U

SECTION E-4

SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER ROUND 4 DATA, OCTOBER 1999

SITE 7

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	7GW080004	7GW410004	7GW420004	7GW430004	7GW1010004	7GW1020004	7GW1030004	7GW1030004-D
LOCATION:	07GW08	07GW41	07PZ42	07GW43	07GW101	07GW102	07GW103	07GW103
SAMPLE DATE:	10/07/99	10/06/99	10/07/99	10/07/99	10/07/99	10/06/99	10/06/99	10/06/99
ASSOCIATED DUPLICATE:							7GW1030004-D	7GW1030004
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)								
1,1,2,2-TETRACHLOROETHANE	1 U	9.5 J	1 U	50 U	1 U	15	1 U	1 U
1,4-DICHLOROBENZENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
CHLOROFORM	0.27 B	10 U	0.69 J	50 U	0.3 B	10 U	21	20
CIS-1,2-DICHLOROETHENE	1 U	9.3 J	1 U	19 J	1 U	17	1 U	1 U
TRICHLOROETHENE	1 U	85	1 U	390	1 U	150	0.12 J	0.18 J
PESTICIDES/PCBs (µg/L)								
ALPHA-CHLORDANE	0.050 UR	0.050 U	0.050 U	0.050 U	0.038 J	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 UR	0.050 U	0.050 U	0.050 U	0.038 J	0.050 U	0.050 U	0.050 U
EXPLOSIVES (µg/L)								
2,4,6-TRINITROTOLUENE	180	0.2 U	0.2 U	0.2 U	0.22	0.2 U	0.34	0.37
2-AMINO-4,6-DINITROTOLUENE	64	0.2 U	0.2 U	0.2 U	0.39	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	100	0.2 U	0.2 U	0.2 U	0.37	0.2 U	0.23	0.22
HMX	170	0.5 U	0.5 U	0.5 U	2.7	0.5 U	0.65	0.68
RDX	440	0.5 U	0.5 U	0.5 U	4.9	0.5 U	0.5 U	0.5 U
INORGANICS (µg/L)								
ALUMINUM	1290	422 B	663 B	1810 K	273 B	659	457 B	683
BARIUM	37.6	50.8	74.4	44.6	47.7	62.2	40.5	42.1
CALCIUM	3950	14300	11700	4980	4900	10700	10600	11000
CHROMIUM	51.0	6.0	12.0 L	12.4 L	3.3	15.5	8.4	4.3
COBALT	1.9	2.1	5	6.0	1.3	8.7	3.9	3.5
COPPER	1.3 U	1.3 U	1.3 U	3.2	1.3 U	3.5	1.3 U	1.3 U
IRON	704	601	769	4640	200 K	615	213	104 K
MAGNESIUM	3810	9410	10400	5870	5030	8930	3970	4130
MANGANESE	19.8	104	145	77.2	24.7	111	13.8	14.0
MERCURY	0.09	1.1	4.0	0.26	0.07	1.0	0.07	0.07
NICKEL	38.2	5.8	9.5	9.5	6.2	13.2	7.0	3.7
POTASSIUM	1490	1600	1740	1670	1510	1520	1120	1200
SELENIUM	3.8 U	3.8 U	3.8 UL	3.8 UL	3.8 U	4.0 K	3.8 U	3.8 U
SODIUM	3450	10700	11700	12400	4800	10500	6450	6470
VANADIUM	6.5	1.4 U	1.8	6.7	1.4 U	2.6	1.4	1.4 U
ZINC	10.8 B	15.4 B	1.9 U	1.9 K	11.2 B	14.2 B	10.8 B	20.3 K
PETROLEUM HYDROCARBONS								
TPH-DIESEL UG/L	330	100 U	210	100 U	100 U	140	100 U	100 U
MISCELLANEOUS PARAMETERS								
AMMONIA MG/L	0.3 K	0.2 U	0.2 K	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
PERCHLORATE UG/L	12 J	8 U	8 U	8 U	8 U	8 U	8 U	29 J

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	7GW1040004	7GW1050004
LOCATION:	07GW104	07GW105
SAMPLE DATE:	10/20/99	10/07/99
ASSOCIATED DUPLICATE:		
VALIDATION STATUS:	VALIDATED	VALIDATED
VOLATILES (µg/L)		
1,1,2,2-TETRACHLOROETHANE	1 U	1 U
1,4-DICHLOROBENZENE	1 U	0.11 J
CHLOROFORM	0.62 B	0.33 B
CIS-1,2-DICHLOROETHENE	1 U	1 U
TRICHLOROETHENE	0.11 J	1 U
PESTICIDES/PCBs (µg/L)		
ALPHA-CHLORDANE	0.094 UR	0.045 J
GAMMA-CHLORDANE	0.094 UR	0.052
EXPLOSIVES (µg/L)		
2,4,6-TRINITROTOLUENE	410	7.1
2-AMINO-4,6-DINITROTOLUENE	120	4.3
4-AMINO-2,6-DINITROTOLUENE	210	4.4
HMX	170	10
RDX	770	50
INORGANICS (µg/L)		
ALUMINUM	712	112 B
BARIUM	22.6	42.7
CALCIUM	3610	4610
CHROMIUM	1.2 U	5.0
COBALT	1.2	1.2 U
COPPER	7.2	1.3 U
IRON	98.9 K	58.5 K
MAGNESIUM	2550	5110
MANGANESE	13.0	22.0
MERCURY	0.09	0.05 U
NICKEL	1.8 U	5.4
POTASSIUM	1420	1560
SELENIUM	3.8 U	3.8 U
SODIUM	2410	4840
VANADIUM	1.4 U	1.4 U
ZINC	12.0 B	11.3 B
PETROLEUM HYDROCARBONS		
TPH-DIESEL UG/L	410 J	100 U
MISCELLANEOUS PARAMETERS		
AMMONIA MG/L	0.3 K	0.2 U
PERCHLORATE UG/L	4 U	9 J

SECTION E-5

SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER ROUND 4 DATA, OCTOBER 1999

SITE 8

SITE 8
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	8GW330004	8GW340004	8GW350004	8GW360004	8GW530004	8GWB10004	8GWB30004
LOCATION:	08GW33	08GW34	08GW35	08GW36	08GW53	B-1	B-3
SAMPLE DATE:	10/06/99	10/05/99	10/05/99	10/05/99	10/07/99	10/05/99	10/06/99
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)							
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	2.6	1 U	0.66 J	1 U
CARBON DISULFIDE	1 U	1 U	1 U	1 U	1 U	1 U	3.1
CHLOROBENZENE	1 U	0.26 J	1 U	1 U	1 U	1 U	1 U
CHLOROFORM	4.1	0.66 B	17	0.5 B	5	4.6	1.6
VINYL CHLORIDE	1 U	1 U	1 U	0.53 J	1 U	1 U	1 U
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	0.17 J	1 U
INORGANICS (µg/L)							
ALUMINUM	16200	588	22900	45100	2230	1890	N/A
ARSENIC	3.3 U	3.3 U	3.4	11.6	3.3 U	3.3 U	N/A
BARIUM	132	18.9	239	533	14.5	39.9	N/A
BERYLLIUM	2.0 B	0.34 B	2.8 B	6.2	0.26 U	0.30 U	N/A
CADMIUM	0.50 U	0.50 U	50.0 U	2.0	0.97	0.50 U	N/A
CALCIUM	4470	1890	5780	12800	1960	6350	N/A
CHROMIUM	21.4	7.4	31.3	99.4	3.8	5.6	N/A
COBALT	15.3	1.2	22.5	42.4	2.0	7.6	N/A
COPPER	25.0	1.3 U	32.4	66.3	3.1	3.2	N/A
IRON	33700	724	36300	82900	1640	3050	N/A
LEAD	7.6	1.7 U	9.2	23.9	1.7 U	1.7 U	N/A
MAGNESIUM	5840	1460	8350	18700	1110	3500	N/A
MANGANESE	693	38.4	556	1370	126	953	N/A
MERCURY	0.39	0.07	0.09	0.13	0.07	0.05 U	N/A
NICKEL	27.4	6.8	39.6	98.1	6.4	11.6	N/A
POTASSIUM	7530	1400	10600	23800	1080	7700	N/A
SODIUM	3800	3920	6960	8430	3030	7990	N/A
VANADIUM	31.4	1.4 U	46.8	97.0	1.5	3.9	N/A
ZINC	91.8	15.3 B	117	276	67.3	65.7	N/A
MISCELLANEOUS PARAMETERS							
AMMONIA MG/L	0.2 K	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A

SECTION E-6

SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER ROUND 4 DATA, OCTOBER 1999

SITE 9

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW010004	9GW020004	9GW030004	9GW040004	9GW050004	9GW060004	9GW060004-D	9GW070004
LOCATION	09GW01	09GW02	09GW03	09GW04	09GW05	09GW06	09GW06	09GW07
SAMPLE DATE:	10/28/99	10/28/99	10/28/99	10/27/99	10/28/99	10/27/99	10/27/99	10/26/99
ASSOCIATED DUPLICATE:						9GW060004-D	9GW060004	
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	0.77 J	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROFORM	4.1	0.99 J	0.79 J	3.8	3.1	0.77 J	0.92 J	6.1
CHLOROMETHANE	1 U	0.14 J	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	0.50 J	0.54 J	0.18 J	1 U	0.16 J	1 U	1 U	1 U
TETRACHLOROETHENE	0.27 J	5.6	0.40 J	1 U	0.14 J	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	16	10	0.78 J	1 U	2.6	0.26 J	0.33 J	0.11 J
SEMIVOLATILES (µg/L)								
BIS(2-ETHYLHEXYL)PHTHALATE	1.1 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)								
ALPHA-CHLORDANE	0.26	0.050 U	0.050 U	0.050 U	0.043 J	0.059	0.060	0.050 U
GAMMA-CHLORDANE	0.21	0.050 U	0.050 U	0.050 U	0.026 J	0.035 J	0.035 J	0.050 U
EXPLOSIVES (µg/L)								
2,6-DINITROTOLUENE	4.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	4.0 U	0.2 U	0.2 U	0.23	0.2 U	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	4.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	12	0.5 U	0.5 U	4.0	0.5 U	0.5 U	0.5 U	0.5 U
RDX	150	0.5	0.50 U	6.9	0.5 U	0.5 U	0.5 U	0.5 U
INORGANICS (µg/L)								
ALUMINUM	101	796	69.2 B	96.5	217	444	515	3370
ARSENIC	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
BARIUM	17.1	107	42.2	39.3	95.4	111	114	95.8
CADMIUM	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 UL
CALCIUM	3430	8590	2090	2820	3750	3960	4110	5310
CHROMIUM	2.3 U	6.7	4.5	7.4	19.3	21.2	9.8	15.9
COBALT	2.6 U	6.1	12.1	2.6 U	7.0	9.8	7.8	5.6
COPPER	6.1 B	9.7 B	8.3 B	6.0 B	8.0 B	10.6	10.3	14.3 L
CYANIDE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
IRON	143 J	9490 J	287 J	436 J	1060 J	1560 J	2290 J	12300
LEAD	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	2.4
MAGNESIUM	1640	7340	2740	3810	6830	6800	7230	5850
MANGANESE	15.4	568	43.5	34.2	163	212	197	122
MERCURY	0.07 U	0.07 U	0.07 U	0.25	0.36	0.08	0.10	0.18
NICKEL	9.0	27.5	14.2	8.5	27.3	27.7	21.2	13.0
POTASSIUM	1590	4840	1530	1520	2310	2990	2930	2560
SELENIUM	2.4 UL	2.4 UL	2.4 UL	2.4 UL	2.4 UL	2.4 UL	2.4 UL	2.8 J
SILVER	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
SODIUM	6500	7310	21700	21200	30000	25800	26900	23200
VANADIUM	2.9 U	5.3 B	2.9 U	2.9 U	2.9 U	4.0 B	4.2 B	27.3
ZINC	7.0 B	28.4 K	11.2 B	7.2 B	11.2 B	13.3 B	13.4 B	40.3

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW010004	9GW020004	9GW030004	9GW040004	9GW050004	9GW060004	9GW060004-D	9GW070004
LOCATION	09GW01	09GW02	09GW03	09GW04	09GW05	09GW06	09GW06	09GW07
SAMPLE DATE:	10/28/99	10/28/99	10/28/99	10/27/99	10/28/99	10/27/99	10/27/99	10/26/99
ASSOCIATED DUPLICATE:						9GW060004-D	9GW060004	
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
PETROLEUM HYDROCARBONS								
TOTAL PETROLEUM HYDROCARBONS MG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TPH-DIESEL UG/L	120	100 U	100 U	100 U	100 U	100 U	100 U	100 U
MISCELLANEOUS PARAMETERS								
AMMONIA MG/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
PERCHLORATE UG/L	798	8 U	5	4 U	8 U	8 U	8 U	8 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW440004	9GW550004	9GW560004	9GW57D0004	9GW57S0004	9GW580004	9GW590004	9GW740004
LOCATION	09PZ44	09PZ55	09PZ56	09GW57D	09GW57S	09GW58	09GW59	09GW74
SAMPLE DATE:	11/8/99	10/27/99	10/27/99	10/28/99	10/27/99	10/26/99	10/28/99	11/3/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	0.35 J	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.29 J
CHLOROFORM	10	5.7	1.5	3.1	0.5 J	3	0.99 J	2
CHLOROMETHANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	4.4	0.16 J	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	0.30 J	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1.1	1 U	39	2.2	1 U	1 U	1.3
SEMIVOLATILES (µg/L)								
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	1.6 J	5 U	1.8 B	0.95 J	5 U
PESTICIDES/PCBs (µg/L)								
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
EXPLOSIVES (µg/L)								
2,6-DINITROTOLUENE	0.2 U	0.25	0.6 U	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	1	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	0.92	0.2 U	0.2 U
HMX	0.55	0.5 U	22	2.6	0.78	15	1.0	0.5 U
RDX	0.5 U	0.5 U	14	5.5	0.93	23	1.5	1.5
INORGANICS (µg/L)								
ALUMINUM	708	1330	97.6	28.5 B	2970	4730	155	462
ARSENIC	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	5.9	2.4 U	2.4 U
BARIUM	73.4	28.6	23.2	27.0	27.4	54.2	37.5	41.6
CADMIUM	9.9 L	3.2 UL	3.2 U	3.2 U	3.2 UL	3.2 UL	3.2 U	3.2 U
CALCIUM	7850	2240	5220	3640	3520	4340	5200	5820
CHROMIUM	3.9	9.2	2.3 U	2.3 U	5.2	30.0	2.3 U	7.9
COBALT	23.8	2.6 U	2.6 U	2.6 U	20.5	13.1	3.6	2.6 U
COPPER	64.3	8.7 L	7.2	5.4 B	8.9 L	31.0 L	5.6	7.1 B
CYANIDE	1.9	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.5
IRON	3250	1.2	223 J	29.7 B	6890	22100	182 J	1410
LEAD	6.6	1.5	1.3 U	1.3 U	1.3 U	7.1	1.3 U	1.3 U
MAGNESIUM	6540	2420	1310	2050	4120	5420	2080	4160
MANGANESE	990	17.6	35.6	12.0	63.2	51.3	43.1	54.6
MERCURY	0.07 U	0.18	0.07 U	0.07 U	0.07 U	2.7	0.07 U	0.07 U
NICKEL	37.4	6.6 U	6.6 U	6.6 U	7.9	9.3	6.6 U	10.1
POTASSIUM	4420	1250	2770	1390 B	940	1850	1260 B	2400 K
SELENIUM	2.4 UJ	2.4 UJ	2.4 UL	2.4 UL	2.4 UJ	7.1 J	2.4 UL	2.4 UJ
SILVER	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
SODIUM	50900	7700	27700	9840	7790	18400	10400	8320
VANADIUM	2.9 U	12.2	2.9 U	2.9 U	9.0	44.3	2.9 U	2.9 U
ZINC	88.9	21.1 B	27.9 K	8.8 B	16.1 B	14.9 B	10.5 B	27.1 B

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW440004	9GW550004	9GW560004	9GW57D0004	9GW57S0004	9GW580004	9GW590004	9GW740004
LOCATION	09PZ44	09PZ55	09PZ56	09GW57D	09GW57S	09GW58	09GW59	09GW74
SAMPLE DATE:	11/8/99	10/27/99	10/27/99	10/28/99	10/27/99	10/26/99	10/28/99	11/3/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
PETROLEUM HYDROCARBONS								
TOTAL PETROLEUM HYDROCARBONS MG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1
TPH-DIESEL UG/L	350	100 U	100 U	100 U	100 U	1000	100 U	100 UJ
MISCELLANEOUS PARAMETERS								
AMMONIA MG/L	0.2	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.1
PERCHLORATE UG/L	4 U	8 U	10	34	8 U	4 U	4 U	7

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW750004	9GW830004	9GW1000004	9GW1010004	9GW1020004	9GW1030004	9GW1030004-D
LOCATION	09GW75	09GW83	09GW100	09GW101	09GW102	09GW103	09GW103
SAMPLE DATE:	10/27/99	10/28/99	10/27/99	11/2/99	10/29/99	11/3/99	11/3/99
ASSOCIATED DUPLICATE:						9GW1030004-D	9GW1030004
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	0.28 B	1.9	0.18 B	1 U	3.4	3.2
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1.9	0.24 J	1 U	0.11 J	1 U
TETRACHLOROETHENE	1 U	1 U	0.25 J	1 U	1 U	0.63 J	0.57 J
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	17	4.0	1 U	8.1	7.4
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	4.8 J	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)							
ALPHA-CHLORDANE	0.050 U	0.050 U	0.028 J	0.050 U	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
EXPLOSIVES (µg/L)							
2,6-DINITROTOLUENE	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	0.5 U	0.5 U	2.5	0.5 U	0.5 U	1.8	1.7
RDX	0.5 U	0.5 U	32	0.90	0.5 U	2.5	2.3
INORGANICS (µg/L)							
ALUMINUM	503	96.5	2720	60.8 B	413	84.1 B	68.3 B
ARSENIC	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
BARIUM	18.5	40.0	68.6	42.9	49.1	25.1	25.1
CADMIUM	3.2 UL	3.2 U	3.2 UL	3.2 U	3.2 U	3.2 U	3.2 U
CALCIUM	5280	9130	10800	26300	2000	4090	4460
CHROMIUM	2.4	2.3 U	2.4	2.3 U	68.0	3.7	2.4
COBALT	2.6 U	2.6 U	3.4	2.6 U	19.7	2.8	2.6 U
COPPER	5.1 L	7.1	8.9 L	9.9	41.8	5.0 B	6.4 B
CYANIDE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.8	2.2
IRON	2110	299 J	7170	124 J	2860 J	114 K	103 K
LEAD	1.3 U	1.3 U	1.3 U	1.3 U	3.9 K	1.3 U	1.3 U
MAGNESIUM	5000	6170	5940	10400	2600	3360	3380
MANGANESE	23.6	742	375	197	334	73.6	76.2
MERCURY	0.10	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
NICKEL	6.6 U	7.7	6.6 U	6.6 U	71.8	6.6 U	6.6 U
POTASSIUM	1480	3820	4180	4580	2170	2600 K	2390 K
SELENIUM	2.4 UJ	2.4 UL	2.4 UJ	2.4 UL	2.4 UL	2.4 UJ	2.4 UJ
SILVER	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
SODIUM	15800	10900	12300	19700	4570	17600	18000
VANADIUM	2.9 U	2.9 U	3.2	2.9 U	2.9 U	2.9 U	2.9 U
ZINC	9.9 B	9.9 B	23.1 B	7.2 B	27.5 K	4.7 B	32.4 B

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW750004	9GW830004	9GW1000004	9GW1010004	9GW1020004	9GW1030004	9GW1030004-D
LOCATION	09GW75	09GW83	09GW100	09GW101	09GW102	09GW103	09GW103
SAMPLE DATE:	10/27/99	10/28/99	10/27/99	11/2/99	10/29/99	11/3/99	11/3/99
ASSOCIATED DUPLICATE:						9GW1030004-D	9GW1030004
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
PETROLEUM HYDROCARBONS							
TOTAL PETROLEUM HYDROCARBONS MG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TPH-DIESEL UG/L	100 U	100 U	100 U	100 U	100 U	100 UJ	100 UJ
MISCELLANEOUS PARAMETERS							
AMMONIA MG/L	0.2 U	0.2 U	0.2	0.09	N/A	0.1	0.09
PERCHLORATE UG/L	8 U	4 U	8 U	7	N/A	4 U	4 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW1040004	9GW1050004	9GW1060004	9GW1070004	9GW1080004	9GW1090004	9GW1100004
LOCATION	09GW104	09GW105	09GW106	09GW107	09GW108	09GW109	09GW110
SAMPLE DATE:	11/4/99	11/2/99	11/2/99	11/3/99	10/29/99	11/2/99	11/3/99
ASSOCIATED DUPLICATE:							
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1.7 J	0.76 J	1 U	1 U	1.2	1.4
CHLOROMETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1.4	3.8	1 U	1 U	0.28 J	1 U	0.29 J
TETRACHLOROETHENE	1 U	2 U	1 U	1 U	1.2	1 U	0.24 J
TRANS-1,2-DICHLOROETHENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	2.1	32	1 U	1 U	2.7	1 U	2.3
SEMIVOLATILES (µg/L)							
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)							
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
EXPLOSIVES (µg/L)							
2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	0.5 U	1.5	0.74	0.5 U	0.5 U	2.6	2.4
RDX	0.5 U	5.7	4.6	0.5 U	0.5 U	3	1.9
INORGANICS (µg/L)							
ALUMINUM	68.3 B	356	53.6 B	47.5 B	322	15800	62.4 B
ARSENIC	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	7.4	2.4 U
BARIUM	76.7	36.4	15.6	52.7	35.3	64.4	41.6
CADMIUM	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
CALCIUM	10500	6380	908	3770	8440	3280	4220
CHROMIUM	2.3 U	2.5	5.9	2.3 U	2.3 U	71.4	2.7
COBALT	2.6 U	2.6 U	5.1	2.6 U	3.6	10.	12.3
COPPER	5.9 B	7.4 B	7.2 B	4.5 B	6.2	30.1	5.7 B
CYANIDE	1.3	1.3	1.3	2.4	1.2 U	1.3	2.4
IRON	420	634	391	750	4080 J	34300	252
LEAD	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	12.3	1.3 U
MAGNESIUM	5920	2760	908	2330	7020	3560	3360
MANGANESE	609	162	42.4	50.5	655	160	1170
MERCURY	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.37	0.07 U
NICKEL	6.6 U	6.6 U	6.6	6.6 U	6.7	9.7	8.5
POTASSIUM	3990 K	2510 K	888 K	2730 K	8490	2190 K	2480 K
SELENIUM	2.4 UJ	2.4 UJ	2.4 UJ	2.4 UJ	2.4 UL	2.4 UJ	2.4 UJ
SILVER	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.9	2.2 U
SODIUM	10100	9390	4590	42600	12200	12600	11100
VANADIUM	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	72.9	2.9 U
ZINC	18.8 B	20.1 B	20.4 B	16.2 B	8.7 B	41.4 B	21.1 B

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW1040004	9GW1050004	9GW1060004	9GW1070004	9GW1080004	9GW1090004	9GW1100004
LOCATION	09GW104	09GW105	09GW106	09GW107	09GW108	09GW109	09GW110
SAMPLE DATE:	11/4/99	11/2/99	11/2/99	11/3/99	10/29/99	11/2/99	11/3/99
ASSOCIATED DUPLICATE:							
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
PETROLEUM HYDROCARBONS							
TOTAL PETROLEUM HYDROCARBONS MG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TPH-DIESEL UG/L	100 UJ	100 U	100 U	100 UJ	120	100 U	100 UJ
MISCELLANEOUS PARAMETERS							
AMMONIA MG/L	0.1	0.1	0.1	0.3	N/A	0.2	0.2
PERCHLORATE UG/L	4 U	16	4 U	4 U	N/A	4 U	8

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GWBLD3670004	9GWC50004	9GWC50004-D	9GWC60004	9GWC140004
LOCATION	BLD367	C-05	C-05	C-06	C-14
SAMPLE DATE:	11/1/99	11/4/99	11/4/99	11/8/99	11/9/99
ASSOCIATED DUPLICATE:		9GWC50004-D	9GWC50004		
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)					
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	4.1	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	0.14 J	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	0.41 J	1 U
CARBON TETRACHLORIDE	1 U	0.9 J	0.94 J	1 U	1 U
CHLOROFORM	1 U	8	8.1	4	1 U
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	5.5	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	0.51 J	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	0.27 J	1 U
TRICHLOROETHENE	1 U	2	2.1	75	1 U
SEMIVOLATILES (µg/L)					
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)					
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
EXPLOSIVES (µg/L)					
2,6-DINITROTOLUENE	0.2 U	0.26	0.25	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	0.5 U	1.7	1.8	0.7	0.5 U
RDX	0.5 U	6.5 J	7.1 J	0.5 U	0.5 U
INORGANICS (µg/L)					
ALUMINUM	16.2 U	75.5 B	70.9 B	46.4 B	152
ARSENIC	2.4 U	2.4 U	2.4 U	2.9 U	2.9 U
BARIUM	40.6	36.7	37.9	32.3	102
CADMIUM	3.2 U	3.2 U	3.2 U	3.2 UL	3.2 UL
CALCIUM	7310	3280	3450	2420	15000
CHROMIUM	2.3 U	4.3	6.2	5.2	3.1
COBALT	2.6 U	2.6 U	2.8	3.5	2.6 U
COPPER	6.2	4.7 B	5.9 B	7.3	2.3
CYANIDE	1.2 U	1.2 U	1.2 U	1.2 B	1.2 U
IRON	2400 J	195 K	185 K	93.6 B	983
LEAD	1.3 U	1.3 U	1.3 U	1.6 U	1.9 K
MAGNESIUM	5350	3410	3530	3280	4780
MANGANESE	73.2	117	117	35.1	114
MERCURY	0.07 U	0.07 U	0.072 U	0.44	0.07 UL
NICKEL	6.6 U	6.6 U	6.6 U	6.6 U	8.5
POTASSIUM	3860	1690 K	1890 K	1540	10800
SELENIUM	2.4 UL	2.4 UJ	2.4 UJ	3.0 U	3.0 U
SILVER	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
SODIUM	4310	7970	8260	19300	13600
VANADIUM	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
ZINC	264	15.2 B	15.8 B	8.8 B	16.4 B

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF POSITIVE ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GWBLD3670004	9GWC50004	9GWC50004-D	9GWC60004	9GWC140004
LOCATION	BLD367	C-05	C-05	C-06	C-14
SAMPLE DATE:	11/1/99	11/4/99	11/4/99	11/8/99	11/9/99
ASSOCIATED DUPLICATE:		9GWC50004-D	9GWC50004		
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
PETROLEUM HYDROCARBONS					
TOTAL PETROLEUM HYDROCARBONS MG/L	1 U	1 U	1 U	1.0 U	1.0 U
TPH-DIESEL UG/L	100 U	100 UJ	100 UJ	100 U	700 J
MISCELLANEOUS PARAMETERS					
AMMONIA MG/L	0.1	0.09	0.1	0.2 U	0.2 U
PERCHLORATE UG/L	4 U	20	25	4 U	4 U

SECTION F

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER ROUND 4 DATA, OCTOBER 1999

SECTION F-1

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER ROUND 4 DATA, OCTOBER 1999

SITE 2

SITE 2
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	2GW300004	2GW300004-D	2GW310004	2GW320004	2GW450004	2GW760004	2GW1000004
LOCATION:	02GW30	02GW30	02GW31	02GW32	02GW45	02GW76	02SB100/2GW100
SAMPLE DATE:	10/22/99	10/22/99	10/19/99	10/20/99	10/19/99	10/21/99	10/21/99
ASSOCIATED DUPLICATE:	2GW300004-D	2GW300004					
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMOETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1	1 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	0.1 B	1 U	1 U
2-BUTANONE	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR
2-HEXANONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYL-2-PENTANONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACETONE	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR
BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	1 U	1 U	1 U	0.1 J	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	0.4 J	1 U	1 U	0.9 J
CHLOROMETHANE	1 U	1 U	1 U	0.2 J	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	0.3 J	0.2 J	1 U	1	1 U	1 U	0.4 J
CIS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
DIBROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	2 U	2 U	2 U	1 B	2 U	2 U	2 U
STYRENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	4	4	1 U	25	0.8 J	1 U	2
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SEMIVOLATILES (µg/L)							
2,2'-OXYBIS(1-CHLOROPROPANE)	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-TRICHLOROPHENOL	20 U	20 UR	20 U	20 U	20 U	20 U	20 U

SITE 2
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	2GW300004	2GW300004-D	2GW310004	2GW320004	2GW450004	2GW760004	2GW1000004
LOCATION:	02GW30	02GW30	02GW31	02GW32	02GW45	02GW76	02SB100/2GW100
SAMPLE DATE:	10/22/99	10/22/99	10/19/99	10/20/99	10/19/99	10/21/99	10/21/99
ASSOCIATED DUPLICATE:	2GW300004-D	2GW300004					
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5 U	5 UR	5 U	5 U	5 U	5 U	5 U
2,4-DICHLOROPHENOL	5 U	5 UR	5 U	5 U	5 U	5 U	5 U
2,4-DIMETHYLPHENOL	5 U	5 UR	5 U	5 U	5 U	5 U	5 U
2,4-DINITROPHENOL	20 U	20 UR	20 U	20 U	20 U	20 U	20 U
2,4-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,6-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLORONAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLOROPHENOL	5 U	5 UR	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLPHENOL	5 U	5 UR	5 U	5 U	5 U	5 U	5 U
2-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-NITROPHENOL	5 U	5 UR	5 U	5 U	5 U	5 U	5 U
3,3'-DICHLOROBENZIDINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 U	20 UR	20 U	20 U	20 U	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLORO-3-METHYLPHENOL	5 U	5 UR	5 U	5 U	5 U	5 U	5 U
4-CHLOROANILINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYLPHENOL	5 U	5 UR	5 U	5 U	5 U	5 U	5 U
4-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-NITROPHENOL	20 U	20 UR	20 U	20 U	20 U	20 U	20 U
ACENAPHTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACENAPHTHYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(B)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(G,H,I)PERYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(K)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHOXY)METHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHYL)ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	2 B	2 B	5 U	5 U	5 U
BUTYLBENZYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHRYSENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DI-N-OCTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZOFURAN	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIMETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
FLUORENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEXAC[illegible]OBENZENE	5 U	5 U	[illegible]	5 U	5 U	5 U	[illegible]
HEXAC[illegible]ROBUTADIENE	5 U	5 U	[illegible]	5 U	5 U	5 U	[illegible]

SITE 2
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	2GW300004	2GW300004-D	2GW310004	2GW320004	2GW450004	2GW760004	2GW1000004
LOCATION:	02GW30	02GW30	02GW31	02GW32	02GW45	02GW76	02SB100/2GW100
SAMPLE DATE:	10/22/99	10/22/99	10/19/99	10/20/99	10/19/99	10/21/99	10/21/99
ASSOCIATED DUPLICATE:	2GW300004-D	2GW300004					
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEXACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
INDENO(1,2,3-CD)PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ISOPHORONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-NITROSO-DI-N-PROPYLAMINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-NITROSODIPHENYLAMINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NITROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PENTACHLOROPHENOL	20 U	20 UR	20 U	20 U	20 U	20 U	20 U
PHENANTHRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PHENOL	5 U	5 UR	5 U	5 U	5 U	5 U	5 U
PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)							
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ALDRIN	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
AROCLOR-1016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1221	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
AROCLOR-1232	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1242	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1248	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1254	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1260	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BETA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DELTA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DIELDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN I	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ENDOSULFAN II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN KETONE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
GAMMA-BHC (LINDANE)	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
METHOXYCHLOR	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
TOXAPHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
EXPLOSIVES (µg/L)							
1,3,5-TRINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-DINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,6-TRINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

SITE 2
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	2GW300004	2GW300004-D	2GW310004	2GW320004	2GW450004	2GW760004	2GW1000004
LOCATION:	02GW30	02GW30	02GW31	02GW32	02GW45	02GW76	02SB100/2GW100
SAMPLE DATE:	10/22/99	10/22/99	10/19/99	10/20/99	10/19/99	10/21/99	10/21/99
ASSOCIATED DUPLICATE:	2GW300004-D	2GW300004					
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
3-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	3.5	3.5	0.5 U	0.5 U	12	0.5 U	0.5 U
NITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.62	0.5 U	0.5 U
TETRYL	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
INORGANICS (µg/L)							
ALUMINUM	130 B	326 B	1310	5550	310 B	566 B	238 B
ANTIMONY	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
ARSENIC	2.3 U	2.3 U	2.3 U	7.9	2.3 U	2.3 U	2.3 U
BARIUM	55.2	59.6	28.2	194	42.8	20.2	1180
BERYLLIUM	0.08 B	0.08 U	0.92 B	5.4 B	0.15 B	0.62 B	0.20 B
CADMIUM	0.84 B	0.78 B	0.53 B	7.4	0.57 B	0.20 U	1.2 B
CALCIUM	57200	60900	2290	99100	25900	1870	183000
CHROMIUM	7.6	8.8	3.3 B	7.0 B	1.2 B	1.8 B	4.7 B
COBALT	2.1 B	2.1 B	9.8	73.5	2.5 B	3.6 B	6.1 B
COPPER	3.2	3.2	2.5	25.7	0.92	0.70 U	12.8 K
CYANIDE	2.6 B	1.0 B	1.3 U	1.3 U	3.8	1.7 B	2.5 B
IRON	310 B	633 J	4030	75.2 B	684	624 J	310 B
LEAD	1.1 U	1.1 U	1.1 U	6.2	1.1 U	1.1 U	1.1 U
MAGNESIUM	32800	35200	1950	65200	12400	808	61800
MANGANESE	2210	2640	564	13100	279	201	410
MERCURY	0.20 U	0.20 U	0.20 UL	1.6	0.20 UL	0.20 U	0.20 U
NICKEL	29.3	31.2	6.3	130	4.0	3.3 B	28.6
POTASSIUM	8500	9030	1900	26800	4050	2200	14700
SELENIUM	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
SILVER	0.60 U	0.60 U	0.60 U	1.3	0.60 U	0.60 U	1.5 B
SODIUM	288000	304000	3530	3270000	190000	69100	678000
THALLIUM	3.0 B	4.1 B	3.9 B	14.2 B	2.9 B	2.7 U	7.9 B
VANADIUM	0.60 U	0.60 U	2.5 B	0.60 U	0.60 U	0.60 U	0.60 UL
ZINC	8.6 B	12.2 B	12.2 K	236	8.1 B	8.5 B	50.0
PETROLEUM HYDROCARBONS							
TOTAL PETROLEUM HYDROCARBONS **MG/L**	1.1 U	0.2	1.1 U	1 U	1 U	110	66
TPH-DIESEL **UG/L**	100 UJ	100 UJ	100 U	100 UJ	160	100 UJ	150 B
MISCELLANEOUS PARAMETERS							
AMMONIA **MG/L**	0.2 U	0.2 U	0.2 U	0.48	0.49	0.2 U	0.2 U
PERCHLORATE **UG/L**	40 U	40 U	4 U	200 U	40 U	10 U	100 U

SITE 2
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	2GW1010004	2GW1020004	2GW1030004	2GW1040004	2GW1050004
LOCATION:	02SB101/2GW101	02GW102	02GW103	02GW104	02GW105
SAMPLE DATE:	10/21/99	10/20/99	10/20/99	10/20/99	10/20/99
ASSOCIATED DUPLICATE:					
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)					
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	0.2 J	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMOETHANE	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	0.1 J	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROBENZENE	0.2 J	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	0.2 B	1 U	1 U	1 U	0.1 B
2-BUTANONE	5 UR	5 UR	5 UR	5 UR	5 UR
2-HEXANONE	5 U	5 U	5 U	5 U	5 U
4-METHYL-2-PENTANONE	5 U	5 U	5 U	5 U	5 U
ACETONE	5 UR	5 UR	5 UR	5 UR	5 UR
BENZENE	1 U	1 U	1 U	1 U	1 U
BROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	1 U	1 U	1 U	1 U
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	0.2 J	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	0.5 J	1 U	1 U	1 U	1 U
CHLOROETHANE	1 U	1 U	1 U	1 U	1 U
CHLOROFORM	0.4 J	1 U	1 U	1 U	1 U
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	0.3 J	3	1 U	2	0.3 J
CIS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U
DIBROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	0.2 B	0.4 B	2 U	2 U	2 U
STYRENE	1 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U
TOLUENE	1 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1	12	0.4 J	0.5 J	1
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U
SEMIVOLATILES (µg/L)					
2,2'-OXYBIS(1-CHLOROPROPANE)	5 UJ	5 U	5 U	5 U	5 U
2,4,5-TRICHLOROPHENOL	20 UJ	20 U	20 U	20 U	20 U

SITE 2
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	2GW1010004	2GW1020004	2GW1030004	2GW1040004	2GW1050004
LOCATION:	02SB101/2GW101	02GW102	02GW103	02GW104	02GW105
SAMPLE DATE:	10/21/99	10/20/99	10/20/99	10/20/99	10/20/99
ASSOCIATED DUPLICATE:					
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5 UJ	5 U	5 U	5 U	5 U
2,4-DICHLOROPHENOL	5 UJ	5 U	5 U	5 U	5 U
2,4-DIMETHYLPHENOL	5 UJ	5 U	5 U	5 U	5 U
2,4-DINITROPHENOL	20 UJ	20 U	20 U	20 U	20 U
2,4-DINITROTOLUENE	5 UJ	5 U	5 U	5 U	5 U
2,6-DINITROTOLUENE	5 UJ	5 U	5 U	5 U	5 U
2-CHLORONAPHTHALENE	5 UJ	5 U	5 U	5 U	5 U
2-CHLOROPHENOL	5 UJ	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	5 UJ	5 U	5 U	5 U	5 U
2-METHYLPHENOL	5 UJ	5 U	5 U	5 U	5 U
2-NITROANILINE	20 UJ	20 U	20 U	20 U	20 U
2-NITROPHENOL	5 UJ	5 U	5 U	5 U	5 U
3,3'-DICHLOROBENZIDINE	5 UJ	5 U	5 U	5 U	5 U
3-NITROANILINE	20 UJ	20 U	20 U	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 UJ	20 U	20 U	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5 UJ	5 U	5 U	5 U	5 U
4-CHLORO-3-METHYLPHENOL	5 UJ	5 U	5 U	5 U	5 U
4-CHLOROANILINE	5 UJ	5 U	5 U	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	5 UJ	5 U	5 U	5 U	5 U
4-METHYLPHENOL	5 UJ	5 U	5 U	5 U	5 U
4-NITROANILINE	20 UJ	20 U	20 U	20 U	20 U
4-NITROPHENOL	20 UJ	20 U	20 U	20 U	20 U
ACENAPHTHENE	5 UJ	5 U	5 U	5 U	5 U
ACENAPHTHYLENE	5 UJ	5 U	5 U	5 U	5 U
ANTHRACENE	5 UJ	5 U	5 U	5 U	5 U
BENZO(A)ANTHRACENE	5 UJ	5 U	5 U	5 U	5 U
BENZO(A)PYRENE	5 UJ	5 U	5 U	5 U	5 U
BENZO(B)FLUORANTHENE	5 UJ	5 U	5 U	5 U	5 U
BENZO(G,H,I)PERYLENE	5 UJ	5 U	5 U	5 U	5 U
BENZO(K)FLUORANTHENE	5 UJ	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHOXY)METHANE	5 UJ	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHYL)ETHER	5 UJ	5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 UJ	2 B	2 B	2 B	2 B
BUTYLBENZYL PHTHALATE	5 UJ	5 U	5 U	5 U	5 U
CHRYSENE	5 UJ	5 U	5 U	5 U	5 U
DI-N-BUTYL PHTHALATE	5 UJ	5 U	5 U	5 U	5 U
DI-N-OCTYL PHTHALATE	5 UJ	5 U	5 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	5 UJ	5 U	5 U	5 U	5 U
DIBENZOFURAN	5 UJ	5 U	5 U	5 U	5 U
DIETHYL PHTHALATE	5 UJ	5 U	5 U	5 U	5 U
DIMETHYL PHTHALATE	5 UJ	5 U	5 U	5 U	5 U
FLUORANTHENE	5 UJ	5 U	5 U	5 U	5 U
FLUORENE	5 UJ	5 U	5 U	5 U	5 U
HEXACHLOROBENZENE	5 UJ	5 U	5 U	5 U	5 U
HEXACHLOROBUTADIENE	5 UJ	5 U	5 U	5 U	5 U

SITE 2
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	2GW1010004	2GW1020004	2GW1030004	2GW1040004	2GW1050004
LOCATION:	02SB101/2GW101	02GW102	02GW103	02GW104	02GW105
SAMPLE DATE:	10/21/99	10/20/99	10/20/99	10/20/99	10/20/99
ASSOCIATED DUPLICATE:					
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5 UJ	5 U	5 U	5 U	5 U
HEXACHLOROETHANE	5 UJ	5 U	5 U	5 U	5 U
INDENO(1,2,3-CD)PYRENE	5 UJ	5 U	5 U	5 U	5 U
ISOPHORONE	5 UJ	5 U	5 U	5 U	5 U
N-NITROSO-DI-N-PROPYLAMINE	5 UJ	5 U	5 U	5 U	5 U
N-NITROSODIPHENYLAMINE	5 UJ	5 U	5 U	5 U	5 U
NAPHTHALENE	5 UJ	5 U	5 U	5 U	5 U
NITROBENZENE	5 UJ	5 U	5 U	5 U	5 U
PENTACHLOROPHENOL	20 UJ	20 U	20 U	20 U	20 U
PHENANTHRENE	5 UJ	5 U	5 U	5 U	5 U
PHENOL	5 U	5 U	5 U	5 U	5 U
PYRENE	5 UJ	5 U	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)					
4,4'-DDD	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
ALDRIN	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
ALPHA-BHC	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
ALPHA-CHLORDANE	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
AROCLOR-1016	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
AROCLOR-1221	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
AROCLOR-1232	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
AROCLOR-1242	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
AROCLOR-1248	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
AROCLOR-1254	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
AROCLOR-1260	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
BETA-BHC	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
DELTA-BHC	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
DIELDRIN	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
ENDOSULFAN I	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
ENDOSULFAN II	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
ENDRIN	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
ENDRIN KETONE	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
GAMMA-BHC (LINDANE)	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
HEPTACHLOR	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
HEPTACHLOR EPOXIDE	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
METHOXYCHLOR	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U
TOXAPHENE	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
EXPLOSIVES (µg/L)					
1,3,5-TRINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-DINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,6-TRINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

SITE 2
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	2GW1010004	2GW1020004	2GW1030004	2GW1040004	2GW1050004
LOCATION:	02SB101/2GW101	02GW102	02GW103	02GW104	02GW105
SAMPLE DATE:	10/21/99	10/20/99	10/20/99	10/20/99	10/20/99
ASSOCIATED DUPLICATE:					
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
3-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	0.5 U	0.5 U	0.5 U	0.5 U	0.73
NITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
RDX	0.5 U	0.5 U	0.64	0.5 U	0.5 U
TETRYL	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
INORGANICS (µg/L)					
ALUMINUM	157 B	9.1 U	75.4 B	654	4360
ANTIMONY	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
ARSENIC	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
BARIUM	255	440	35.4	265	158
BERYLLIUM	0.18 B	0.09 B	0.26 B	0.11 B	0.24 B
CADMIUM	0.50 B	0.20 U	0.40 B	0.29 B	0.97 B
CALCIUM	29500	46800	11600	64900	15700
CHROMIUM	2.2 B	4.8 B	0.93 B	3.5 B	14.1
COBALT	2.7 B	1.8 B	0.60 U	0.60 U	17.4
COPPER	0.70 U	0.70 U	0.70	1.6	22.1
CYANIDE	1.5 B	1.3 U	1.3 U	1.3 U	1.3 U
IRON	250 B	11300	98.7 B	2250	12700
LEAD	1.1 U	1.1 U	1.1 U	1.1 U	2.5 K
MAGNESIUM	17100	18500	3730	19000	9150
MANGANESE	474	1130	104	272	574
MERCURY	0.20 U	0.20 UL	0.20 UL	0.20 UL	0.20 UL
NICKEL	65.6	7.8	6.4	2.1	84.1
POTASSIUM	5430	9060	2870	7300	6550
SELENIUM	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
SILVER	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U
SODIUM	69300	22900	18400	33100	31700
THALLIUM	2.7 U	5.1 B	3.2 B	4.0 B	4.6 B
VANADIUM	0.60 U	0.60 U	0.60 U	2.4 B	6.6
ZINC	38.6	8.2 B	7.7 B	24.2 K	48.1
PETROLEUM HYDROCARBONS					
TOTAL PETROLEUM HYDROCARBONS MG/L	59	1 U	1.1 U	1 U	1 U
TPH-DIESEL UG/L	100 UJ	100 UJ	350 J	100 UJ	100 UJ
MISCELLANEOUS PARAMETERS					
AMMONIA MG/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
PERCHLORATE UG/L	20 U	16 U	8 U	20 U	10 U

SECTION F-2

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER ROUND 4 DATA, OCTOBER 1999

SITE 3

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	3GW170004	3GW180004	3GW190004	3GW470004	3GW770004	3GW78D0004	3GW78S0004	3GW1020004
LOCATION:	03GW17	03GW18	03GW19	03GW47	03GW77	03GW78D	03GW78S	03GW102
SAMPLE DATE:	10/21/99	10/26/99	10/22/99	10/21/99	10/20/99	10/26/99	10/25/99	10/24/99
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
1,1,2-TRICHLOROETHANE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
1,1-DICHLOROETHANE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
1,1-DICHLOROETHENE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	30 U
1,2-DIBROMO-3-CHLOROPROPANE	1 U	1 UR	1 U	1 U	1 U	1 UR	1 UR	30 UR
1,2-DIBROMOETHANE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
1,2-DICHLOROBENZENE	1 U	1 U	0.2 J	1 U	1 U	1 U	1 U	30 U
1,2-DICHLOROETHANE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
1,2-DICHLOROPROPANE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
1,3-DICHLOROBENZENE	1 U	1 U	1 J	1 U	1 U	1 U	1 U	30 U
1,4-DICHLOROBENZENE	1 U	1 U	3 B	1 U	1 U	1 U	1 U	30 U
2-BUTANONE	5 UR	5 UR	10 UR	5 UR	5 UR	5 UR	5 UR	150 UR
2-HEXANONE	5 U	5 U	10 U	5 U	5 U	5 U	5 U	150 U
4-METHYL-2-PENTANONE	5 U	5 U	10 U	5 U	5 U	5 U	5 U	150 U
ACETONE	5 UR	1.7 B	10 UR	5 UR	5 UR	5 UR	5 UR	150 UR
BENZENE	1 U	1 U	2	1 U	1 U	1 U	1 U	30 U
BROMOCHLOROMETHANE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
BROMODICHLOROMETHANE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
BROMOFORM	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
BROMOMETHANE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
CARBON DISULFIDE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
CARBON TETRACHLORIDE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
CHLOROBENZENE	1 U	1 U	35	1 U	1 U	1 U	1 U	30 U
CHLOROETHANE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
CHLOROFORM	1 U	1 U	2 U	1 U	1 U	1 U	0.16 J	30 U
CHLOROMETHANE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
CIS-1,2-DICHLOROETHENE	0.2 J	2.7	24	0.2 J	1	1 U	1 U	520
CIS-1,3-DICHLOROPROPENE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
DIBROMOCHLOROMETHANE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
ETHYLBENZENE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
METHYLENE CHLORIDE	2 U	2 U	1 B	2 U	0.5 B	2 U	2 U	60 U
STYRENE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
TETRACHLOROETHENE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
TOLUENE	1 U	1 U	0.2 B	1 U	0.09 B	1 U	1 U	30 U
TRANS-1,2-DICHLOROETHENE	1 U	0.21 J	4	1 U	1 U	1 U	1 U	6.2 J
TRANS-1,3-DICHLOROPROPENE	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
TRICHLOROETHENE	1 U	0.87 J	0.6 J	0.1 J	0.1 J	1 U	1 U	250
VINYL CHLORIDE	1 U	0.44 J	4	1 U	0.08 J	1 U	1 U	19 J
XYLENES, TOTAL	1 U	1 U	2 U	1 U	1 U	1 U	1 U	30 U
SEMIVOLATILES (µg/L)								
2,2'-OXYBIS(1-CHLOROPROPANE)	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
2,4,5-TRICHLOROPHENOL	20 UJ	20 U	20 U	20 UJ	20 U	20 U	20 U	20 U

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	3GW170004	3GW180004	3GW190004	3GW470004	3GW770004	3GW78D0004	3GW78S0004	3GW1020004
LOCATION:	03GW17	03GW18	03GW19	03GW47	03GW77	03GW78D	03GW78S	03GW102
SAMPLE DATE:	10/21/99	10/26/99	10/22/99	10/21/99	10/20/99	10/26/99	10/25/99	10/24/99
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
2,4-DICHLOROPHENOL	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
2,4-DIMETHYLPHENOL	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
2,4-DINITROPHENOL	20 UJ	20 U	20 U	20 UJ	20 U	20 U	20 U	20 U
2,4-DINITROTOLUENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
2,6-DINITROTOLUENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
2-CHLORONAPHTHALENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
2-CHLOROPHENOL	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
2-METHYLPHENOL	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
2-NITROANILINE	20 UJ	20 U	20 U	20 UJ	20 U	20 U	20 U	20 U
2-NITROPHENOL	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
3,3'-DICHLOROBENZIDINE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
3-NITROANILINE	20 UJ	20 U	20 U	20 UJ	20 U	20 U	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 UJ	20 U	20 U	20 UJ	20 U	20 U	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
4-CHLORO-3-METHYLPHENOL	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
4-CHLOROANILINE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
4-METHYLPHENOL	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
4-NITROANILINE	20 UJ	20 U	20 U	20 UJ	20 U	20 U	20 U	20 U
4-NITROPHENOL	20 UJ	20 U	20 U	20 UJ	20 U	20 U	20 U	20 U
ACENAPHTHENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
ACENAPHTHYLENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
ANTHRACENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
BENZO(A)ANTHRACENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
BENZO(A)PYRENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
BENZO(B)FLUORANTHENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
BENZO(G,H,I)PERYLENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
BENZO(K)FLUORANTHENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHOXY)METHANE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHYL)ETHER	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 UJ	1.4 B	5 U	5 UJ	2 B	3.1 B	5 U	5 U
BUTYLBENZYL PHTHALATE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
CHRYSENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
DI-N-BUTYL PHTHALATE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
DI-N-OCTYL PHTHALATE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
DIBENZOFURAN	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
DIETHYL PHTHALATE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
DIMETHYL PHTHALATE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
FLUORANTHENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
FLUORENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
HEXACHLOROBENZENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
HEXACH[illegible]BUTADIENE	5 UJ	5 U	5 [illegible]	5 UJ	5 U	5 U	5 U	[illegible]

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	3GW170004	3GW180004	3GW190004	3GW470004	3GW770004	3GW78D0004	3GW78S0004	3GW1020004
LOCATION:	03GW17	03GW18	03GW19	03GW47	03GW77	03GW78D	03GW78S	03GW102
SAMPLE DATE:	10/21/99	10/26/99	10/22/99	10/21/99	10/20/99	10/26/99	10/25/99	10/24/99
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
HEXACHLOROETHANE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
INDENO(1,2,3-CD)PYRENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
ISOPHORONE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
N-NITROSO-DI-N-PROPYLAMINE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
N-NITROSODIPHENYLAMINE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
NAPHTHALENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
NITROBENZENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
PENTACHLOROPHENOL	20 UJ	20 U	20 U	20 UJ	20 U	20 U	20 U	20 U
PHENANTHRENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
PHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PYRENE	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)								
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
ALDRIN	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
ALPHA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
AROCLOR-1016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
AROCLOR-1221	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
AROCLOR-1232	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
AROCLOR-1242	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
AROCLOR-1248	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
AROCLOR-1254	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
AROCLOR-1260	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
BETA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
DELTA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
DIELDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
ENDOSULFAN I	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
ENDOSULFAN II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
ENDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
ENDRIN KETONE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
GAMMA-BHC (LINDANE)	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
HEPTACHLOR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
METHOXYCHLOR	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U
TOXAPHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
EXPLOSIVES (µg/L)								
1,3,5-TRINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-DINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,6-TRINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	3GW170004	3GW180004	3GW190004	3GW470004	3GW770004	3GW78D0004	3GW78S0004	3GW1020004
LOCATION:	03GW17	03GW18	03GW19	03GW47	03GW77	03GW78D	03GW78S	03GW102
SAMPLE DATE:	10/21/99	10/26/99	10/22/99	10/21/99	10/20/99	10/26/99	10/25/99	10/24/99
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
3-NITROTOLUENE	0.2 U	0.2 U	0.37 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
NITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRYL	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
INORGANICS (µg/L)								
ALUMINUM	167 B	51.9 B	76.8 B	2010	2970	16.2 U	154 B	16.2 U
ANTIMONY	2.2 U	1.8 U	2.2 U	2.2 U	2.2 U	1.8 U	1.8 U	1.8 U
ARSENIC	2.3 U	2.4 U	2.3 U	2.3 U	2.3 U	2.4 U	2.4 U	2.4 U
BARIUM	97.9	38.5	161	73.7	79.7	98.8	39.2	136
BERYLLIUM	0.14 B	0.10 U	0.35 B	0.47 B	0.13 B	0.10 U	0.10 U	0.10 U
CADMIUM	0.20 U	3.2 UL	0.20 U	0.53 B	1.1 B	3.2 UL	3.2 UL	3.2 UL
CALCIUM	27600	14000	23300	7530	6890	14400	5400	23800
CHROMIUM	1.8 B	2.3 U	5.8	2.4 B	9.5 B	2.3 U	6.4	2.3 U
COBALT	7.3	15.0	3.2 B	4.8 B	5.3 B	2.6 U	3.1	2.6 U
COPPER	0.70 U	3.2 L	2.8	14.0	3.8	0.96 UL	3.5 L	0.96 UL
CYANIDE	1.3 B	1.2 U	3.8 B	22.7 B	1.3 U	1.2 U	1.2 U	1.2 U
IRON	7840 J	7110	24000 J	4230 J	22300	1060	561	5600
LEAD	1.1 U	1.3 U	1.1 U	2.5	3.2 K	1.3 U	1.3 U	1.3 U
MAGNESIUM	18300	10200	10100	2700	4370	6690	3320	10300
MANGANESE	1530	1800	924	621	980	90.5	170	241
MERCURY	0.20 U	0.07 U	0.20 U	0.20 U	0.20 UL	0.07 U	0.07 U	0.07 U
NICKEL	49.0	25.6	7.6 B	6.2 B	9.0	6.6 U	12.9	6.6 U
POTASSIUM	4290	2640	3770	2040	3430	3170	1540	3490
SELENIUM	3.5 U	2.4 UJ	3.5 U	3.5 U	3.5 U	2.4 UJ	2.4 UJ	2.4 UJ
SILVER	0.60 U	2.2 U	0.60 U	0.60 U	0.60 U	2.2 U	2.2 U	2.2 U
SODIUM	13500	10300	21300	16400	33200	12600	11000	10000
THALLIUM	2.7 U	5.9 B	3.3 B	2.7 U	3.5 B	5.0 UL	5.0 U	5.0 UL
VANADIUM	0.60 U	2.9 U	0.60 U	3.4 B	7.5	2.9 U	2.9 U	2.9 U
ZINC	4.0 B	13.0 B	0.50 U	24.5 B	16.8 K	8.3 B	12.2 B	3.2 B
PETROLEUM HYDROCARBONS								
TOTAL PETROLEUM HYDROCARBONS MG/L	1.1 U	1 U	0.6	0.2	1 U	1 U	1 U	1 U
TPH-DIESEL UG/L	100 UJ	100 UJ	100 UJ	100 UJ	100 U	100 U	100 UJ	100 UJ
MISCELLANEOUS PARAMETERS								
AMMONIA MG/L	0.42	0.2	0.4	0.2 U	0.57	0.2 U	0.2 U	0.2 U
PERCHLORATE UG/L	10 U	8 U	10 U	4 U	8 U	8 U	4 U	8 U

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	3GW1040004	3GW1070004
LOCATION:	03GW104	03GW107
SAMPLE DATE:	10/23/99	10/21/99
VALIDATION STATUS:	VALIDATED	VALIDATED
VOLATILES (µg/L)		
1,1,1-TRICHLOROETHANE	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 UR	1 U
1,2-DIBROMOETHANE	1 U	1 U
1,2-DICHLOROBENZENE	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U
1,4-DICHLOROBENZENE	0.15 J	0.2 B
2-BUTANONE	5 UR	5 UR
2-HEXANONE	5 U	5 U
4-METHYL-2-PENTANONE	5 U	5 U
ACETONE	5 UR	5 UR
BENZENE	1 U	0.1 J
BROMOCHLOROMETHANE	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U
BROMOFORM	1 U	1 U
BROMOMETHANE	1 U	1 U
CARBON DISULFIDE	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 UJ
CHLOROBENZENE	1 U	0.4 J
CHLOROETHANE	1 U	1 U
CHLOROFORM	1 U	1 U
CHLOROMETHANE	1 U	1 U
CIS-1,2-DICHLOROETHENE	3.2	1
CIS-1,3-DICHLOROPROPENE	1 U	1 U
DIBROMOCHLOROMETHANE	1 U	1 U
ETHYLBENZENE	1 U	1 U
METHYLENE CHLORIDE	2 U	0.5 B
STYRENE	1 U	1 U
TETRACHLOROETHENE	1 U	0.3 J
TOLUENE	1 U	0.09 B
TRANS-1,2-DICHLOROETHENE	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	1 U
TRICHLOROETHENE	4.5	0.2 J
VINYL CHLORIDE	1 U	1 U
XYLENES, TOTAL	1 U	1 U
SEMIVOLATILES (µg/L)		
2,2'-OXYBIS(1-CHLOROPROPANE)	5 U	5 U
2,4,5-TRICHLOROPHENOL	20 U	20 U

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	3GW1040004	3GW1070004
LOCATION:	03GW104	03GW107
SAMPLE DATE:	10/23/99	10/21/99
VALIDATION STATUS:	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5 U	5 U
2,4-DICHLOROPHENOL	5 U	5 U
2,4-DIMETHYLPHENOL	5 U	5 U
2,4-DINITROPHENOL	20 U	20 U
2,4-DINITROTOLUENE	5 U	5 U
2,6-DINITROTOLUENE	5 U	5 U
2-CHLORONAPHTHALENE	5 U	5 U
2-CHLOROPHENOL	5 U	5 U
2-METHYLNAPHTHALENE	5 U	5 U
2-METHYLPHENOL	5 U	5 U
2-NITROANILINE	20 U	20 U
2-NITROPHENOL	5 U	5 U
3,3'-DICHLOROBENZIDINE	5 U	5 U
3-NITROANILINE	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5 U	5 U
4-CHLORO-3-METHYLPHENOL	5 U	5 U
4-CHLOROANILINE	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	5 U	5 U
4-METHYLPHENOL	5 U	5 U
4-NITROANILINE	20 U	20 U
4-NITROPHENOL	20 U	20 U
ACENAPHTHENE	5 U	5 U
ACENAPHTHYLENE	5 U	5 U
ANTHRACENE	5 U	5 U
BENZO(A)ANTHRACENE	5 U	5 U
BENZO(A)PYRENE	5 U	5 U
BENZO(B)FLUORANTHENE	5 U	5 U
BENZO(G,H,I)PERYLENE	5 U	5 U
BENZO(K)FLUORANTHENE	5 U	5 U
BIS(2-CHLOROETHOXY)METHANE	5 U	5 U
BIS(2-CHLOROETHYL)ETHER	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	2 B
BUTYLBENZYL PHTHALATE	5 U	5 U
CHRYSENE	5 U	5 U
DI-N-BUTYL PHTHALATE	5 U	5 U
DI-N-OCTYL PHTHALATE	5 U	5 U
DIBENZO(A,H)ANTHRACENE	5 U	5 U
DIBENZOFURAN	5 U	5 U
DIETHYL PHTHALATE	5 U	5 U
DIMETHYL PHTHALATE	5 U	5 U
FLUORANTHENE	5 U	5 U
FLUORENE	5 U	5 U
HEXACHLOROBENZENE	5 U	5 U
HEXACHLOROBUTADIENE	5 U	5 U

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	3GW1040004	3GW1070004
LOCATION:	03GW104	03GW107
SAMPLE DATE:	10/23/99	10/21/99
VALIDATION STATUS:	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5 U	5 U
HEXACHLOROETHANE	5 U	5 U
INDENO(1,2,3-CD)PYRENE	5 U	5 U
ISOPHORONE	5 U	5 U
N-NITROSO-DI-N-PROPYLAMINE	5 U	5 U
N-NITROSODIPHENYLAMINE	5 U	5 U
NAPHTHALENE	5 U	5 U
NITROBENZENE	5 U	5 U
PENTACHLOROPHENOL	20 U	20 U
PHENANTHRENE	5 U	5 U
PHENOL	5 U	5 U
PYRENE	5 U	5 U
PESTICIDES/PCBs (µg/L)		
4,4'-DDD	0.10 U	0.10 UJ
4,4'-DDE	0.10 U	0.10 UJ
4,4'-DDT	0.10 U	0.10 UJ
ALDRIN	0.050 U	0.050 UJ
ALPHA-BHC	0.050 U	0.050 UJ
ALPHA-CHLORDANE	0.050 U	0.050 UJ
AROCLOR-1016	1.0 U	1.0 UJ
AROCLOR-1221	2.0 U	2.0 UJ
AROCLOR-1232	1.0 U	1.0 UJ
AROCLOR-1242	1.0 U	1.0 UJ
AROCLOR-1248	1.0 U	1.0 UJ
AROCLOR-1254	1.0 U	1.0 UJ
AROCLOR-1260	1.0 U	1.0 UJ
BETA-BHC	0.050 U	0.050 UJ
DELTA-BHC	0.050 U	0.050 UJ
DIELDRIN	0.10 U	0.10 UJ
ENDOSULFAN I	0.050 U	0.050 UJ
ENDOSULFAN II	0.10 U	0.10 UJ
ENDOSULFAN SULFATE	0.10 U	0.10 UJ
ENDRIN	0.10 U	0.10 UJ
ENDRIN ALDEHYDE	0.10 U	0.10 UJ
ENDRIN KETONE	0.10 U	0.10 UJ
GAMMA-BHC (LINDANE)	0.050 U	0.050 UJ
GAMMA-CHLORDANE	0.050 U	0.050 UJ
HEPTACHLOR	0.050 U	0.050 UJ
HEPTACHLOR EPOXIDE	0.050 U	0.050 UJ
METHOXYCHLOR	0.50 U	0.50 UJ
TOXAPHENE	5.0 U	5.0 UJ
EXPLOSIVES (µg/L)		
1,3,5-TRINITROBENZENE	0.2 U	0.2 U
1,3-DINITROBENZENE	0.2 U	0.2 U
2,4,6-TRINITROTOLUENE	0.2 U	0.2 U

SITE 3
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	3GW1040004	3GW1070004
LOCATION:	03GW104	03GW107
SAMPLE DATE:	10/23/99	10/21/99
VALIDATION STATUS:	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	0.2 U	0.2 U
2,6-DINITROTOLUENE	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U
2-NITROTOLUENE	0.2 U	0.2 U
3-NITROTOLUENE	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U
4-NITROTOLUENE	0.2 U	0.2 U
HMX	0.5 U	1
NITROBENZENE	0.2 U	0.2 U
RDX	0.5 U	0.95
TETRYL	0.2 U	0.2 U
INORGANICS (µg/L)		
ALUMINUM	89.3 B	1450
ANTIMONY	1.8 U	2.2 U
ARSENIC	2.4 U	2.3 U
BARIUM	137	72.3
BERYLLIUM	0.10 U	0.08 B
CADMIUM	3.2 UL	0.86 B
CALCIUM	18400	6610
CHROMIUM	2.3 U	3.0 B
COBALT	4.2	19.1
COPPER	5.3 L	4.4
CYANIDE	1.2 U	3.4 B
IRON	3760	3540 J
LEAD	1.3 U	2.3
MAGNESIUM	7800	5000
MANGANESE	340	2230
MERCURY	0.07 U	0.20 U
NICKEL	6.6 U	23.8
POTASSIUM	4820	4310
SELENIUM	2.4 UJ	3.5 U
SILVER	2.2 U	0.60 U
SODIUM	9570	21300
THALLIUM	8.0 B	5.3 B
VANADIUM	2.9 U	3.2 B
ZINC	18.9 B	22.2 B
PETROLEUM HYDROCARBONS		
TOTAL PETROLEUM HYDROCARBONS **MG/L**	1 U	1.4 U
TPH-DIESEL **UG/L**	100 UJ	320 UJ
MISCELLANEOUS PARAMETERS		
AMMONIA **MG/L**	0.2 U	0.4
PERCHLORATE **UG/L**	8 U	4 U

SECTION F-3

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER ROUND 4 DATA, OCTOBER 1999

SITE 4

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW100004	4GW110004	4GW120004	4GW130004	4GW150004	4GW480004	4GW49D0004	4GW500004
LOCATION:	04GW10	04GW11	04GW12	04GW13	04GW15	04GW48	04GW49D	04GW50
SAMPLE DATE:	11/10/99	11/11/99	11/05/99	11/08/99	11/08/99	11/11/99	11/08/99	11/03/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	0.9 J	10 U	1 U	100 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	45	10 U	1 U	290
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	0.41 J	10 U	1 U	100 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	10 U	0.31 J	100 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
1,2-DIBROMO-3-CHLOROPROPANE	1 UR	1 UR	1 UR	1 UR	1 UR	10 UR	1 UR	100 UR
1,2-DIBROMOETHANE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1.8	10 U	1 U	100 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
1,3-DICHLOROBENZENE	1 U	1 U	1 U	0.18 J	1 U	10 U	1 U	100 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	0.64 J	1 U	10 U	1 U	100 U
2-BUTANONE	5 UR	5 UR	5 UR	5 UR	5 UR	50 UR	5 UR	500 UR
2-HEXANONE	5 U	5 U	5 U	5 U	5 U	50 U	5 U	500 U
4-METHYL-2-PENTANONE	5 U	5 U	5 U	5 U	5 U	50 U	5 UR	500 U
ACETONE	5 UR	3.1 B	5 UR	5 UR	5 UR	50 UR	5 U	500 UR
BENZENE	1 U	1.5	1 U	1	1 U	10 U	1 U	100 U
BROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
BROMOFORM	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
CARBON DISULFIDE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
CHLOROBENZENE	5.6	0.98 J	1 U	5.9	0.13 J	1.3 J	1 U	20 J
CHLOROETHANE	1 UJ	1 UJ	1 U	1 U	1 UJ	10 UJ	1 UJ	100 UJ
CHLOROFORM	1 U	1 U	1 U	1 U	0.16 J	10 U	1 U	100 U
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
CIS-1,2-DICHLOROETHENE	0.6 J	1 U	1 U	14	3.3	2.6 J	1 U	130
CIS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
DIBROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	2 U	20 U	2 U	200 U
STYRENE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	0.77 J	2.2 J	1 U	100 U
TOLUENE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	0.15 J	10 U	1 U	100 U
TRANS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
TRICHLOROETHENE	3.4	1 U	1 U	13	68	420	0.11 J	740
VINYL CHLORIDE	1 U	1 U	1 U	4.2	0.29 J	10 U	1 U	18 J
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	10 U	1 U	100 U
SEMIVOLATILES (µg/L)								
2,2'-OXYBIS(1-CHLOROPROPANE)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-TRICHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW100004	4GW110004	4GW120004	4GW130004	4GW150004	4GW480004	4GW49D0004	4GW500004
LOCATION:	04GW10	04GW11	04GW12	04GW13	04GW15	04GW48	04GW49D	04GW50
SAMPLE DATE:	11/10/99	11/11/99	11/05/99	11/08/99	11/08/99	11/11/99	11/08/99	11/03/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DIMETHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DINITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,6-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLORONAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-NITROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3,3'-DICHLOROBENZIDINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLORO-3-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROANILINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-NITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ACENAPHTHENE	5 U	2.6 J	5 U	5 U	5 U	5 U	5 U	5 U
ACENAPHTHYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(B)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(G,H,I)PERYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(K)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHOXY)METHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHYL)ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BUTYLBENZYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHRYSENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DI-N-OCTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZOFURAN	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIMETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
FLUORE[illegible]	5 U	5 U	5 [illegible]	5 U	5 U	5 U	5 U	5 U
HEXAC[illegible]OBENZENE	5 U	5 U	[illegible]	5 U	5 U	5 U	5 U	[illegible]
HEXACH[illegible]OBUTADIENE	5 U	5 U	5 [illegible]	5 U	5 U	5 U	5 U	[illegible]

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW100004	4GW110004	4GW120004	4GW130004	4GW150004	4GW480004	4GW49D0004	4GW500004
LOCATION:	04GW10	04GW11	04GW12	04GW13	04GW15	04GW48	04GW49D	04GW50
SAMPLE DATE:	11/10/99	11/11/99	11/05/99	11/08/99	11/08/99	11/11/99	11/08/99	11/03/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEXACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
INDENO(1,2,3-CD)PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ISOPHORONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-NITROSO-DI-N-PROPYLAMINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-NITROSODIPHENYLAMINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NITROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PENTACHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
PHENANTHRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)								
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ALDRIN	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
AROCLOR-1016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1221	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
AROCLOR-1232	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1242	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1248	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1254	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1260	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BETA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DELTA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DIELDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN I	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ENDOSULFAN II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN KETONE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
GAMMA-BHC (LINDANE)	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
METHOXYCHLOR	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
TOXAPHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
EXPLOSIVES (µg/L)								
1,3,5-TRINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-DINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,6-TRINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW100004	4GW110004	4GW120004	4GW130004	4GW150004	4GW480004	4GW49D0004	4GW500004
LOCATION:	04GW10	04GW11	04GW12	04GW13	04GW15	04GW48	04GW49D	04GW50
SAMPLE DATE:	11/10/99	11/11/99	11/05/99	11/08/99	11/08/99	11/11/99	11/08/99	11/03/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
3-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.34 UJ
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.72	0.5 U	0.5 U
NITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRYL	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
INORGANICS (µg/L)								
ALUMINUM	1280	1170	273 B	118 B	25.4 B	449	26.9 B	4170
ANTIMONY	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.8 U
ARSENIC	3.3 K	2.9 K	3.4 B	2.9 U	2.9 U	3.0 K	2.9 U	7.8
BARIUM	47.2	81.1	44.6	36.2	41.2	33.3	38.4	72.1
BERYLLIUM	0.10 U	0.10 U	0.10 U	0.13 B	0.10 U	0.10 U	0.10 U	0.22 B
CADMIUM	3.2 UL	3.2 UL	3.2 UL	3.2 UL	3.2 UL	3.2 UL	3.2 UL	3.2 U
CALCIUM	89800	73800	26200	34100	27500	39200	21200	51300
CHROMIUM	3.2	3.6	28.6	5.5	6.0	2.3 U	2.3 U	59.1
COBALT	2.6 U	2.8	29.6	11.0	2.6 U	2.6 U	9.3	17.6
COPPER	0.96 U	22.1	5.4 B	5.4 B	3.9 B	0.96 U	3.8 B	38.9
CYANIDE	1.2 U	1.2 U	1.2 U	1.5 B	1.2 U	1.2 U	1.2 U	3.0
IRON	2800	14200	1500	3700	82.0 B	1110	2090	36400
LEAD	2.0 K	13.8	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	6.2
MAGNESIUM	17800	17400	16700	17800	11500	4730	8860	17800
MANGANESE	227	1060	1810	1500	33.4	28.2	330	1400
MERCURY	0.07 UL	0.07 UL	3.5	0.78	0.25	0.07 UL	0.07 U	3.7
NICKEL	6.6 U	6.6 U	27.7	8.9	6.6 U	6.6 U	6.6 U	12.3
POTASSIUM	3560	4260	2010	2940	2520	2000	4210	5740 K
SELENIUM	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	2.4 UJ
SILVER	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	3.6
SODIUM	9820	6950	11300	7020	8770	2480	14900	9610
THALLIUM	3.8 U	3.8 U	3.8 U	3.8 U	5.9 B	3.8 U	4.6 B	10.1 B
VANADIUM	5.3	2.9	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	31.6
ZINC	7.7 B	103	6.9 B	7.8 B	9.0 B	4.2 B	7.5 B	25.4 B
PETROLEUM HYDROCARBONS								
TOTAL PETROLEUM HYDROCARBONS **MG/L**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
TPH-DIESEL **UG/L**	100 UJ	620 J	250	100 U	100 U	550 J	100 U	630
MISCELLANEOUS PARAMETERS								
AMMONIA **MG/L**	0.3	0.63	0.4	0.55	0.2 U	0.2 U	0.58	0.58
PERCHLORATE **UG/L**	10 U	10 U	4 U	8 U	76	4 U	8 U	4 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW520004	4GW520004-D	4GW790004	4GW790004-D	4GW800004	4GW81D0004	4GW81S0004	4GW820004
LOCATION:	04GW52	04GW52	04GW79	04GW79	04GW80	04GW81D	04GW81S	04GW82
SAMPLE DATE:	11/08/99	11/08/99	11/09/99	11/09/99	11/08/99	11/10/99	11/05/99	11/04/99
ASSOCIATED DUPLICATE:	4GW520004-D	4GW520004	4GW790004-D	4GW790004				
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	6	4	5.9	1 U	4	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	2 U	2 U	0.2 J	1 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 UR	1 UR	2 UR	2 UR	1 UR	1 UR	1 UR	1 UR
1,2-DIBROMOETHANE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	2 U	2 U	0.64 J	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
2-BUTANONE	5 UR	5 UR	10 UR	10 UR	5 UR	5 UR	5 UR	5 UR
2-HEXANONE	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
4-METHYL-2-PENTANONE	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
ACETONE	5 UR	5 UR	10 UR	10 UR	1 B	5 UR	5 UR	5 UR
BENZENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
BROMOCHLOROMETHANE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
BROMOMETHANE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U	2 U	2 U	0.16 J	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 UJ	1 UJ	2 UJ	2 UJ	1 UJ	1 UJ	1 U	1 UJ
CHLOROFORM	0.18 B	0.19 B	2 U	2 U	1.3 B	0.24 B	0.32 J	1.7
CHLOROMETHANE	1 U	0.12 J	2 U	2 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	0.4 J	0.31 J	3.5	0.11 J	0.49 J	1 U
CIS-1,3-DICHLOROPROPENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
DIBROMOCHLOROMETHANE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	2 U	2 U	4 U	4 U	2 U	2 U	2 U	2 U
STYRENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	0.22 J	2 U	1.3	0.49 J	1.4	1 U
TOLUENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	2 U	2 U	0.79 J	1 U	0.28 J	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	0.17 J	1 U	26	21	77	0.44 J	1.5	1 U
VINYL CHLORIDE	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U
SEMIVOLATILES (µg/L)								
2,2'-OXYBIS(1-CHLOROPROPANE)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-TRICHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW520004	4GW520004-D	4GW790004	4GW790004-D	4GW800004	4GW81D0004	4GW81S0004	4GW820004
LOCATION:	04GW52	04GW52	04GW79	04GW79	04GW80	04GW81D	04GW81S	04GW82
SAMPLE DATE:	11/08/99	11/08/99	11/09/99	11/09/99	11/08/99	11/10/99	11/05/99	11/04/99
ASSOCIATED DUPLICATE:	4GW520004-D	4GW520004	4GW790004-D	4GW790004				
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DIMETHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DINITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,6-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLORONAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-NITROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3,3'-DICHLOROBENZIDINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLORO-3-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROANILINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-NITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ACENAPHTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACENAPHTHYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(B)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(G,H,I)PERYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(K)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHOXY)METHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHYL)ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BUTYLBENZYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHRYSENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DI-N-OCTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZOFURAN	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIMETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
FLUORENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEXACHLOROBENZENE	5 U	5 U	[illegible]	5 U	5 U	5 U	5 U	[illegible] U
HEXACHLOROBUTADIENE	5 U	5 U	[illegible]	5 U	5 U	5 U	5 U	[illegible] U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW520004	4GW520004-D	4GW790004	4GW790004-D	4GW800004	4GW81D0004	4GW81S0004	4GW820004
LOCATION:	04GW52	04GW52	04GW79	04GW79	04GW80	04GW81D	04GW81S	04GW82
SAMPLE DATE:	11/08/99	11/08/99	11/09/99	11/09/99	11/08/99	11/10/99	11/05/99	11/04/99
ASSOCIATED DUPLICATE:	4GW520004-D	4GW520004	4GW790004-D	4GW790004				
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEXACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
INDENO(1,2,3-CD)PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ISOPHORONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-NITROSO-DI-N-PROPYLAMINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-NITROSODIPHENYLAMINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NITROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PENTACHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
PHENANTHRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)								
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ALDRIN	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
AROCLOR-1016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1221	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
AROCLOR-1232	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1242	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1248	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1254	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1260	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BETA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DELTA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DIELDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN I	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ENDOSULFAN II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN KETONE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
GAMMA-BHC (LINDANE)	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
METHOXYCHLOR	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
TOXAPHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
EXPLOSIVES (µg/L)								
1,3,5-TRINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-DINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,6-TRINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW520004	4GW520004-D	4GW790004	4GW790004-D	4GW800004	4GW81D0004	4GW81S0004	4GW820004
LOCATION:	04GW52	04GW52	04GW79	04GW79	04GW80	04GW81D	04GW81S	04GW82
SAMPLE DATE:	11/08/99	11/08/99	11/09/99	11/09/99	11/08/99	11/10/99	11/05/99	11/04/99
ASSOCIATED DUPLICATE:	4GW520004-D	4GW520004	4GW790004-D	4GW790004				
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.29	0.21	0.2 U
2-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
3-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	0.5 U	0.5 U	0.5 U	0.5 U	1.4	1.9	1.8	0.5 U
NITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.52	0.91	0.67	0.5 U
TETRYL	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
INORGANICS (µg/L)								
ALUMINUM	109	73.7	19.7	19.0	170	80.7	168 B	380 B
ANTIMONY	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
ARSENIC	2.9 U	3.6 K	3.0 K	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
BARIUM	105	110	47.5	47.6	21.6	89.4	81.7	60.3
BERYLLIUM	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.13 B	0.22 B
CADMIUM	3.2 UL	3.2 UL	3.2 UL	3.2 UL	3.2 UL	3.2 UL	3.2 UL	3.2 UL
CALCIUM	7670	7940	19500	20100	4140	3660	2810	2260
CHROMIUM	2.3 U	2.3 U	2.3 U	2.3 U	24.5	2.3 U	27.3	2.3 U
COBALT	28.4	28.9	2.6 U	2.6 U	11.3	3.4	21.4	9.2
COPPER	16.7	18.8	1.3	1.8	3.0	2.2	17.2	14.8
CYANIDE	1.2 U	1.2 U	1.4	1.2 U	1.2 U	1.2 U	1.2 U	1.5 B
IRON	601	599	112 B	69.7 B	7540	98.8 B	2370	1730
LEAD	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
MAGNESIUM	17700	18400	11200	11200	3660	7190	5520	5150
MANGANESE	336	345	387	389	138	90.0	141	114
MERCURY	4.2	4.2	3.2	3.2	1.0	4.5	2.4	0.07 U
NICKEL	30.9	23.1	6.6 U	6.6 U	42.2	6.6 U	46.6	41.5
POTASSIUM	2350	2580	1570	2010	1760	1460	1690	2240
SELENIUM	4.7 K	6.4 K	3.0 U	3.0 U	3.0 U	4.9 K	3.4 K	3.0 U
SILVER	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	3.0 B	2.2 U
SODIUM	7650	8160	11000	11000	72400	6920	8590	36700
THALLIUM	3.8	3.8 U	3.8 U	3.8 U	7.9	3.8	3.8 U	5.3 B
VANADIUM	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
ZINC	10.7 B	15.0 B	6.9 B	23.6 B	8.9 B	46.5	17.1 B	53.8
PETROLEUM HYDROCARBONS								
TOTAL PETROLEUM HYDROCARBONS **MG/L**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TPH-DIESEL **UG/L**	140	500	100 UJ	150 J	940	100 UJ	100 U	100 U
MISCELLANEOUS PARAMETERS								
AMMONIA **MG/L**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08	0.44
PERCHLORATE **UG/L**	8 U	4 U	4 U	4 U	10	4 U	4 U	4 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW890004	4GW1000004	4GW1010004	4GW1030004	4GW1040004	4GW1050004	4GW1060004	4GW1070004
LOCATION:	04PZ89	04GW100	04GW101	04GW103	04GW104	04GW105	04GW106	04GW107
SAMPLE DATE:	11/09/99	11/04/99	11/10/99	11/09/99	11/03/99	11/05/99	11/05/99	11/05/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	2 U	1 U	1 U	1 U	1 U	380	1 U	1 U
1,1,2-TRICHLOROETHANE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
1,1-DICHLOROETHANE	2 U	1 U	1 U	0.27 J	1 U	200 U	1 U	1 U
1,1-DICHLOROETHENE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
1,2,4-TRICHLOROBENZENE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	2 UR	1 UR	1 UR	1 UR	1 UR	200 UR	1 UR	1 UR
1,2-DIBROMOETHANE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
1,2-DICHLOROBENZENE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
1,2-DICHLOROETHANE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
1,2-DICHLOROPROPANE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
1,3-DICHLOROBENZENE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
1,4-DICHLOROBENZENE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
2-BUTANONE	10 UR	5 UR	5 UR	5 UR	5 UR	1000 UR	5 UR	5 UR
2-HEXANONE	10 U	5 U	5 U	5 U	5 U	1000 U	5 U	5 U
4-METHYL-2-PENTANONE	10 U	5 U	5 U	5 U	5 U	1000 U	5 U	5 U
ACETONE	10 UR	5 UR	5 UR	2.4 B	5 UR	1000 UR	5 UR	5 UR
BENZENE	2 U	1 U	1	0.51 J	1 U	200 U	1 U	1 U
BROMOCHLOROMETHANE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
BROMODICHLOROMETHANE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
BROMOFORM	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
BROMOMETHANE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
CARBON DISULFIDE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
CARBON TETRACHLORIDE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
CHLOROBENZENE	2 U	1 U	5.6	0.13 J	1 U	43 J	1 U	1 U
CHLOROETHANE	2 UJ	1 UJ	1 UJ	1 UJ	1 UJ	200 U	1 U	1 U
CHLOROFORM	2 U	1 U	1 U	1 U	1 U	20 J	0.13 J	1 U
CHLOROMETHANE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	2 U	1 U	0.2 J	0.12 J	1 U	340	1 U	0.23 J
CIS-1,3-DICHLOROPROPENE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
DIBROMOCHLOROMETHANE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
ETHYLBENZENE	2 U	1 U	1 U	0.81 J	1 U	200 U	1 U	1 U
METHYLENE CHLORIDE	4 U	2 U	2 U	2 U	2 U	400 U	2 U	2 U
STYRENE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
TETRACHLOROETHENE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
TOLUENE	2 U	1 U	1 U	0.16 J	1 U	200 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	2 U	1 U	1 U	1 U	1 U	200 U	1 U	1 U
TRICHLOROETHENE	19	2.7	1.5	2.7	1 U	1400	1 U	5.1
VINYL CHLORIDE	2 U	1 U	0.24 J	1 U	1 U	200 U	1 U	1 U
XYLENES, TOTAL	2 U	1 U	1 U	2.2	1 U	200 U	1 U	1 U
SEMIVOLATILES (µg/L)								
2,2'-OXYBIS(1-CHLOROPROPANE)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-TRICHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW890004	4GW1000004	4GW1010004	4GW1030004	4GW1040004	4GW1050004	4GW1060004	4GW1070004
LOCATION:	04PZ89	04GW100	04GW101	04GW103	04GW104	04GW105	04GW106	04GW107
SAMPLE DATE:	11/09/99	11/04/99	11/10/99	11/09/99	11/03/99	11/05/99	11/05/99	11/05/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DIMETHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DINITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,6-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLORONAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	5 U	5 U	5 U	3 J	5 U	5 U	5 U	5 U
2-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-NITROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3,3'-DICHLOROBENZIDINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLORO-3-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROANILINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-NITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ACENAPHTHENE	5 U	5 U	0.9 J	5 U	5 U	5 U	5 U	5 U
ACENAPHTHYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(B)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(G,H,I)PERYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(K)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHOXY)METHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHYL)ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BUTYLBENZYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHRYSENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DI-N-OCTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZOFURAN	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIMETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
FLUORENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEXACHL[illegible]ENZENE	[illegible]	5 U	5 [illegible]	5 U	5 U	5 U	5 U	[illegible] U
HEXACHLO[illegible]BUTADIENE	[illegible]	5 U	5 [illegible]	5 U	5 U	5 U	5 U	[illegible] U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW890004	4GW1000004	4GW1010004	4GW1030004	4GW1040004	4GW1050004	4GW1060004	4GW1070004
LOCATION:	04PZ89	04GW100	04GW101	04GW103	04GW104	04GW105	04GW106	04GW107
SAMPLE DATE:	11/09/99	11/04/99	11/10/99	11/09/99	11/03/99	11/05/99	11/05/99	11/05/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEXACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
INDENO(1,2,3-CD)PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ISOPHORONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-NITROSO-DI-N-PROPYLAMINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-NITROSODIPHENYLAMINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	5 U	5 U	5 U	2.1 J	5 U	5 U	5 U	5 U
NITROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PENTACHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
PHENANTHRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PHENOL	5 U	5 U	5 U	0.59 J	5 U	5 U	5 U	5 U
PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)								
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ALDRIN	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
AROCLOR-1016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1221	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
AROCLOR-1232	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1242	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1248	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1254	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1260	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BETA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DELTA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DIELDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN I	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ENDOSULFAN II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	0.10 U	0.10 U	0.10 U	0.10 U	0.060 R	0.10 U	0.10 U	0.10 U
ENDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN KETONE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
GAMMA-BHC (LINDANE)	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
METHOXYCHLOR	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
TOXAPHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
EXPLOSIVES (µg/L)								
1,3,5-TRINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-DINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,6-TRINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW890004	4GW1000004	4GW1010004	4GW1030004	4GW1040004	4GW1050004	4GW1060004	4GW1070004
LOCATION:	04PZ89	04GW100	04GW101	04GW103	04GW104	04GW105	04GW106	04GW107
SAMPLE DATE:	11/09/99	11/04/99	11/10/99	11/09/99	11/03/99	11/05/99	11/05/99	11/05/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
3-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.79 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
NITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRYL	0.2 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
INORGANICS (µg/L)								
ALUMINUM	590	20500	86.6	480	738	22.9 B	71.2 B	53.0 B
ANTIMONY	1.4 U	1.8	1.4 U	1.4 U	1.8 U	1.4 U	1.4 U	1.4 U
ARSENIC	2.9 U	12.3	2.9 U	2.9 K	2.4 U	2.9 U	3.4 B	2.9 U
BARIUM	39.2	67.6	57.5	59.5	53.9	62.6	142	39.4
BERYLLIUM	0.11 B	0.47 B	0.10 U	0.10 U	0.10 U	0.18 B	0.10 U	0.10 U
CADMIUM	3.2 UL	3.2 U	3.2 UL	3.2 UL	3.2 U	3.2 UL	3.2 UL	3.2 UL
CALCIUM	15200	12900	66500	22500	9420	59300	10800	15100
CHROMIUM	12.8	44.6	2.3 U	18.7	2.3 U	2.5	4.5	2.3 U
COBALT	5.8	7	10.1	11.3	4.2	7.2	16.5	10.4
COPPER	3.1	34.3	5.2	1.8	6.6 B	4.2 B	3.7 B	5.3 B
CYANIDE	1.2 U	1.5	1.2 U	1.2 U	2.8	1.5 B	1.2 U	1.2 U
IRON	1780	30900	21900	15200	1770	33300	8800	656
LEAD	6.6	11.7	2.4 K	1.6 U	1.3 U	1.6 U	1.6	1.6 U
MAGNESIUM	9100	7970	20200	19400	8730	19500	11000	9520
MANGANESE	309	186	1710	977	129	1330	1500	387
MERCURY	2.7	1.7	0.07 UL	0.07 UL	1.4	0.07 U	0.16	0.63
NICKEL	11.8	6.6 U	9.5	28.6	6.6 U	6.6 U	9.7	6.6 U
POTASSIUM	1830	2630 K	4170	5850	1220 K	4000	1780	1880
SELENIUM	3.0 U	2.4 UJ	3.0 U	3.0 U	2.4 UJ	3.0 U	3.0 U	3.0 U
SILVER	2.2 U	4.0	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
SODIUM	11000	8560	8170	19900	9240	10400	13800	10800
THALLIUM	3.8 U	8.5 B	3.8 U	3.8 U	7.9 B	3.8 U	3.9 B	3.8 U
VANADIUM	2.9 U	76.0	2.9 U	2.9 U	3.2	2.9 U	2.9 U	2.9 U
ZINC	24.7 B	43.1	10.0 B	10.9 B	18.5 B	6.4 B	5.6 B	5.3 B
PETROLEUM HYDROCARBONS								
TOTAL PETROLEUM HYDROCARBONS MG/L	1.0 U	1 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U
TPH-DIESEL UG/L	100 UJ	100 UJ	480 J	530 J	100 U	100 U	100 U	100 U
MISCELLANEOUS PARAMETERS								
AMMONIA MG/L	0.2 U	0.3	1	0.2 U	0.1	0.58	0.1	0.2
PERCHLORATE UG/L	4 U	4 U	[illegible] U	10 U	4 U	4 U	4 U	4 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW1080004	4GW1090004	4GW1100004
LOCATION:	04GW108	04GW109	04GW110
SAMPLE DATE:	11/08/99	11/10/99	11/04/99
ASSOCIATED DUPLICATE:			
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)			
1,1,1-TRICHLOROETHANE	1 U	5 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	26	1 U
1,1,2-TRICHLOROETHANE	1 U	1 J	1 U
1,1-DICHLOROETHANE	1 U	5 U	1 U
1,1-DICHLOROETHENE	1 U	5 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	5 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 UR	5 UR	1 UR
1,2-DIBROMOETHANE	1 U	5 U	1 U
1,2-DICHLOROBENZENE	1 U	5 U	1 U
1,2-DICHLOROETHANE	1 U	5 U	1 U
1,2-DICHLOROPROPANE	1 U	5 U	1 U
1,3-DICHLOROBENZENE	1 U	5 U	1 U
1,4-DICHLOROBENZENE	1 U	5 U	1 U
2-BUTANONE	5 UR	25 UR	5 UR
2-HEXANONE	5 U	25 U	5 U
4-METHYL-2-PENTANONE	5 U	25 U	5 U
ACETONE	5 UR	25 UR	5 UR
BENZENE	1 U	5 U	1 U
BROMOCHLOROMETHANE	1 U	5 U	1 U
BROMODICHLOROMETHANE	1 U	5 U	1 U
BROMOFORM	1 U	5 U	1 U
BROMOMETHANE	1 U	5 U	1 U
CARBON DISULFIDE	1 U	5 U	1 U
CARBON TETRACHLORIDE	1 U	5 U	1 U
CHLOROBENZENE	1 U	5 U	1 U
CHLOROETHANE	1 U	5 UJ	1 UJ
CHLOROFORM	1	5 U	1 U
CHLOROMETHANE	1 U	5 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	3 J	5.5
CIS-1,3-DICHLOROPROPENE	1 U	5 U	1 U
DIBROMOCHLOROMETHANE	1 U	5 U	1 U
ETHYLBENZENE	1 U	5 U	1 U
METHYLENE CHLORIDE	2 U	10 U	2 U
STYRENE	1 U	5 U	1 U
TETRACHLOROETHENE	1 U	1.4 J	8.1
TOLUENE	1 U	5 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	2.3 J	0.21 J
TRANS-1,3-DICHLOROPROPENE	1 U	5 U	1 U
TRICHLOROETHENE	1 U	5.5	8.3
VINYL CHLORIDE	1 U	5 U	1 U
XYLENES, TOTAL	1 U	5 U	1 U
SEMIVOLATILES (µg/L)			
2,2'-OXYBIS(1-CHLOROPROPANE)	5 U	5 U	5 U
2,4,5-TRICHLOROPHENOL	20 U	20 U	20 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW1080004	4GW1090004	4GW1100004
LOCATION:	04GW108	04GW109	04GW110
SAMPLE DATE:	11/08/99	11/10/99	11/04/99
ASSOCIATED DUPLICATE:			
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5 U	5 U	5 U
2,4-DICHLOROPHENOL	5 U	5 U	5 U
2,4-DIMETHYLPHENOL	5 U	5 U	5 U
2,4-DINITROPHENOL	20 U	20 U	20 U
2,4-DINITROTOLUENE	5 U	5 U	5 U
2,6-DINITROTOLUENE	5 U	5 U	5 U
2-CHLORONAPHTHALENE	5 U	5 U	5 U
2-CHLOROPHENOL	5 U	5 U	5 U
2-METHYLNAPHTHALENE	5 U	5 U	5 U
2-METHYLPHENOL	5 U	5 U	5 U
2-NITROANILINE	20 U	20 U	20 U
2-NITROPHENOL	5 U	5 U	5 U
3,3'-DICHLOROBENZIDINE	5 U	5 U	5 U
3-NITROANILINE	20 U	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 U	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5 U	5 U	5 U
4-CHLORO-3-METHYLPHENOL	5 U	5 U	5 U
4-CHLOROANILINE	5 U	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	5 U	5 U	5 U
4-METHYLPHENOL	5 U	5 U	5 U
4-NITROANILINE	20 U	20 U	20 U
4-NITROPHENOL	20 U	20 U	20 U
ACENAPHTHENE	5 U	5 U	5 U
ACENAPHTHYLENE	5 U	5 U	5 U
ANTHRACENE	5 U	5 U	5 U
BENZO(A)ANTHRACENE	5 U	5 U	5 U
BENZO(A)PYRENE	5 U	5 U	5 U
BENZO(B)FLUORANTHENE	5 U	5 U	5 U
BENZO(G,H,I)PERYLENE	5 U	5 U	5 U
BENZO(K)FLUORANTHENE	5 U	5 U	5 U
BIS(2-CHLOROETHOXY)METHANE	5 U	5 U	5 U
BIS(2-CHLOROETHYL)ETHER	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	1.3 J	5 U
BUTYLBENZYL PHTHALATE	5 U	5 U	5 U
CHRYSENE	5 U	5 U	5 U
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U
DI-N-OCTYL PHTHALATE	5 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	5 U	5 U	5 U
DIBENZOFURAN	5 U	5 U	5 U
DIETHYL PHTHALATE	5 U	5 U	5 U
DIMETHYL PHTHALATE	5 U	5 U	5 U
FLUORANTHENE	5 U	5 U	5 U
FLUORENE	5 U	5 U	5 U
HEXACHLOROBENZENE	5 U	5 U	5 U
HEXACHLOROBUTADIENE	5 U	5 U	5 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW1080004	4GW1090004	4GW1100004
LOCATION:	04GW108	04GW109	04GW110
SAMPLE DATE:	11/08/99	11/10/99	11/04/99
ASSOCIATED DUPLICATE:			
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5 U	5 U	5 U
HEXACHLOROETHANE	5 U	5 U	5 U
INDENO(1,2,3-CD)PYRENE	5 U	5 U	5 U
ISOPHORONE	5 U	5 U	5 U
N-NITROSO-DI-N-PROPYLAMINE	5 U	5 U	5 U
N-NITROSODIPHENYLAMINE	5 U	5 U	5 U
NAPHTHALENE	5 U	5 U	5 U
NITROBENZENE	5 U	5 U	5 U
PENTACHLOROPHENOL	20 U	20 U	20 U
PHENANTHRENE	5 U	5 U	5 U
PHENOL	5 U	5 U	5 U
PYRENE	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)			
4,4'-DDD	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U
ALDRIN	0.050 U	0.050 U	0.050 U
ALPHA-BHC	0.050 U	0.050 U	0.050 U
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U
AROCLOR-1016	1.0 U	1.0 U	1.0 U
AROCLOR-1221	2.0 U	2.0 U	2.0 U
AROCLOR-1232	1.0 U	1.0 U	1.0 U
AROCLOR-1242	1.0 U	1.0 U	1.0 U
AROCLOR-1248	1.0 U	1.0 U	1.0 U
AROCLOR-1254	1.0 U	1.0 U	1.0 U
AROCLOR-1260	1.0 U	1.0 U	1.0 U
BETA-BHC	0.050 U	0.050 U	0.050 U
DELTA-BHC	0.050 U	0.050 U	0.050 U
DIELDRIN	0.10 U	0.10 U	0.10 U
ENDOSULFAN I	0.050 U	0.050 U	0.050 U
ENDOSULFAN II	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	0.10 U	0.10 U	0.10 U
ENDRIN	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	0.10 U	0.10 U	0.10 U
ENDRIN KETONE	0.10 U	0.10 U	0.10 U
GAMMA-BHC (LINDANE)	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U
HEPTACHLOR	0.050 U	0.050 U	0.050 U
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U
METHOXYCHLOR	0.50 U	0.50 U	0.50 U
TOXAPHENE	5.0 U	5.0 U	5.0 U
EXPLOSIVES (µg/L)			
1,3,5-TRINITROBENZENE	0.2 U	0.2 U	0.2 U
1,3-DINITROBENZENE	0.2 U	0.2 U	0.2 U
2,4,6-TRINITROTOLUENE	0.2 U	0.2 U	0.2 U

SITE 4
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - NOVEMBER 1999

SAMPLE I.D.:	4GW1080004	4GW1090004	4GW1100004
LOCATION:	04GW108	04GW109	04GW110
SAMPLE DATE:	11/08/99	11/10/99	11/04/99
ASSOCIATED DUPLICATE:			
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	0.2 U	0.2 U	0.2 U
2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U
2-NITROTOLUENE	0.2 U	0.2 U	0.2 U
3-NITROTOLUENE	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U
4-NITROTOLUENE	0.2 U	0.2 U	0.2 U
HMX	0.5 U	0.5 U	6.1
NITROBENZENE	0.2 U	0.2 U	0.2 U
RDX	0.5 U	0.5 U	2.1
TETRYL	0.2 U	0.2 U	0.2 U
INORGANICS (µg/L)			
ALUMINUM	339 B	533	167 B
ANTIMONY	1.4 U	1.4 U	1.4 U
ARSENIC	2.9 U	2.9 U	2.9 U
BARIUM	195	32.5	74.4
BERYLLIUM	0.27 B	0.10 U	0.10 U
CADMIUM	3.2 UL	3.2 UL	3.2 UL
CALCIUM	7140	2350	8810
CHROMIUM	2.3 U	4.0	2.3 U
COBALT	17.0	11.3	97.8
COPPER	4.8 B	2.1	6.9
CYANIDE	1.5 B	1.2 U	1.9 B
IRON	292	16000	2770
LEAD	1.6 U	1.6 U	1.6 U
MAGNESIUM	12600	1710	8140
MANGANESE	171	743	1380
MERCURY	0.07 U	0.07 UL	0.07 U
NICKEL	22.1	8.4	81.0
POTASSIUM	3180	1960	6640
SELENIUM	3.0 U	3.0 U	3.6 K
SILVER	2.2 U	2.2 U	2.2 U
SODIUM	38900	14500	48700
THALLIUM	5.3 B	3.8 U	3.8 U
VANADIUM	2.9 U	2.9 U	2.9 U
ZINC	16.9 B	9.9 B	32.7 B
PETROLEUM HYDROCARBONS			
TOTAL PETROLEUM HYDROCARBONS MG/L	1.0 U	1.0 U	1.0 U
TPH-DIESEL UG/L	100 U	100 UJ	100 U
MISCELLANEOUS PARAMETERS			
AMMONIA MG/L	0.1	0.2 U	0.1
PERCHLORATE UG/L	16 U	4 U	10 U

SECTION F-4

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER ROUND 4 DATA, OCTOBER 1999

SITE 7

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	7GW080004	7GW410004	7GW420004	7GW430004	7GW1010004	7GW1020004	7GW1030004	7GW1030004-D
LOCATION:	07GW08	07GW41	07PZ42	07GW43	07GW101	07GW102	07GW103	07GW103
SAMPLE DATE:	10/07/99	10/06/99	10/07/99	10/07/99	10/07/99	10/06/99	10/06/99	10/06/99
ASSOCIATED DUPLICATE:							7GW1030004-D	7GW1030004
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	9.5 J	1 U	50 U	1 U	15	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 UR	10 UR	1 UR	50 UR	1 UR	10 UR	1 UR	1 UR
1,2-DIBROMOETHANE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
1,2-DICHLOROBENZENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
2-BUTANONE	5 UR	50 UR	5 UR	250 UR	5 UR	50 UR	5 UR	5 UR
2-HEXANONE	5 U	50 U	5 U	250 U	5 U	50 U	5 U	5 U
4-METHYL-2-PENTANONE	5 UJ	50 U	5 U	250 U	5 U	50 U	5 U	5 U
ACETONE	5 UR	50 UR	1.8 B	250 UR	5 UR	50 UR	5 UR	5 UR
BENZENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
BROMOCHLOROMETHANE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
BROMOFORM	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
BROMOMETHANE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
CARBON DISULFIDE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
CHLOROBENZENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
CHLOROETHANE	1 U	10 UJ	1 U	50 U	1 UJ	10 UJ	1 UJ	1 UJ
CHLOROFORM	0.27 B	10 U	0.69 J	50 U	0.3 B	10 U	21	20
CHLOROMETHANE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	9.3 J	1 U	19 J	1 U	17	1 U	1 U
CIS-1,3-DICHLOROPROPENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
DIBROMOCHLOROMETHANE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
ETHYLBENZENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
METHYLENE CHLORIDE	2 U	20 U	2 U	100 U	2 U	20 U	2 U	2 U
STYRENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
TETRACHLOROETHENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
TOLUENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
TRICHLOROETHENE	1 U	85	1 U	390	1 U	150	0.12 J	0.18 J
VINYL CHLORIDE	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
XYLENES, TOTAL	1 U	10 U	1 U	50 U	1 U	10 U	1 U	1 U
SEMIVOLATILES (µg/L)								
2,2'-OXYBIS(1-CHLOROPROPANE)	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-TRICHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	7GW080004	7GW410004	7GW420004	7GW430004	7GW1010004	7GW1020004	7GW1030004	7GW1030004-D
LOCATION:	07GW08	07GW41	07PZ42	07GW43	07GW101	07GW102	07GW103	07GW103
SAMPLE DATE:	10/07/99	10/06/99	10/07/99	10/07/99	10/07/99	10/06/99	10/06/99	10/06/99
ASSOCIATED DUPLICATE:							7GW1030004-D	7GW1030004
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-DICHLOROPHENOL	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-DIMETHYLPHENOL	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-DINITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-DINITROTOLUENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
2,6-DINITROTOLUENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
2-CHLORONAPHTHALENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
2-CHLOROPHENOL	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
2-METHYLNAPHTHALENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
2-METHYLPHENOL	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
2-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-NITROPHENOL	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
3,3'-DICHLOROBENZIDINE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
3-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
4-CHLORO-3-METHYLPHENOL	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
4-CHLOROANILINE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
4-CHLOROPHENYL PHENYL ETHER	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
4-METHYLPHENOL	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
4-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-NITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ACENAPHTHENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
ACENAPHTHYLENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
ANTHRACENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZO(A)ANTHRACENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZO(A)PYRENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZO(B)FLUORANTHENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZO(G,H,I)PERYLENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
BENZO(K)FLUORANTHENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
BIS(2-CHLOROETHOXY)METHANE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
BIS(2-CHLOROETHYL)ETHER	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
BIS(2-ETHYLHEXYL)PHTHALATE	5.0 U	1.0 B	5 U	5 U	5.0 U	1.0 B	1.0 B	5.0 U
BUTYLBENZYL PHTHALATE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
CHRYSENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
DI-N-BUTYL PHTHALATE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
DI-N-OCTYL PHTHALATE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
DIBENZO(A,H)ANTHRACENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
DIBENZOFURAN	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
DIETHYL PHTHALATE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
DIMETHYL PHTHALATE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
FLUORANTHENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
FLUORENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
HEXACHLOROBENZENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
HEXACHLOROBUTADIENE	5.0 U	5.0 U	[illegible]	5 U	5.0 U	5.0 U	5.0 U	[illegible] U

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	7GW080004	7GW410004	7GW420004	7GW430004	7GW1010004	7GW1020004	7GW1030004	7GW1030004-D
LOCATION:	07GW08	07GW41	07PZ42	07GW43	07GW101	07GW102	07GW103	07GW103
SAMPLE DATE:	10/07/99	10/06/99	10/07/99	10/07/99	10/07/99	10/06/99	10/06/99	10/06/99
ASSOCIATED DUPLICATE:							7GW1030004-D	7GW1030004
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
HEXACHLOROETHANE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
INDENO(1,2,3-CD)PYRENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
ISOPHORONE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
N-NITROSO-DI-N-PROPYLAMINE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
N-NITROSODIPHENYLAMINE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
NAPHTHALENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
NITROBENZENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
PENTACHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
PHENANTHRENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
PHENOL	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
PYRENE	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
PESTICIDES/PCBs (µg/L)								
4,4'-DDD	0.10 UR	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 UR	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.062 R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ALDRIN	0.050 UR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-BHC	0.050 UR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-CHLORDANE	0.050 UR	0.050 U	0.050 U	0.050 U	0.038 J	0.050 U	0.050 U	0.050 U
AROCLOR-1016	1.0 UR	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1221	2.0 UR	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
AROCLOR-1232	1.0 UR	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1242	1.0 UR	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1248	1.0 UR	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1254	1.0 UR	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1260	1.0 UR	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BETA-BHC	0.050 UR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DELTA-BHC	0.050 UR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DIELDRIN	0.10 UR	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN I	0.050 UR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ENDOSULFAN II	0.078 R	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	0.10 UR	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN	0.10 UR	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	0.10 UR	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN KETONE	0.10 UR	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
GAMMA-BHC (LINDANE)	0.050 UR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 UR	0.050 U	0.050 U	0.050 U	0.038 J	0.050 U	0.050 U	0.050 U
HEPTACHLOR	0.050 UR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR EPOXIDE	0.050 UR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
METHOXYCHLOR	0.50 UR	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
TOXAPHENE	5.0 UR	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
EXPLOSIVES (µg/L)								
1,3,5-TRINITROBENZENE	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-DINITROBENZENE	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,6-TRINITROTOLUENE	180	0.2 U	0.2 U	0.2 U	0.22	0.2 U	0.34	0.37

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	7GW080004	7GW410004	7GW420004	7GW430004	7GW1010004	7GW1020004	7GW1030004	7GW1030004-D
LOCATION:	07GW08	07GW41	07PZ42	07GW43	07GW101	07GW102	07GW103	07GW103
SAMPLE DATE:	10/07/99	10/06/99	10/07/99	10/07/99	10/07/99	10/06/99	10/06/99	10/06/99
ASSOCIATED DUPLICATE:							7GW1030004-D	7GW1030004
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,6-DINITROTOLUENE	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	64	0.2 U	0.2 U	0.2 U	0.39	0.2 U	0.2 U	0.2 U
2-NITROTOLUENE	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
3-NITROTOLUENE	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	100	0.2 U	0.2 U	0.2 U	0.37	0.2 U	0.23	0.22
4-NITROTOLUENE	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	170	0.5 U	0.5 U	0.5 U	2.7	0.5 U	0.65	0.68
NITROBENZENE	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
RDX	440	0.5 U	0.5 U	0.5 U	4.9	0.5 U	0.5 U	0.5 U
TETRYL	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
INORGANICS (µg/L)								
ALUMINUM	1290	422 B	663 B	1810 K	273 B	659	457 B	683
ANTIMONY	5.8 UL	5.8 UL	5.7 UJ	5.7 UJ	5.8 UL	5.8 UL	5.8 UL	5.8 UL
ARSENIC	3.3 U	3.3 U	3.3 UL	3.3 UL	3.3 U	3.3 U	3.3 U	3.3 U
BARIUM	37.6	50.8	74.4	44.6	47.7	62.2	40.5	42.1
BERYLLIUM	0.30 U	0.30 U	0.26 U	0.26 U	0.30 U	0.30 U	0.30 U	0.30 U
CADMIUM	0.50 U	0.50 U	0.49 U	0.49 U	0.50 U	0.50 U	0.50 U	0.50 U
CALCIUM	3950	14300	11700	4980	4900	10700	10600	11000
CHROMIUM	51.0	6.0	12.0 L	12.4 L	3.3	15.5	8.4	4.3
COBALT	1.9	2.1	5	6.0	1.3	8.7	3.9	3.5
COPPER	1.3 U	1.3 U	1.3 U	3.2	1.3 U	3.5	1.3 U	1.3 U
CYANIDE	10.0 U	10.0 U	3.0 U	3.0 U	10.0 U	10.0 U	10.0 U	10.0 U
IRON	704	601	769	4640	200 K	615	213	104 K
LEAD	1.7 U	1.7 U	1.7 UL	1.7 UL	1.7 U	1.7 U	1.7 U	1.7 U
MAGNESIUM	3810	9410	10400	5870	5030	8930	3970	4130
MANGANESE	19.8	104	145	77.2	24.7	111	13.8	14.0
MERCURY	0.09	1.1	4.0	0.26	0.07	1.0	0.07	0.07
NICKEL	38.2	5.8	9.5	9.5	6.2	13.2	7.0	3.7
POTASSIUM	1490	1600	1740	1670	1510	1520	1120	1200
SELENIUM	3.8 U	3.8 U	3.8 UL	3.8 UL	3.8 U	4.0 K	3.8 U	3.8 U
SILVER	1.9 U	1.9 U	1.9 UJ	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 U
SODIUM	3450	10700	11700	12400	4800	10500	6450	6470
THALLIUM	4.3 UL	4.3 UL	4.3 UJ	4.3 UJ	4.4 B	4.3 UL	4.3 UL	4.3 UL
VANADIUM	6.5	1.4 U	1.8	6.7	1.4 U	2.6	1.4	1.4 U
ZINC	10.8 B	15.4 B	1.9 U	1.9 K	11.2 B	14.2 B	10.8 B	20.3 K
PETROLEUM HYDROCARBONS								
TOTAL PETROLEUM HYDROCARBONS MG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TPH-DIESEL UG/L	330	100 U	210	100 U	100 U	140	100 U	100 U
MISCELLANEOUS PARAMETERS								
AMMONIA MG/L	0.3 K	0.2 U	0.2 K	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
PERCHLORATE UG/L	12 J	8 U	8 U	8 U	8 U	8 U	8 U	29 J

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	7GW1040004	7GW1050004
LOCATION:	07GW104	07GW105
SAMPLE DATE:	10/20/99	10/07/99
ASSOCIATED DUPLICATE:		
VALIDATION STATUS:	VALIDATED	VALIDATED
VOLATILES (µg/L)		
1,1,1-TRICHLOROETHANE	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 UR	1 UR
1,2-DIBROMOETHANE	1 U	1 U
1,2-DICHLOROBENZENE	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U
1,4-DICHLOROBENZENE	1 U	0.11 J
2-BUTANONE	5 UR	5 UR
2-HEXANONE	5 U	5 U
4-METHYL-2-PENTANONE	5 U	5 UJ
ACETONE	5 UR	5 UR
BENZENE	1 U	1 U
BROMOCHLOROMETHANE	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U
BROMOFORM	1 U	1 U
BROMOMETHANE	1 U	1 U
CARBON DISULFIDE	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U
CHLOROBENZENE	1 U	1 U
CHLOROETHANE	1 UJ	1 U
CHLOROFORM	0.62 B	0.33 B
CHLOROMETHANE	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U
CIS-1,3-DICHLOROPROPENE	1 U	1 U
DIBROMOCHLOROMETHANE	1 U	1 U
ETHYLBENZENE	1 U	1 U
METHYLENE CHLORIDE	2 U	2 U
STYRENE	1 U	1 U
TETRACHLOROETHENE	1 U	1 U
TOLUENE	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	1 U
TRICHLOROETHENE	0.11 J	1 U
VINYL CHLORIDE	1 U	1 U
XYLENES, TOTAL	1 U	1 U
SEMIVOLATILES (µg/L)		
2,2'-OXYBIS(1-CHLOROPROPANE)	5.0 U	5.0 U
2,4,5-TRICHLOROPHENOL	20 U	20 U

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	7GW1040004	7GW1050004
LOCATION:	07GW104	07GW105
SAMPLE DATE:	10/20/99	10/07/99
ASSOCIATED DUPLICATE:		
VALIDATION STATUS:	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5.0 U	5.0 U
2,4-DICHLOROPHENOL	5.0 U	5.0 U
2,4-DIMETHYLPHENOL	5.0 U	5.0 U
2,4-DINITROPHENOL	20 U	20 U
2,4-DINITROTOLUENE	5.0 U	2 U
2,6-DINITROTOLUENE	5.0 U	2 U
2-CHLORONAPHTHALENE	5.0 U	5.0 U
2-CHLOROPHENOL	5.0 U	5.0 U
2-METHYLNAPHTHALENE	5.0 U	5.0 U
2-METHYLPHENOL	5.0 U	5.0 U
2-NITROANILINE	20 U	20 U
2-NITROPHENOL	5.0 U	5.0 U
3,3'-DICHLOROBENZIDINE	5.0 U	5.0 U
3-NITROANILINE	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5.0 U	5.0 U
4-CHLORO-3-METHYLPHENOL	5.0 U	5.0 U
4-CHLOROANILINE	5.0 U	5.0 U
4-CHLOROPHENYL PHENYL ETHER	5.0 U	5.0 U
4-METHYLPHENOL	5.0 U	5.0 U
4-NITROANILINE	20 U	20 U
4-NITROPHENOL	20 U	20 U
ACENAPHTHENE	5.0 U	5.0 U
ACENAPHTHYLENE	5.0 U	5.0 U
ANTHRACENE	5.0 U	5.0 U
BENZO(A)ANTHRACENE	5.0 U	5.0 U
BENZO(A)PYRENE	5.0 U	5.0 U
BENZO(B)FLUORANTHENE	5.0 U	5.0 U
BENZO(G,H,I)PERYLENE	5.0 U	5.0 U
BENZO(K)FLUORANTHENE	5.0 U	5.0 U
BIS(2-CHLOROETHOXY)METHANE	5.0 U	5.0 U
BIS(2-CHLOROETHYL)ETHER	5.0 U	5.0 U
BIS(2-ETHYLHEXYL)PHTHALATE	5.0 U	2.0 B
BUTYLBENZYL PHTHALATE	5.0 U	5.0 U
CHRYSENE	5.0 U	5.0 U
DI-N-BUTYL PHTHALATE	5.0 U	5.0 U
DI-N-OCTYL PHTHALATE	5.0 U	5.0 U
DIBENZO(A,H)ANTHRACENE	5.0 U	5.0 U
DIBENZOFURAN	5.0 U	5.0 U
DIETHYL PHTHALATE	5.0 U	5.0 U
DIMETHYL PHTHALATE	5.0 U	5.0 U
FLUORANTHENE	5.0 U	5.0 U
FLUORENE	5.0 U	5.0 U
HEXACHLOROBENZENE	5.0 U	5.0 U
HEXACHLOROBUTADIENE	5.0 U	5.0 U

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	7GW1040004	7GW1050004
LOCATION:	07GW104	07GW105
SAMPLE DATE:	10/20/99	10/07/99
ASSOCIATED DUPLICATE:		
VALIDATION STATUS:	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5.0 U	5.0 U
HEXACHLOROETHANE	5.0 U	5.0 U
INDENO(1,2,3-CD)PYRENE	5.0 U	5.0 U
ISOPHORONE	5.0 U	5.0 U
N-NITROSO-DI-N-PROPYLAMINE	5.0 U	5.0 U
N-NITROSODIPHENYLAMINE	5.0 U	5.0 U
NAPHTHALENE	5.0 U	5.0 U
NITROBENZENE	5.0 U	2 U
PENTACHLOROPHENOL	20 U	20 U
PHENANTHRENE	5.0 U	5.0 U
PHENOL	5.0 U	5.0 U
PYRENE	5.0 U	5.0 U
PESTICIDES/PCBs (µg/L)		
4,4'-DDD	0.19 UR	0.10 U
4,4'-DDE	0.19 UR	0.10 U
4,4'-DDT	0.13 R	0.10 U
ALDRIN	0.094 UR	0.050 U
ALPHA-BHC	0.094 UR	0.050 U
ALPHA-CHLORDANE	0.094 UR	0.045 J
AROCLOR-1016	1.9 UR	1.0 U
AROCLOR-1221	3.8 UR	2.0 U
AROCLOR-1232	1.9 UR	1.0 U
AROCLOR-1242	1.9 UR	1.0 U
AROCLOR-1248	1.9 UR	1.0 U
AROCLOR-1254	1.9 UR	1.0 U
AROCLOR-1260	1.9 UR	1.0 U
BETA-BHC	0.094 UR	0.050 U
DELTA-BHC	0.094 UR	0.050 U
DIELDRIN	0.19 UR	0.10 U
ENDOSULFAN I	0.094 UR	0.050 U
ENDOSULFAN II	0.19 UR	0.10 U
ENDOSULFAN SULFATE	0.19 UR	0.10 U
ENDRIN	0.19 UR	0.10 U
ENDRIN ALDEHYDE	0.19 UR	0.10 U
ENDRIN KETONE	0.19 UR	0.10 U
GAMMA-BHC (LINDANE)	0.094 UR	0.050 U
GAMMA-CHLORDANE	0.094 UR	0.052
HEPTACHLOR	0.094 UR	0.050 U
HEPTACHLOR EPOXIDE	0.094 UR	0.050 U
METHOXYCHLOR	0.94 UR	0.50 U
TOXAPHENE	9.4 UR	5.0 U
EXPLOSIVES (µg/L)		
1,3,5-TRINITROBENZENE	20 U	2 U
1,3-DINITROBENZENE	20 U	2 U
2,4,6-TRINITROTOLUENE	410	7.1

SITE 7
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	7GW1040004	7GW1050004
LOCATION:	07GW104	07GW105
SAMPLE DATE:	10/20/99	10/07/99
ASSOCIATED DUPLICATE:		
VALIDATION STATUS:	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	20 U	2 U
2,6-DINITROTOLUENE	20 U	2 U
2-AMINO-4,6-DINITROTOLUENE	120	4.3
2-NITROTOLUENE	20 U	2 U
3-NITROTOLUENE	20 U	2 U
4-AMINO-2,6-DINITROTOLUENE	210	4.4
4-NITROTOLUENE	20 U	2 U
HMX	170	10
NITROBENZENE	20 U	2 U
RDX	770	50
TETRYL	20 U	2 U
INORGANICS (µg/L)		
ALUMINUM	712	112 B
ANTIMONY	5.8 UL	5.8 UL
ARSENIC	3.3 U	3.3 U
BARIUM	22.6	42.7
BERYLLIUM	0.30 U	0.30 U
CADMIUM	0.50 U	0.50 U
CALCIUM	3610	4610
CHROMIUM	1.2 U	5.0
COBALT	1.2	1.2 U
COPPER	7.2	1.3 U
CYANIDE	10.0 U	10.0 U
IRON	98.9 K	58.5 K
LEAD	1.7 U	1.7 U
MAGNESIUM	2550	5110
MANGANESE	13.0	22.0
MERCURY	0.09	0.05 U
NICKEL	1.8 U	5.4
POTASSIUM	1420	1560
SELENIUM	3.8 U	3.8 U
SILVER	1.9 U	1.9 U
SODIUM	2410	4840
THALLIUM	4.3 UL	4.3 UL
VANADIUM	1.4 U	1.4 U
ZINC	12.0 B	11.3 B
PETROLEUM HYDROCARBONS		
TOTAL PETROLEUM HYDROCARBONS MG/L	1 U	1 U
TPH-DIESEL UG/L	410 J	100 U
MISCELLANEOUS PARAMETERS		
AMMONIA MG/L	0.3 K	0.2 U
PERCHLORATE UG/L	4 U	9 J

SECTION F-5

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER ROUND 4 DATA, OCTOBER 1999

SITE 8

SITE 8
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	8GW330004	8GW340004	8GW350004	8GW360004	8GW530004	8GWB10004	8GWB30004
LOCATION:	08GW33	08GW34	08GW35	08GW36	08GW53	B-1	B-3
SAMPLE DATE:	10/06/99	10/05/99	10/05/99	10/05/99	10/07/99	10/05/99	10/06/99
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	2.6	1 U	0.66 J	1 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 UR	1 UR	1 UR	1 UR	1 UR	1 UR	1 UR
1,2-DIBROMOETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-BUTANONE	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR
2-HEXANONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYL-2-PENTANONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACETONE	5 UR	3.4 B	3.3 B	4.5 B	11 B	1.9 B	5 UR
BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	1 U	1 U	1 U	1 U	1 U	1 U	3.1
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	0.26 J	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
CHLOROFORM	4.1	0.66 B	17	0.5 B	5	4.6	1.6
CHLOROMETHANE	1 U	0.17 B	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
DIBROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	2 U	2 U	2 U
STYRENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	1 U	1 U	1 U	1 U	1 U	0.14 B	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VINYL CHLORIDE	1 U	1 U	1 U	0.53 J	1 U	1 U	1 U
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	0.17 J	1 U
SEMIVOLATILES (µg/L)							
2,2'-OXYBIS(1-CHLOROPROPANE)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
2,4,5-TRICHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	N/A

SITE 8
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	8GW330004	8GW340004	8GW350004	8GW360004	8GW530004	8GWB10004	8GWB30004
LOCATION:	08GW33	08GW34	08GW35	08GW36	08GW53	B-1	B-3
SAMPLE DATE:	10/06/99	10/05/99	10/05/99	10/05/99	10/07/99	10/05/99	10/06/99
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
2,4-DICHLOROPHENOL	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
2,4-DIMETHYLPHENOL	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
2,4-DINITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	N/A
2,4-DINITROTOLUENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
2,6-DINITROTOLUENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
2-CHLORONAPHTHALENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
2-CHLOROPHENOL	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
2-METHYLNAPHTHALENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
2-METHYLPHENOL	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
2-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	N/A
2-NITROPHENOL	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
3,3'-DICHLOROBENZIDINE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
3-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	N/A
4,6-DINITRO-2-METHYLPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	N/A
4-BROMOPHENYL PHENYL ETHER	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
4-CHLORO-3-METHYLPHENOL	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
4-CHLOROANILINE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
4-CHLOROPHENYL PHENYL ETHER	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
4-METHYLPHENOL	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
4-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	N/A
4-NITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	N/A
ACENAPHTHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
ACENAPHTHYLENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
ANTHRACENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
BENZO(A)ANTHRACENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
BENZO(A)PYRENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
BENZO(B)FLUORANTHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
BENZO(G,H,I)PERYLENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
BENZO(K)FLUORANTHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
BIS(2-CHLOROETHOXY)METHANE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
BIS(2-CHLOROETHYL)ETHER	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
BIS(2-ETHYLHEXYL)PHTHALATE	1.0 B	5.0 U	5.0 U	1.0 B	2.0 B	2.0 B	N/A
BUTYLBENZYL PHTHALATE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
CHRYSENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
DI-N-BUTYL PHTHALATE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
DI-N-OCTYL PHTHALATE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
DIBENZO(A,H)ANTHRACENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
DIBENZOFURAN	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
DIETHYL PHTHALATE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
DIMETHYL PHTHALATE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
FLUORANTHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
FLUORENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
HEXACHLOROBENZENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
HEXACHLOROBUTADIENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A

SITE 8
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	8GW330004	8GW340004	8GW350004	8GW360004	8GW530004	8GWB10004	8GWB30004
LOCATION:	08GW33	08GW34	08GW35	08GW36	08GW53	B-1	B-3
SAMPLE DATE:	10/06/99	10/05/99	10/05/99	10/05/99	10/07/99	10/05/99	10/06/99
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
HEXACHLOROETHANE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
INDENO(1,2,3-CD)PYRENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
ISOPHORONE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
N-NITROSO-DI-N-PROPYLAMINE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
N-NITROSODIPHENYLAMINE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
NAPHTHALENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
NITROBENZENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
PENTACHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	N/A
PHENANTHRENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
PHENOL	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
PYRENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
PESTICIDES/PCBs (µg/L)							
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	N/A
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	N/A
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	N/A
ALDRIN	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	N/A
ALPHA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	N/A
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	N/A
AROCLOR-1016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	N/A
AROCLOR-1221	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	N/A
AROCLOR-1232	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	N/A
AROCLOR-1242	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	N/A
AROCLOR-1248	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	N/A
AROCLOR-1254	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	N/A
AROCLOR-1260	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	N/A
BETA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	N/A
DELTA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	N/A
DIELDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	N/A
ENDOSULFAN I	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	N/A
ENDOSULFAN II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	N/A
ENDOSULFAN SULFATE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	N/A
ENDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	N/A
ENDRIN ALDEHYDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	N/A
ENDRIN KETONE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	N/A
GAMMA-BHC (LINDANE)	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	N/A
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	N/A
HEPTACHLOR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	N/A
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	N/A
METHOXYCHLOR	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	N/A
TOXAPHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	N/A
EXPLOSIVES (µg/L)							
1,3,5-TRINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A
1,3-DINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A
2,4,6-TRINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A

SITE 8
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER 1999

SAMPLE I.D.:	8GW330004	8GW340004	8GW350004	8GW360004	8GW530004	8GWB10004	8GWB30004
LOCATION:	08GW33	08GW34	08GW35	08GW36	08GW53	B-1	B-3
SAMPLE DATE:	10/06/99	10/05/99	10/05/99	10/05/99	10/07/99	10/05/99	10/06/99
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A
2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A
2-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A
3-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A
4-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A
HMX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	N/A
NITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A
RDX	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	N/A
TETRYL	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A
INORGANICS (µg/L)							
ALUMINUM	16200	588	22900	45100	2230	1890	N/A
ANTIMONY	5.8 UL	5.8 UL	5.8 UL	5.8 UL	5.8 UL	5.8 UL	N/A
ARSENIC	3.3 U	3.3 U	3.4	11.6	3.3 U	3.3 U	N/A
BARIUM	132	18.9	239	533	14.5	39.9	N/A
BERYLLIUM	2.0 B	0.34 B	2.8 B	6.2	0.26 U	0.30 U	N/A
CADMIUM	0.50 U	0.50 U	50.0 U	2.0	0.97	0.50 U	N/A
CALCIUM	4470	1890	5780	12800	1960	6350	N/A
CHROMIUM	21.4	7.4	31.3	99.4	3.8	5.6	N/A
COBALT	15.3	1.2	22.5	42.4	2.0	7.6	N/A
COPPER	25.0	1.3 U	32.4	66.3	3.1	3.2	N/A
CYANIDE	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	N/A
IRON	33700	724	36300	82900	1640	3050	N/A
LEAD	7.6	1.7 U	9.2	23.9	1.7 U	1.7 U	N/A
MAGNESIUM	5840	1460	8350	18700	1110	3500	N/A
MANGANESE	693	38.4	556	1370	126	953	N/A
MERCURY	0.39	0.07	0.09	0.13	0.07	0.05 U	N/A
NICKEL	27.4	6.8	39.6	98.1	6.4	11.6	N/A
POTASSIUM	7530	1400	10600	23800	1080	7700	N/A
SELENIUM	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	N/A
SILVER	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	N/A
SODIUM	3800	3920	6960	8430	3030	7990	N/A
THALLIUM	4.3 UL	4.3 UL	4.3 UL	4.3 UL	4.3 UL	4.3 UL	N/A
VANADIUM	31.4	1.4 U	46.8	97.0	1.5	3.9	N/A
ZINC	91.8	15.3 B	117	276	67.3	65.7	N/A
PETROLEUM HYDROCARBONS							
TOTAL PETROLEUM HYDROCARBONS MG/L	1 U	1 U	1 U	1 U	1 U	1 U	N/A
TPH-DIESEL UG/L	100 U	100 U	100 U	100 U	100 U	100 U	N/A
MISCELLANEOUS PARAMETERS							
AMMONIA MG/L	0.2 K	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	N/A
PERCHLORATE UG/L	4 U	4 U	4 U	8 U	4 U	8 U	N/A

SECTION F-6

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER ROUND 4 DATA, OCTOBER 1999

SITE 9

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW010004	9GW020004	9GW030004	9GW040004	9GW050004	9GW060004	9GW060004-D	9GW070004
LOCATION	09GW01	09GW02	09GW03	09GW04	09GW05	09GW06	09GW06	09GW07
SAMPLE DATE:	10/28/99	10/28/99	10/28/99	10/27/99	10/28/99	10/27/99	10/27/99	10/26/99
ASSOCIATED DUPLICATE:						9GW060004-D	9GW060004	
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 UR	1 UR	1 UR	1 UR	1 UR	1 UR	1 UR	1 UR
1,2-DIBROMOETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-BUTANONE	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR
2-HEXANONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYL-2-PENTANONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACETONE	5 UR	5 UR	2.2 B	5 UR	5 UR	5 UR	5 UR	5 UR
BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	0.77 J	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROFORM	4.1	0.99 J	0.79 J	3.8	3.1	0.77 J	0.92 J	6.1
CHLOROMETHANE	1 U	0.14 J	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	0.50 J	0.54 J	0.18 J	1 U	0.16 J	1 U	1 U	1 U
CIS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
DIBROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
STYRENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	0.27 J	5.6	0.40 J	1 U	0.14 J	1 U	1 U	1 U
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	16	10	0.78 J	1 U	2.6	0.26 J	0.33 J	0.11 J
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SEMIVOLATILES (µg/L)								
2,2'-OXYBIS(1-CHLOROPROPANE)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-TRICHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW010004	9GW020004	9GW030004	9GW040004	9GW050004	9GW060004	9GW060004-D	9GW070004
LOCATION	09GW01	09GW02	09GW03	09GW04	09GW05	09GW06	09GW06	09GW07
SAMPLE DATE:	10/28/99	10/28/99	10/28/99	10/27/99	10/28/99	10/27/99	10/27/99	10/26/99
ASSOCIATED DUPLICATE:						9GW060004-D	9GW060004	
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DIMETHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DINITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,6-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLORONAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-NITROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3,3'-DICHLOROBENZIDINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLORO-3-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROANILINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-NITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ACENAPHTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACENAPHTHYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(B)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(G,H,I)PERYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(K)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHOXY)METHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHYL)ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	1.1 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BUTYLBENZYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHRYSENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DI-N-OCTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZOFURAN	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIMETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
FLUORENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEXACHL[illegible]BENZENE	5 U	5 U	[illegible]	5 U	5 U	5 U	5 U	[illegible] U
HEXACHL[illegible]BUTADIENE	5 U	5 U	[illegible]	5 U	5 U	5 U	5 U	[illegible] U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW010004	9GW020004	9GW030004	9GW040004	9GW050004	9GW060004	9GW060004-D	9GW070004
LOCATION	09GW01	09GW02	09GW03	09GW04	09GW05	09GW06	09GW06	09GW07
SAMPLE DATE:	10/28/99	10/28/99	10/28/99	10/27/99	10/28/99	10/27/99	10/27/99	10/26/99
ASSOCIATED DUPLICATE:						9GW060004-D	9GW060004	
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEXACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
INDENO(1,2,3-CD)PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ISOPHORONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-NITROSO-DI-N-PROPYLAMINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-NITROSODIPHENYLAMINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NITROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PENTACHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
PHENANTHRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)								
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ALDRIN	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-CHLORDANE	0.26	0.050 U	0.050 U	0.050 U	0.043 J	0.059	0.060	0.050 U
AROCLOR-1016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1221	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
AROCLOR-1232	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1242	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1248	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1254	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1260	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BETA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DELTA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DIELDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN I	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ENDOSULFAN II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN KETONE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
GAMMA-BHC (LINDANE)	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.21	0.050 U	0.050 U	0.050 U	0.026 J	0.035 J	0.035 J	0.050 U
HEPTACHLOR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
METHOXYCHLOR	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
TOXAPHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
EXPLOSIVES (µg/L)								
1,3,5-TRINITROBENZENE	4.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-DINITROBENZENE	4.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,6-TRINITROTOLUENE	4.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW010004	9GW020004	9GW030004	9GW040004	9GW050004	9GW060004	9GW060004-D	9GW070004
LOCATION	09GW01	09GW02	09GW03	09GW04	09GW05	09GW06	09GW06	09GW07
SAMPLE DATE:	10/28/99	10/28/99	10/28/99	10/27/99	10/28/99	10/27/99	10/27/99	10/26/99
ASSOCIATED DUPLICATE:						9GW060004-D	9GW060004	
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	4.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,6-DINITROTOLUENE	4.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	4.0 U	0.2 U	0.2 U	0.23	0.2 U	0.2 U	0.2 U	0.2 U
2-NITROTOLUENE	4.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
3-NITROTOLUENE	4.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	4.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-NITROTOLUENE	4.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	12	0.5 U	0.5 U	4.0	0.5 U	0.5 U	0.5 U	0.5 U
NITROBENZENE	4.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
RDX	150	0.5	0.50 U	6.9	0.5 U	0.5 U	0.5 U	0.5 U
TETRYL	4.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
INORGANICS (µg/L)								
ALUMINUM	101	796	69.2 B	96.5	217	444	515	3370
ANTIMONY	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ARSENIC	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
BARIUM	17.1	107	42.2	39.3	95.4	111	114	95.8
BERYLLIUM	0.10 U	1.0 B	0.13 B	0.10 U	0.14 B	0.18 B	0.24 B	0.29 B
CADMIUM	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 UL
CALCIUM	3430	8590	2090	2820	3750	3960	4110	5310
CHROMIUM	2.3 U	6.7	4.5	7.4	19.3	21.2	9.8	15.9
COBALT	2.6 U	6.1	12.1	2.6 U	7.0	9.8	7.8	5.6
COPPER	6.1 B	9.7 B	8.3 B	6.0 B	8.0 B	10.6	10.3	14.3 L
CYANIDE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
IRON	143 J	9490 J	287 J	436 J	1060 J	1560 J	2290 J	12300
LEAD	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	2.4
MAGNESIUM	1640	7340	2740	3810	6830	6800	7230	5850
MANGANESE	15.4	568	43.5	34.2	163	212	197	122
MERCURY	0.07 U	0.07 U	0.07 U	0.25	0.36	0.08	0.10	0.18
NICKEL	9.0	27.5	14.2	8.5	27.3	27.7	21.2	13.0
POTASSIUM	1590	4840	1530	1520	2310	2990	2930	2560
SELENIUM	2.4 UL	2.4 UL	2.4 UL	2.4 UL	2.4 UL	2.4 UL	2.4 UL	2.8 J
SILVER	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
SODIUM	6500	7310	21700	21200	30000	25800	26900	23200
THALLIUM	8.1 B	7.7 B	9.0 B	7.6 B	8.9 B	7.9 B	5.8 B	5.0 UL
VANADIUM	2.9 U	5.3 B	2.9 U	2.9 U	2.9 U	4.0 B	4.2 B	27.3
ZINC	7.0 B	28.4 K	11.2 B	7.2 B	11.2 B	13.3 B	13.4 B	40.3
PETROLEUM HYDROCARBONS								
TOTAL PETROLEUM HYDROCARBONS MG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TPH-DIESEL UG/L	120	100 U	100 U	100 U	100 U	100 U	100 U	100 U
MISCELLANEOUS PARAMETERS								
AMMONIA MG/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
PERCHLORATE UG/L	798	8 U	5	4 U	8 U	8 U	8 U	8 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW440004	9GW550004	9GW560004	9GW57D0004	9GW57S0004	9GW580004	9GW590004	9GW740004
LOCATION	09PZ44	09PZ55	09PZ56	09GW57D	09GW57S	09GW58	09GW59	09GW74
SAMPLE DATE:	11/8/99	10/27/99	10/27/99	10/28/99	10/27/99	10/26/99	10/28/99	11/3/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)								
1,1,1-TRICHLOROETHANE	0.35 J	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 UR	1 UR	1 UR	2 UR	1 UR	1 UR	1 UR	1 UR
1,2-DIBROMOETHANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
2-BUTANONE	5 UR	5 UR	5 UR	10 UR	5 UR	5 UR	5 UR	5 UR
2-HEXANONE	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U
4-METHYL-2-PENTANONE	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U
ACETONE	5 UR	5 UR	5 UR	10 UR	5 UR	5 UR	5 UR	5 UR
BENZENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
BROMOCHLOROMETHANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
BROMOMETHANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	0.29 J
CHLOROBENZENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 UJ
CHLOROFORM	10	5.7	1.5	3.1	0.5 J	3	0.99 J	2
CHLOROMETHANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	4.4	0.16 J	1 U	1 U	1 U
CIS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
DIBROMOCHLOROMETHANE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	2 U	2 U	2 U	4 U	2 U	2 U	2 U	2 U
STYRENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	0.30 J	1 U	1 U	1 U	1 U
TOLUENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1.1	1 U	39	2.2	1 U	1 U	1.3
VINYL CHLORIDE	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U
SEMIVOLATILES (µg/L)								
2,2'-OXYBIS(1-CHLOROPROPANE)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-TRICHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW440004	9GW550004	9GW560004	9GW57D0004	9GW57S0004	9GW580004	9GW590004	9GW740004
LOCATION	09PZ44	09PZ55	09PZ56	09GW57D	09GW57S	09GW58	09GW59	09GW74
SAMPLE DATE:	11/8/99	10/27/99	10/27/99	10/28/99	10/27/99	10/26/99	10/28/99	11/3/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DIMETHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DINITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,6-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLORONAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-NITROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3,3'-DICHLOROBENZIDINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLORO-3-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROANILINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-NITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ACENAPHTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACENAPHTHYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(B)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(G,H,I)PERYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(K)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHOXY)METHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHYL)ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	1.6 J	5 U	1.8 B	0.95 J	5 U
BUTYLBENZYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHRYSENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DI-N-OCTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZOFURAN	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIMETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
FLUORENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEXACHL[illegible]ENZENE	5 U	5 U	[illegible]	5 U	5 U	5 U	5 U	[illegible] U
HEXACHL[illegible]UTADIENE	5 U	5 U	[illegible]	5 U	5 U	5 U	5 U	[illegible] U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW440004	9GW550004	9GW560004	9GW57D0004	9GW57S0004	9GW580004	9GW590004	9GW740004
LOCATION	09PZ44	09PZ55	09PZ56	09GW57D	09GW57S	09GW58	09GW59	09GW74
SAMPLE DATE:	11/8/99	10/27/99	10/27/99	10/28/99	10/27/99	10/26/99	10/28/99	11/3/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEXACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
INDENO(1,2,3-CD)PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ISOPHORONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-NITROSO-DI-N-PROPYLAMINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-NITROSODIPHENYLAMINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NITROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PENTACHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
PHENANTHRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)								
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ALDRIN	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
AROCLOR-1016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1221	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
AROCLOR-1232	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1242	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1248	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1254	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1260	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BETA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DELTA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DIELDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN I	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ENDOSULFAN II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN KETONE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
GAMMA-BHC (LINDANE)	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
METHOXYCHLOR	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
TOXAPHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
EXPLOSIVES (µg/L)								
1,3,5-TRINITROBENZENE	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U
1,3-DINITROBENZENE	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U
2,4,6-TRINITROTOLUENE	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW440004	9GW550004	9GW560004	9GW57D0004	9GW57S0004	9GW580004	9GW590004	9GW740004
LOCATION	09PZ44	09PZ55	09PZ56	09GW57D	09GW57S	09GW58	09GW59	09GW74
SAMPLE DATE:	11/8/99	10/27/99	10/27/99	10/28/99	10/27/99	10/26/99	10/28/99	11/3/99
ASSOCIATED DUPLICATE:								
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	0.65 U	0.2 U	0.2 U
2,6-DINITROTOLUENE	0.2 U	0.25	0.6 U	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	1	0.2 U	0.2 U
2-NITROTOLUENE	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U
3-NITROTOLUENE	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	0.92	0.2 U	0.2 U
4-NITROTOLUENE	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U
HMX	0.55	0.5 U	22	2.6	0.78	15	1.0	0.5 U
NITROBENZENE	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U
RDX	0.5 U	0.5 U	14	5.5	0.93	23	1.5	1.5
TETRYL	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U
INORGANICS (µg/L)								
ALUMINUM	708	1330	97.6	28.5 B	2970	4730	155	462
ANTIMONY	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ARSENIC	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	5.9	2.4 U	2.4 U
BARIUM	73.4	28.6	23.2	27.0	27.4	54.2	37.5	41.6
BERYLLIUM	0.39 B	0.10 B	0.10 U	0.11 B	0.42 B	0.19 B	0.16 B	0.19 B
CADMIUM	9.9 L	3.2 UL	3.2 U	3.2 U	3.2 UL	3.2 UL	3.2 U	3.2 U
CALCIUM	7850	2240	5220	3640	3520	4340	5200	5820
CHROMIUM	3.9	9.2	2.3 U	2.3 U	5.2	30.0	2.3 U	7.9
COBALT	23.8	2.6 U	2.6 U	2.6 U	20.5	13.1	3.6	2.6 U
COPPER	64.3	8.7 L	7.2	5.4 B	8.9 L	31.0 L	5.6	7.1 B
CYANIDE	1.9	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.5
IRON	3250	1.2	223 J	29.7 B	6890	22100	182 J	1410
LEAD	6.6	1.5	1.3 U	1.3 U	1.3 U	7.1	1.3 U	1.3 U
MAGNESIUM	6540	2420	1310	2050	4120	5420	2080	4160
MANGANESE	990	17.6	35.6	12.0	63.2	51.3	43.1	54.6
MERCURY	0.07 U	0.18	0.07 U	0.07 U	0.07 U	2.7	0.07 U	0.07 U
NICKEL	37.4	6.6 U	6.6 U	6.6 U	7.9	9.3	6.6 U	10.1
POTASSIUM	4420	1250	2770	1390 B	940	1850	1260 B	2400 K
SELENIUM	2.4 UJ	2.4 UJ	2.4 UL	2.4 UL	2.4 UJ	7.1 J	2.4 UL	2.4 UJ
SILVER	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
SODIUM	50900	7700	27700	9840	7790	18400	10400	8320
THALLIUM	5.7 B	9.2 B	8.4 B	9.8 B	7.0 B	5.0 UL	7.3 B	8.4 B
VANADIUM	2.9 U	12.2	2.9 U	2.9 U	9.0	44.3	2.9 U	2.9 U
ZINC	88.9	21.1 B	27.9 K	8.8 B	16.1 B	14.9 B	10.5 B	27.1 B
PETROLEUM HYDROCARBONS								
TOTAL PETROLEUM HYDROCARBONS MG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1
TPH-DIESEL UG/L	350	100 U	100 U	100 U	100 U	1000	100 U	100 UJ
MISCELLANEOUS PARAMETERS								
AMMONIA MG/L	0.2	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U	0.2 U	0.1
PERCHLORATE UG/L	4 U	8 U	10	34	8 U	4 U	4 U	7

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW750004	9GW830004	9GW1000004	9GW1010004	9GW1020004	9GW1030004	9GW1030004-D
LOCATION	09GW75	09GW83	09GW100	09GW101	09GW102	09GW103	09GW103
SAMPLE DATE:	10/27/99	10/28/99	10/27/99	11/2/99	10/29/99	11/3/99	11/3/99
ASSOCIATED DUPLICATE:						9GW1030004-D	9GW1030004
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 UR	1 UR	1 UR	1 UR	1 UR	1 UR	1 UR
1,2-DIBROMOETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-BUTANONE	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR	5 UR
2-HEXANONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYL-2-PENTANONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACETONE	5 UR	3.0 B	5 UR	5 UR	5 UR	5 UR	5 UR
BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ
CHLOROFORM	1 U	0.28 B	1.9	0.18 B	1 U	3.4	3.2
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1.9	0.24 J	1 U	0.11 J	1 U
CIS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
DIBROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	2 U	2 U	2 U
STYRENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	0.25 J	1 U	1 U	0.63 J	0.57 J
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	1 U	17	4.0	1 U	8.1	7.4
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SEMIVOLATILES (µg/L)							
2,2'-OXYBIS(1-CHLOROPROPANE)	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-TRICHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW750004	9GW830004	9GW1000004	9GW1010004	9GW1020004	9GW1030004	9GW1030004-D
LOCATION	09GW75	09GW83	09GW100	09GW101	09GW102	09GW103	09GW103
SAMPLE DATE:	10/27/99	10/28/99	10/27/99	11/2/99	10/29/99	11/3/99	11/3/99
ASSOCIATED DUPLICATE:						9GW1030004-D	9GW1030004
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DIMETHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-DINITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,6-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLORONAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-CHLOROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-NITROPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3,3'-DICHLOROBENZIDINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLORO-3-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROANILINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-NITROANILINE	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-NITROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U
ACENAPHTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ACENAPHTHYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(B)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(G,H,I)PERYLENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BENZO(K)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHOXY)METHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHYL)ETHER	5 U	5 U	5 U	5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	4.8 J	5 U	5 U	5 U
BUTYLBENZYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CHRYSENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DI-N-OCTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIBENZOFURAN	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
DIMETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
FLUORANTHENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
FLUO[illegible]NE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEX[illegible]OROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEXA[illegible]LOROBUTADIENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW750004	9GW830004	9GW1000004	9GW1010004	9GW1020004	9GW1030004	9GW1030004-D
LOCATION	09GW75	09GW83	09GW100	09GW101	09GW102	09GW103	09GW103
SAMPLE DATE:	10/27/99	10/28/99	10/27/99	11/2/99	10/29/99	11/3/99	11/3/99
ASSOCIATED DUPLICATE:						9GW1030004-D	9GW1030004
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
HEXACHLOROETHANE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
INDENO(1,2,3-CD)PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
ISOPHORONE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-NITROSO-DI-N-PROPYLAMINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-NITROSODIPHENYLAMINE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
NITROBENZENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PENTACHLOROPHENOL	20 U	20 U	20 U	20 U	20 U	20 U	20 U
PHENANTHRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PHENOL	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PYRENE	5 U	5 U	5 U	5 U	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)							
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ALDRIN	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-CHLORDANE	0.050 U	0.050 U	0.028 J	0.050 U	0.050 U	0.050 U	0.050 U
AROCLOR-1016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1221	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
AROCLOR-1232	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1242	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1248	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1254	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1260	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BETA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DELTA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DIELDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN I	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ENDOSULFAN II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN KETONE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
GAMMA-BHC (LINDANE)	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
METHOXYCHLOR	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
TOXAPHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
EXPLOSIVES (µg/L)							
1,3,5-TRINITROBENZENE	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-DINITROBENZENE	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,6-TRINITROTOLUENE	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW750004	9GW830004	9GW1000004	9GW1010004	9GW1020004	9GW1030004	9GW1030004-D
LOCATION	09GW75	09GW83	09GW100	09GW101	09GW102	09GW103	09GW103
SAMPLE DATE:	10/27/99	10/28/99	10/27/99	11/2/99	10/29/99	11/3/99	11/3/99
ASSOCIATED DUPLICATE:						9GW1030004-D	9GW1030004
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
2,6-DINITROTOLUENE	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
2-NITROTOLUENE	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
3-NITROTOLUENE	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
4-NITROTOLUENE	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	0.5 U	0.5 U	2.5	0.5 U	0.5 U	1.8	1.7
NITROBENZENE	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
RDX	0.5 U	0.5 U	32	0.90	0.5 U	2.5	2.3
TETRYL	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U
INORGANICS (µg/L)							
ALUMINUM	503	96.5	2720	60.8 B	413	84.1 B	68.3 B
ANTIMONY	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ARSENIC	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
BARIUM	18.5	40.0	68.6	42.9	49.1	25.1	25.1
BERYLLIUM	0.10 U	0.10 U	0.38 B	0.10 U	0.22 B	0.10 B	0.10 U
CADMIUM	3.2 UL	3.2 U	3.2 UL	3.2 U	3.2 U	3.2 U	3.2 U
CALCIUM	5280	9130	10800	26300	2000	4090	4460
CHROMIUM	2.4	2.3 U	2.4	2.3 U	68.0	3.7	2.4
COBALT	2.6 U	2.6 U	3.4	2.6 U	19.7	2.8	2.6 U
COPPER	5.1 L	7.1	8.9 L	9.9	41.8	5.0 B	6.4 B
CYANIDE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.8	2.2
IRON	2110	299 J	7170	124 J	2860 J	114 K	103 K
LEAD	1.3 U	1.3 U	1.3 U	1.3 U	3.9 K	1.3 U	1.3 U
MAGNESIUM	5000	6170	5940	10400	2600	3360	3380
MANGANESE	23.6	742	375	197	334	73.6	76.2
MERCURY	0.10	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
NICKEL	6.6 U	7.7	6.6 U	6.6 U	71.8	6.6 U	6.6 U
POTASSIUM	1480	3820	4180	4580	2170	2600 K	2390 K
SELENIUM	2.4 UJ	2.4 UL	2.4 UJ	2.4 UL	2.4 UL	2.4 UJ	2.4 UJ
SILVER	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
SODIUM	15800	10900	12300	19700	4570	17600	18000
THALLIUM	7.3 B	6.6 B	8.7 B	7.8 B	6.3 B	6.9 B	7.2 B
VANADIUM	2.9 U	2.9 U	3.2	2.9 U	2.9 U	2.9 U	2.9 U
ZINC	9.9 B	9.9 B	23.1 B	7.2 B	27.5 K	4.7 B	32.4 B
PETROLEUM HYDROCARBONS							
TOTAL PETROLEUM HYDROCARBONS MG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TPH-DIESEL UG/L	100 U	100 U	100 U	100 U	100 U	100 UJ	100 UJ
MISCELLANEOUS PARAMETERS							
AMMONIA MG/L	0.2 U	0.2 U	0.2	0.09	N/A	0.1	0.09
PERCHLORATE UG/L	8 U	4 U	8 U	7	N/A	4 U	4 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW1040004	9GW1050004	9GW1060004	9GW1070004	9GW1080004	9GW1090004	9GW1100004
LOCATION	09GW104	09GW105	09GW106	09GW107	09GW108	09GW109	09GW110
SAMPLE DATE:	11/4/99	11/2/99	11/2/99	11/3/99	10/29/99	11/2/99	11/3/99
ASSOCIATED DUPLICATE:							
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,2,4-TRICHLOROBENZENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 UR	2 UR	1 UR	1 UR	1 UR	1 UR	1 UR
1,2-DIBROMOETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
2-BUTANONE	5 UR	10 UR	5 UR	5 UR	5 UR	5 UR	5 UR
2-HEXANONE	5 U	10 U	5 U	5 U	5 U	5 U	5 U
4-METHYL-2-PENTANONE	5 U	10 U	5 U	5 U	5 U	5 U	5 U
ACETONE	5 UR	10 UR	5 UR	5 UR	1.2 B	5 UR	5 UR
BENZENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
BROMOCHLOROMETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	2 U	1 U	1 U	1 U	1 U	1 U
BROMOMETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 UJ	2 U	1 U	1 UJ	1 U	1 U	1 UJ
CHLOROFORM	1 U	1.7 J	0.76 J	1 U	1 U	1.2	1.4
CHLOROMETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1.4	3.8	1 U	1 U	0.28 J	1 U	0.29 J
CIS-1,3-DICHLOROPROPENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
DIBROMOCHLOROMETHANE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	2 U	0.77 B	2 U	2 U	2 U	2 U	2 U
STYRENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	2 U	1 U	1 U	1.2	1 U	0.24 J
TOLUENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	2.1	32	1 U	1 U	2.7	1 U	2.3
VINYL CHLORIDE	1 U	2 U	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	1 U	2 U	1 U	1 U	1 U	1 U	1 U
SEMIVOLATILES (µg/L)							
2,2'-OXYBIS(1-CHLOROPROPANE)	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
2,4,5-TRICHLOROPHENOL	20 U	21 U	20 U	20 U	20 U	20 U	20 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW1040004	9GW1050004	9GW1060004	9GW1070004	9GW1080004	9GW1090004	9GW1100004
LOCATION	09GW104	09GW105	09GW106	09GW107	09GW108	09GW109	09GW110
SAMPLE DATE:	11/4/99	11/2/99	11/2/99	11/3/99	10/29/99	11/2/99	11/3/99
ASSOCIATED DUPLICATE:							
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
2,4-DICHLOROPHENOL	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
2,4-DIMETHYLPHENOL	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
2,4-DINITROPHENOL	20 U	21 U	20 U	20 U	20 U	20 U	20 U
2,4-DINITROTOLUENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
2,6-DINITROTOLUENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
2-CHLORONAPHTHALENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
2-CHLOROPHENOL	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
2-METHYLPHENOL	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
2-NITROANILINE	20 U	21 U	20 U	20 U	20 U	20 U	20 U
2-NITROPHENOL	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
3,3'-DICHLOROBENZIDINE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
3-NITROANILINE	20 U	21 U	20 U	20 U	20 U	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 U	21 U	20 U	20 U	20 U	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
4-CHLORO-3-METHYLPHENOL	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROANILINE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
4-METHYLPHENOL	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
4-NITROANILINE	20 U	21 U	20 U	20 U	20 U	20 U	20 U
4-NITROPHENOL	20 U	21 U	20 U	20 U	20 U	20 U	20 U
ACENAPHTHENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
ACENAPHTHYLENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
ANTHRACENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)ANTHRACENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
BENZO(A)PYRENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
BENZO(B)FLUORANTHENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
BENZO(G,H,I)PERYLENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
BENZO(K)FLUORANTHENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHOXY)METHANE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHYL)ETHER	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
BUTYLBENZYL PHTHALATE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
CHRYSENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
DI-N-BUTYL PHTHALATE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
DI-N-OCTYL PHTHALATE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
DIBENZOFURAN	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
DIETHYL PHTHALATE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
DIMETHYL PHTHALATE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
FLUORANTHENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
FLUORENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
HEX[illegible]OROBENZENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
HEX[illegible]OROBUTADIENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW1040004	9GW1050004	9GW1060004	9GW1070004	9GW1080004	9GW1090004	9GW1100004
LOCATION	09GW104	09GW105	09GW106	09GW107	09GW108	09GW109	09GW110
SAMPLE DATE:	11/4/99	11/2/99	11/2/99	11/3/99	10/29/99	11/2/99	11/3/99
ASSOCIATED DUPLICATE:							
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
HEXACHLOROETHANE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
INDENO(1,2,3-CD)PYRENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
ISOPHORONE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
N-NITROSO-DI-N-PROPYLAMINE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
N-NITROSODIPHENYLAMINE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
NITROBENZENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
PENTACHLOROPHENOL	20 U	21 U	20 U	20 U	20 U	20 U	20 U
PHENANTHRENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
PHENOL	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
PYRENE	5 U	5.2 U	5 U	5 U	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)							
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ALDRIN	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
AROCLOR-1016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1221	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
AROCLOR-1232	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1242	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1248	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1254	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1260	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BETA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DELTA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DIELDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN I	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ENDOSULFAN II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN KETONE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
GAMMA-BHC (LINDANE)	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
METHOXYCHLOR	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
TOXAPHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
EXPLOSIVES (µg/L)							
1,3,5-TRINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-DINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,6-TRINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GW1040004	9GW1050004	9GW1060004	9GW1070004	9GW1080004	9GW1090004	9GW1100004
LOCATION	09GW104	09GW105	09GW106	09GW107	09GW108	09GW109	09GW110
SAMPLE DATE:	11/4/99	11/2/99	11/2/99	11/3/99	10/29/99	11/2/99	11/3/99
ASSOCIATED DUPLICATE:							
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
3-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	0.5 U	1.5	0.74	0.5 U	0.5 U	2.6	2.4
NITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
RDX	0.5 U	5.7	4.6	0.5 U	0.5 U	3	1.9
TETRYL	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
INORGANICS (µg/L)							
ALUMINUM	68.3 B	356	53.6 B	47.5 B	322	15800	62.4 B
ANTIMONY	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
ARSENIC	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	7.4	2.4 U
BARIUM	76.7	36.4	15.6	52.7	35.3	64.4	41.6
BERYLLIUM	0.10 U	0.42 B	0.10 U	0.16 B	0.14 B	0.39 B	0.14 B
CADMIUM	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
CALCIUM	10500	6380	908	3770	8440	3280	4220
CHROMIUM	2.3 U	2.5	5.9	2.3 U	2.3 U	71.4	2.7
COBALT	2.6 U	2.6 U	5.1	2.6 U	3.6	10.	12.3
COPPER	5.9 B	7.4 B	7.2 B	4.5 B	6.2	30.1	5.7 B
CYANIDE	1.3	1.3	1.3	2.4	1.2 U	1.3	2.4
IRON	420	634	391	750	4080 J	34300	252
LEAD	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	12.3	1.3 U
MAGNESIUM	5920	2760	908	2330	7020	3560	3360
MANGANESE	609	162	42.4	50.5	655	160	1170
MERCURY	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.37	0.07 U
NICKEL	6.6 U	6.6 U	6.6	6.6 U	6.7	9.7	8.5
POTASSIUM	3990 K	2510 K	888 K	2730 K	8490	2190 K	2480 K
SELENIUM	2.4 UJ	2.4 UJ	2.4 UJ	2.4 UJ	2.4 UL	2.4 UJ	2.4 UJ
SILVER	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.9	2.2 U
SODIUM	10100	9390	4590	42600	12200	12600	11100
THALLIUM	6.6 B	9.0 B	9.5 B	9.2 B	11.4 B	9.7 B	10.1 B
VANADIUM	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	72.9	2.9 U
ZINC	18.8 B	20.1 B	20.4 B	16.2 B	8.7 B	41.4 B	21.1 B
PETROLEUM HYDROCARBONS							
TOTAL PETROLEUM HYDROCARBONS **MG/L**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TPH-DIESEL **UG/L**	100 UJ	100 U	100 U	100 UJ	120	100 U	100 UJ
MISCELLANEOUS PARAMETERS							
AMMONIA **MG/L**	0.1	0.1	0.1	0.3	N/A	0.2	0.2
PERCHLORATE **UG/L**	4 U	16	4 U	4 U	N/A	4 U	8

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GWBLD3670004	9GWC50004	9GWC50004-D	9GWC60004	9GWC140004
LOCATION	BLD367	C-05	C-05	C-06	C-14
SAMPLE DATE:	11/1/99	11/4/99	11/4/99	11/8/99	11/9/99
ASSOCIATED DUPLICATE:		9GWC50004-D	9GWC50004		
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
VOLATILES (µg/L)					
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	4.1	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	1 U	1 U	1 U	0.14 J	1 U
1,2,4-TRICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U
1,2-DIBROMO-3-CHLOROPROPANE	1 UR	1 UR	1 UR	1 UR	1 UR
1,2-DIBROMOETHANE	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROPROPANE	1 U	1 U	1 U	1 U	1 U
1,3-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U
1,4-DICHLOROBENZENE	1 U	1 U	1 U	1 U	1 U
2-BUTANONE	5 UR	5 UR	5 UR	5 UR	5 UR
2-HEXANONE	5 U	5 U	5 U	5 U	5 U
4-METHYL-2-PENTANONE	5 U	5 U	5 U	5 U	5 U
ACETONE	5 UR	5 UR	5 UR	5 UR	1.4 B
BENZENE	1 U	1 U	1 U	1 U	1 U
BROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	0.41 J	1 U
BROMOFORM	1 U	1 U	1 U	1 U	1 U
BROMOMETHANE	1 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	1 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	0.9 J	0.94 J	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 U	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROFORM	1 U	8	8.1	4	1 U
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	1 U	1 U	1 U	5.5	1 U
CIS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U
DIBROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	2 U	2 U	2 U	2 U	2 U
STYRENE	1 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	0.51 J	1 U
TOLUENE	1 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	1 U	1 U	1 U	0.27 J	1 U
TRANS-1,3-DICHLOROPROPENE	1 U	1 U	1 U	1 U	1 U
TRICHLOROETHENE	1 U	2	2.1	75	1 U
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U
XYLENES, TOTAL	1 U	1 U	1 U	1 U	1 U
SEMIVOLATILES (µg/L)					
2,2'-OXYBIS(1-CHLOROPROPANE)	5 U	5 U	5 U	5 U	5 U
2,4,5-TRICHLOROPHENOL	20 U	20 U	20 U	20 U	20 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GWBLD3670004	9GWC50004	9GWC50004-D	9GWC60004	9GWC140004
LOCATION	BLD367	C-05	C-05	C-06	C-14
SAMPLE DATE:	11/1/99	11/4/99	11/4/99	11/8/99	11/9/99
ASSOCIATED DUPLICATE:		9GWC50004-D	9GWC50004		
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4,6-TRICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U
2,4-DICHLOROPHENOL	5 U	5 U	5 U	5 U	5 U
2,4-DIMETHYLPHENOL	5 U	5 U	5 U	5 U	5 U
2,4-DINITROPHENOL	20 U	20 U	20 U	20 U	20 U
2,4-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U
2,6-DINITROTOLUENE	5 U	5 U	5 U	5 U	5 U
2-CHLORONAPHTHALENE	5 U	5 U	5 U	5 U	5 U
2-CHLOROPHENOL	5 U	5 U	5 U	5 U	5 U
2-METHYLNAPHTHALENE	5 U	5 U	5 U	5 U	5 U
2-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U
2-NITROANILINE	20 U	20 U	20 U	20 U	20 U
2-NITROPHENOL	5 U	5 U	5 U	5 U	5 U
3,3'-DICHLOROBENZIDINE	5 U	5 U	5 U	5 U	5 U
3-NITROANILINE	20 U	20 U	20 U	20 U	20 U
4,6-DINITRO-2-METHYLPHENOL	20 U	20 U	20 U	20 U	20 U
4-BROMOPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U
4-CHLORO-3-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U
4-CHLOROANILINE	5 U	5 UR	5 UR	5 U	5 U
4-CHLOROPHENYL PHENYL ETHER	5 U	5 U	5 U	5 U	5 U
4-METHYLPHENOL	5 U	5 U	5 U	5 U	5 U
4-NITROANILINE	20 U	20 U	20 U	20 U	20 U
4-NITROPHENOL	20 U	20 U	20 U	20 U	20 U
ACENAPHTHENE	5 U	5 U	5 U	5 U	5 U
ACENAPHTHYLENE	5 U	5 U	5 U	5 U	5 U
ANTHRACENE	5 U	5 U	5 U	5 U	5 U
BENZO(A)ANTHRACENE	5 U	5 U	5 U	5 U	5 U
BENZO(A)PYRENE	5 U	5 U	5 U	5 U	5 U
BENZO(B)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U
BENZO(G,H,I)PERYLENE	5 U	5 U	5 U	5 U	5 U
BENZO(K)FLUORANTHENE	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHOXY)METHANE	5 U	5 U	5 U	5 U	5 U
BIS(2-CHLOROETHYL)ETHER	5 U	5 U	5 U	5 U	5 U
BIS(2-ETHYLHEXYL)PHTHALATE	5 U	5 U	5 U	5 U	5 U
BUTYLBENZYL PHTHALATE	5 U	5 U	5 U	5 U	5 U
CHRYSENE	5 U	5 U	5 U	5 U	5 U
DI-N-BUTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U
DI-N-OCTYL PHTHALATE	5 U	5 U	5 U	5 U	5 U
DIBENZO(A,H)ANTHRACENE	5 U	5 U	5 U	5 U	5 U
DIBENZOFURAN	5 U	5 U	5 U	5 U	5 U
DIETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U
DIMETHYL PHTHALATE	5 U	5 U	5 U	5 U	5 U
FLUORANTHENE	5 U	5 U	5 U	5 U	5 U
FLUORENE	5 U	5 U	5 U	5 U	5 U
HEXACHLOROBENZENE	5 U	5 U	5 U	5 U	5 U
HEXACHLOROBUTADIENE	5 U	5 U	5 U	5 U	5 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GWBLD3670004	9GWC50004	9GWC50004-D	9GWC60004	9GWC140004
LOCATION	BLD367	C-05	C-05	C-06	C-14
SAMPLE DATE:	11/1/99	11/4/99	11/4/99	11/8/99	11/9/99
ASSOCIATED DUPLICATE:		9GWC50004-D	9GWC50004		
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
HEXACHLOROCYCLOPENTADIENE	5 U	5 U	5 U	5 U	5 U
HEXACHLOROETHANE	5 U	5 U	5 U	5 U	5 U
INDENO(1,2,3-CD)PYRENE	5 U	5 U	5 U	5 U	5 U
ISOPHORONE	5 U	5 U	5 U	5 U	5 U
N-NITROSO-DI-N-PROPYLAMINE	5 U	5 U	5 U	5 U	5 U
N-NITROSODIPHENYLAMINE	5 U	5 U	5 U	5 U	5 U
NAPHTHALENE	5 U	5 U	5 U	5 U	5 U
NITROBENZENE	5 U	5 U	5 U	5 U	5 U
PENTACHLOROPHENOL	20 U	20 U	20 U	20 U	20 U
PHENANTHRENE	5 U	5 U	5 U	5 U	5 U
PHENOL	5 U	5 U	5 U	5 U	5 U
PYRENE	5 U	5 U	5 U	5 U	5 U
PESTICIDES/PCBs (µg/L)					
4,4'-DDD	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ALDRIN	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ALPHA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
AROCLOR-1016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1221	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
AROCLOR-1232	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1242	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1248	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1254	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
AROCLOR-1260	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BETA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DELTA-BHC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
DIELDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN I	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
ENDOSULFAN II	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDOSULFAN SULFATE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN ALDEHYDE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
ENDRIN KETONE	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
GAMMA-BHC (LINDANE)	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
GAMMA-CHLORDANE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
HEPTACHLOR EPOXIDE	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
METHOXYCHLOR	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
TOXAPHENE	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
EXPLOSIVES (µg/L)					
1,3,5-TRINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-DINITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4,6-TRINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

SITE 9
NSWC WHITE OAK
SILVER SPRING, MARYLAND
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
ROUND 4 DATA - OCTOBER/NOVEMBER 1999

SAMPLE I.D.:	9GWBLD3670004	9GWC50004	9GWC50004-D	9GWC60004	9GWC140004
LOCATION	BLD367	C-05	C-05	C-06	C-14
SAMPLE DATE:	11/1/99	11/4/99	11/4/99	11/8/99	11/9/99
ASSOCIATED DUPLICATE:		9GWC50004-D	9GWC50004		
VALIDATION STATUS:	VALIDATED	VALIDATED	VALIDATED	VALIDATED	VALIDATED
2,4-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,6-DINITROTOLUENE	0.2 U	0.26	0.25	0.2 U	0.2 U
2-AMINO-4,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
3-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-AMINO-2,6-DINITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-NITROTOLUENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
HMX	0.5 U	1.7	1.8	0.7	0.5 U
NITROBENZENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
RDX	0.5 U	6.5 J	7.1 J	0.5 U	0.5 U
TETRYL	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
INORGANICS (µg/L)					
ALUMINUM	16.2 U	75.5 B	70.9 B	46.4 B	152
ANTIMONY	1.8 U	1.8 U	1.8 U	1.4 U	1.4 U
ARSENIC	2.4 U	2.4 U	2.4 U	2.9 U	2.9 U
BARIUM	40.6	36.7	37.9	32.3	102
BERYLLIUM	0.10 U	0.10 U	0.10 B	0.10 U	0.10 U
CADMIUM	3.2 U	3.2 U	3.2 U	3.2 UL	3.2 UL
CALCIUM	7310	3280	3450	2420	15000
CHROMIUM	2.3 U	4.3	6.2	5.2	3.1
COBALT	2.6 U	2.6 U	2.8	3.5	2.6 U
COPPER	6.2	4.7 B	5.9 B	7.3	2.3
CYANIDE	1.2 U	1.2 U	1.2 U	1.2 B	1.2 U
IRON	2400 J	195 K	185 K	93.6 B	983
LEAD	1.3 U	1.3 U	1.3 U	1.6 U	1.9 K
MAGNESIUM	5350	3410	3530	3280	4780
MANGANESE	73.2	117	117	35.1	114
MERCURY	0.07 U	0.07 U	0.072 U	0.44	0.07 UL
NICKEL	6.6 U	6.6 U	6.6 U	6.6 U	8.5
POTASSIUM	3860	1690 K	1890 K	1540	10800
SELENIUM	2.4 UL	2.4 UJ	2.4 UJ	3.0 U	3.0 U
SILVER	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
SODIUM	4310	7970	8260	19300	13600
THALLIUM	8.7 B	10.7 B	10.1 B	3.8 U	3.8 U
VANADIUM	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
ZINC	264	15.2 B	15.8 B	8.8 B	16.4 B
PETROLEUM HYDROCARBONS					
TOTAL PETROLEUM HYDROCARBONS MG/L	1 U	1 U	1 U	1.0 U	1.0 U
TPH-DIESEL UG/L	100 U	100 UJ	100 UJ	100 U	700 J
MISCELLANEOUS PARAMETERS					
AMMONIA MG/L	0.1	0.09	0.1	0.2 U	0.2 U
PERCHLORATE UG/L	4 U	20	25	4 U	4 U

SECTION G

DATA VALIDATION MEMORANDA

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**MR. RON KOTUN**	**DATE:**	**MARCH 10, 2000**
FROM:	**LINDA KARSONOVICH**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOA/SVOA/PEST/PCB/EXP/TPH**
CTO 298, NSWC WHITE OAK, MD
SDG WO082

SAMPLES: 18/Aqueous/

4GW100004	4GW1010004	4GW1030004	4GW1090004
4GW110004	4GW480004	4GW520004	4GW529904
4GW790004	4GW799904	4GW800004	4GW81D0004
4GW890004	9GWC140004	FB111099-00-04	TB110999-00-04
TB111099-00-04	TB111199-00-04		

OVERVIEW

The sample set for CTO 298, SDG WO082, NSWC White Oak, MD consists of three (3) trip blanks (TB), one (1) field blank (FB) and fourteen (14) aqueous environmental samples. All samples were analyzed for Target Compound List (TCL) volatile organic compounds. The environmental samples and field blank were also analyzed for TCL semivolatile organic compounds, pesticides/PCBs, explosive compounds, and TPH-Diesel. Two field duplicate pairs were included in the SDG: 4GW520004 and 4GW529904; and 4GW790004 and 4GW799904.

The samples were collected by TetraTech NUS on November 8-11, 1999 and were analyzed by Quanterra Laboratories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using Contract Laboratory Program (CLP) Statement of Work (SOW) OLC02.1 and SW-846 Methods 8330 and 8015B analytical and reporting protocols.

All samples were successfully analyzed with the exception of those results that were rejected. The findings offered in this report are based upon a general review of all available data including: data completeness, system performance and tuning, holding times, initial/continuing calibrations, laboratory method blank results, surrogate spike recoveries, internal standard recoveries, matrix spike/matrix spike duplicate results, field duplicate results, compound identification, compound quantitation, and detection limits. Areas of concern are listed below.

Major Problems

- Initial and continuing calibration relative response factors (RRFs) fell below the 0.05 quality control limit for acetone, 2-butanone, and 1,2-dibromo-3-chloropropane. Nondetected results for all three compounds were rejected, UR. Positive results for acetone, not qualified for blank contamination, were qualified as biased low, L.

Minor Problems

- TPH samples were extracted beyond the seven day holding time. Positive and nondetected results were qualified as estimated, J and UJ, for samples 4GW100004, 4GW1010004, 4GW1030004, 4GW1090004, 4GW110004, 4GW480004, 4GW790004, 4GW799904, 4GW81D0004, 4GW890004, 9GWC140004, and FB111099-00-04.

- Calibration percent differences (%Ds) exceeded the 25% quality control limit for chloroethane. Nondetected results were qualified as estimated, UJ, in all samples except TB111199-00-04 since the exceedances were greater than 50%.

- A continuing calibration %D exceeded the 25% quality control limit for carbon tetrachloride. The positive result in sample 4GW800004 was qualified as estimated, J. Nondetected results were not qualified since the exceedance was less than 50%.

- The following compounds were detected in the laboratory method blanks or field quality control blanks (*):

Compound	Maximum Concentration	Blank Action Level
Acetone	3.7 µg/L	37 µg/L
Methylene chloride*	2.0 µg/L	20 µg/L
Chloroform*	0.62 µg/L	3.1 µg/L
Di-n-butyl phthalate*	1.8 µg/L	18 µg/L

  Sample aliquot and dilution factors were taken into consideration when applying the blank action limit. Positive results for acetone and chloroform below the blank action level were qualified as false positives, B. Field quality control blanks were not qualified based on contamination in other field quality control blanks or laboratory method blanks.

- Positive results below the CRQL were qualified as estimated, J, due to uncertainty near the detection limit. The direction of bias cannot be determined.

Notes

The TPH diesel initial calibration was not included in the SDG. The laboratory was contacted and was able to deliver the required information.

An initial calibration relative percent standard deviation (%RSD) exceeded the 30% quality control limit for chloroethane. No qualifiers were assigned on this basis since the exceedance was less than 50% and the compound was not detected in the samples.

Continuing calibration %Ds exceeded the 25% quality control limit for chloroethane, carbon disulfide, carbon tetrachloride, 1,2,4-trichlorobenzene, and 1,1-dichloroethene. No qualifiers were assigned on this basis since the exceedance was less than 50% and the compounds were not detected in the samples.

Several samples were analyzed and reported at dilution factors ranging from 2X to 5X due to the presence of target compounds. This accounts for the elevated reporting limits in the following samples: 4GW1050004, 4GW790004, 4GW799904, and 4GW890004.

Sample 4GW480004 was analyzed and reported at a 10X dilution factor. The sample was re-analyzed at a 25X dilution factor due to the presence of trichloroethene above the instrument's linear calibration range. The result from the 25X dilution for this compound only was transposed over the 10X result and used for data validation purposes. No qualifiers were assigned on this basis.

Sample 4GW800004 was re-analyzed at a 10X dilution factor due to the presence of trichloroethene above the instrument's linear calibration range. The result from the dilution for this compound only was transposed over the undiluted result and used for data validation purposes. No qualifiers were assigned on this basis.

Naphthalene was tentatively identified in the volatile fraction of sample 4GW1030004 at a concentration of 1.5 µg/L. The compound was also reported in the semivolatile fraction at a concentration of 2.1 µg/L.

Explosive surrogate recovery of 1-chloro-3-nitrobenzene exceeded the upper quality control limit in sample 4GW110004. No qualifiers were assigned on this basis since no positive results were reported for this sample.

EXECUTIVE SUMMARY

Laboratory Performance Issues:. Several volatile compounds failed to meet the RRF quality control criteria. Several compounds failed to meet the continuing calibration %D criteria in the volatile fraction. Several compounds were detected in the laboratory method and field quality control blanks.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (9/94) as modified by Region III and the NFESC guidelines "Navy Installation Restoration Program Laboratory Quality Assurance Guide" (February, 1996). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

TetraTech NUS

Linda Karsonovich
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO :	**R. KOTUN**	**DATE:**	**FEBRUARY 29, 2000**
FROM:	**JENNIFER M. MALLE**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION –TAL METALS, DISSOLVED TAL METALS AND CYANIDE**
CTO 298 – NSWC WHITE OAK, MD
SAMPLE DELIVERY GROUP SDG – WO079

SAMPLES: 24/Aqueous/

13GW040004	13GW049904	9GW010004
9GW020004	9GW020004-F	9GW030004
9GW040004	9GW050004	9GW050004-F
9GW060004	9GW060004-F	9GW069904
9GW069904-F	9GW1010004	9GW1020004
9GW1020004-F	9GW1080004	9GW1080004-F
9GW560004	9GW57D0004	9GW590004
9GW830004	9GW830004-F	9GWBLD3670004

Overview

The sample set for SDG WO079, NSWC White Oak, consists of twenty-four (24) aqueous environmental samples. Three field duplicate pairs (13GW040004/13GW049904, 9GW060004/ 9GW069904 and 9GW060004-F/9GW069904-F) were included within this SDG.

All samples, with exception to those designated -F, were analyzed for target analyte list (TAL) metals and cyanide. The samples designated with -F were analyzed for dissolved (TAL) metals. The samples were collected by Tetra Tech NUS on October 27-29 and November 1-2, 1999 and analyzed by Quanterra Laboratories under Naval Facilities Engineering Service Center (NFESC) Navy Installation Restoration Laboratory Quality Assurance Guide (February 1996). Metals and cyanide analyses were conducted using CLP ILM04.0 methodology.

All TAL metals analyses, with the exception of mercury, were conducted using Inductively Coupled Plasma (ICP) methodologies. Mercury analyses were conducted using Cold Vapor AA.

Summary

All analytes were successfully analyzed. The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, calibration data, laboratory method/preparation blanks, interference check sample (ICS) results, matrix spike results, laboratory duplicate results, laboratory control sample (LCS) results, ICP serial dilution results, field duplicate results, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems

- None.

Minor Problems

- Several Contract Required Detection Limit (CRDL) Percent Recoveries (%Rs) for selenium were less than the 90% quality control limits. The nondetected results reported for selenium were qualified as biased low, "UL".

- The Contract Required Detection Limit (CRDL) Percent Recoveries (%Rs) for lead and zinc were greater than the 110% quality control limits. The positive results less than 2 times the CRDL values reported for lead and zinc were qualified as biased high, "K".

- The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations :

Samples Affected: All

Analyte	Maximum Concentration	Action Level (aqueous)
Aluminum	16.4 ug/L	82 ug/L
Barium	0.4 ug/L	2.0 ug/L
Beryllium	0.37 ug/L	1.85 ug/L
Calcium [2]	21.6 ug/L	108 ug/L
Copper [1]	2.5 ug/L	12.5 ug/L
Copper	1.1 ug/L	5.5 ug/L
Iron [2]	12.1 ug/L	60.5 ug/L
Iron [1]	11.2 ug/L	56.0 ug/L
Manganese	0.85 ug/L	4.25 ug/L
Potassium	302 ug/L	1510 ug/L
Sodium [2]	79.6 ug/L	398 ug/L
Sodium [1]	66 ug/L	330 ug/L
Thallium [1] [2]	8.4 ug/L	42 ug/L
Vanadium	3.5 ug/L	17.5 ug/L
Zinc [2]	3.3 ug/L	16.5 ug/L
Zinc	2.7 ug/L	13.5 ug/L

[1] -Maximum concentration present in a preparation blank affecting total metals
[1] -Maximum concentration present in a preparation blank affecting dissolved metals

An action level of 5x the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration when evaluating for blank contamination. The positive results less than the action level for aluminum, beryllium, copper, iron, potassium, thallium, vanadium, and zinc were qualified, "B", as a result of blank contamination. No validation action was required for the remaining analytes since either the results were greater than the action level or were qualified nondetected by the laboratory.

- Field duplicate imprecisions (greater than the 30% RPD and 5x the CRDL) for cyanide and iron were noted in the total metal samples. Positive results reported for cyanide and iron in the affected samples were qualified as estimated, "J".

Notes

The Contract Required Detection Limit (CRDL) Percent Recovery (%R) for thallium was greater than the 110% quality control limits. However, no validation action was taken since the results reported for thallium were either nondetected or qualified for blank contamination.

The reporting limits on the Electronic Deliverable Data (EDD) for cyanide were incorrect. The reporting limits on the Form 1's were correct and the EDD was changed to match the Form 1 reporting limits.

The results reported for mercury do not match exactly between the Form 1's and the EDD. This is due to the fact that results are reported for mercury on the Form 1's to three significant figures while the results reported on the EDD are to two significant figures. No changes were made to the Form 1's regarding this issue.

Executive Summary

Laboratory Performance: The CRDL %Rs for lead, selenium and zinc were outside the 90-110% quality control limits. Several analytes were also present in the laboratory method/ preparation blanks.

Other Factors Affecting Data Quality: Field duplicate imprecision was noted in the total metals samples for cyanide and iron.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Validation", April 1993 Revision as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Laboratory Quality Assurance Guide" (NFESC 2/96).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Jennifer M. Malle
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

PITT-12-9-181

TO :	**R. KOTUN**	**DATE:**	**MARCH 3, 2000**
FROM:	**GRETCHEN A. PHIPPS**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION –TAL METALS, DISSOLVED TAL METALS AND CYANIDE**
CTO 298 – NSWC WHITE OAK, MD
SAMPLE DELIVERY GROUP SDG – WO073

SAMPLES: 26/Aqueous/

7GW080004	7GW080004-F	7GW1010004
7GW1010004-F	7GW1020004	7GW1020004-F
7GW1030004	7GW1030004-F	7GW1039904
7GW1039904-F	7GW1040004	7GW1050004
7GW410004	7GW410004-F	8GW330004
8GW330004-F	8GW340004	8GW340004-F
8GW350004	8GW350004-F	8GW360004
8GW360004-F	8GW530004	8GW530004-F
8GWB10004	8GWB10004-F	

Overview

The sample set for SDG WO073, NSWC White Oak, consists of twenty-six (26) aqueous environmental samples. Two (2) field duplicate (7GW1030004 / 7GW1039904 and 7GW1030004-F / 7GW1039904-F) were included within this SDG.

All samples, with exception to those designated –F, were analyzed for target analyte list (TAL) metals and cyanide. The samples designated with –F were analyzed for dissolved target analyte list (TAL) metals. The samples were collected by Tetra Tech NUS on October 5-7, 1999 and analyzed by Quanterra Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. Metals and cyanide analyses were conducted using CLP ILM03.0/4.0 methodology.

Summary

All analytes were successfully analyzed. The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, calibration data, laboratory method/preparation blanks, interference check sample (ICS) results, matrix spike results, post digestion spike recoveries, laboratory duplicate results, field duplicate results, laboratory control sample (LCS) results, ICP serial dilution results, detection limits and analyte quantitation.

All TAL metals analyses, with the exception of mercury, were conducted using Inductively Coupled Plasma (ICP) methodologies. Mercury analyses were conducted using cold vapor AA.

Areas of concern with respect to data quality are listed below.

Minor Problems

- The Contract Required Detection Limit (CRDL) Percent Recoveries (%Rs) for antimony and thallium <90% quality control limit. The nondetected results reported for antimony and thallium were qualified as biased low, "UL".

- The CRDL %Rs for iron, selenium and zinc >110% quality control limit. The positive results <2X CRDL reported for iron, selenium and zinc were qualified as biased high, "K".

- The following contaminants were detected in the laboratory method / preparation blanks at the following maximum concentrations :

Samples Affected: All

Analyte	Maximum Concentration	Action Level(aqueous)
Aluminum[1]	97.5µg/L	487.5µg/L
Aluminum	90.6µg/L	453µg/L
Barium[2]	0.74µg/L	3.7µg/L
Barium	0.6µg/L	3.0µg/L
Beryllium	0.6µg/L	3.0µg/L
Manganese	0.5µg/L	2.5µg/L
Thallium[2]	9.0µg/L	45.0µg/L
Thallium	6.3µg/L	31.5µg/L
Zinc[1]	3.2µg/L	16.0µg/L
Zinc[2]	4.5µg/L	22.5µg/L

(1) Maximum concentration present in an aqueous preparation blank for total metals.
(2) Maximum concentration present in an aqueous preparation blank for dissolved metals.

An action level of 5x the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration when evaluating for blank contamination. The positive results < the action level for aluminum, beryllium, thallium and zinc were qualified, "B", as a result of blank contamination. No validation action was required for the remaining analytes since either the results were greater than the action level or were nondetects.

- The Matrix Spike (MS) Percent Recovery (%R) for aluminum affecting the dissolved metals was >125% quality control limit. The positive results reported for aluminum in the affected samples were qualified as biased high, "K".

- The MS %R for mercury affecting the dissolved metals was <75% quality control limit. The positive and nondetected results reported for mercury in the affected samples were qualified as biased low, "L" and "UL", respectively.

- The ICP Serial Dilution Percent Difference (%D) for potassium was >10% quality control limit affected the dissolved metals. The positive results reported for potassium in the affected samples were qualified as estimated, "J". The direction of bias could not be determined.

Notes

A comparison of field duplicate pairs (7GW1030004 / 7GW1039904 and 7GW1030004-F / 7GW1039904-F) is included in Appendix C.

The Electronic Spreadsheets were submitted with the nondetected results reported incorrectly. The laboratory was notified and corrected spreadsheets were requested.

Executive Summary

Laboratory Performance: The CRDL %Rs for several analytes were outside the 90-110% quality control limit. Several analytes were present in the laboratory method/preparation blanks.

Other Factors Affecting Data Quality: The MS %Rs for aluminum and mercury were outside the 75-125% quality control limits affecting the dissolved metals. The ICP Serial Dilution %D for potassium was >10% quality control limit affected the dissolved metals.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Validation", April 1993 Revision as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Chemical Data Quality Manual" (NFESC 6/98).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Gretchen A. Phipps

Tetra Tech NUS
Gretchen A. Phipps
Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

PITT-12-9-206

TO :	**R. KOTUN**	**DATE:**	**MARCH 3, 2000**
FROM:	**GRETCHEN A. PHIPPS**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION –TAL METALS, DISSOLVED TAL METALS AND CYANIDE**
CTO 298 – NSWC WHITE OAK, MD
SAMPLE DELIVERY GROUP SDG – WO078

SAMPLES: 28/Aqueous/

13GW010004	13GW010004-F	13GW019904
13GW019904-F	13GW020004	13GW030004
13GW030004-F	3GW1020004	3GW1040004
3GW180004	3GW180004-F	3GW78D0004
3GW78S0004	5GW020004	5GW020004-F
9GW070004	9GW070004-F	9GW1000004
9GW1000004-F	9GW440004	9GW550004
9GW550004-F	9GW57S0004	9GW57S0004-F
9GW580004	9GW580004-F	9GW750004
9GW750004-F		

Overview

The sample set for SDG WO078, NSWC White Oak, consists of twenty-eight (28) aqueous environmental samples. Two (2) field duplicate pairs (13GW010004 / 13GW019904 and 13GW010004-F / 13GW019904-F) were included within this SDG.

All samples, with exception to those designated –F, were analyzed for target analyte list (TAL) metals and cyanide. The samples designated with –F were analyzed for dissolved target analyte list (TAL) metals. The samples were collected by Tetra Tech NUS on October 23-27, 1999 and analyzed by Quanterra Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. Metals and cyanide analyses were conducted using CLP ILM03.0/4.0 methodology.

Summary

All analytes were successfully analyzed. The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, calibration data, laboratory method/preparation blanks, interference check sample (ICS) results, matrix spike results, post digestion spike recoveries, laboratory duplicate results, field duplicate results, laboratory control sample (LCS) results, ICP serial dilution results, detection limits and analyte quantitation.

All TAL metals analyses, with the exception of mercury, were conducted using Inductively Coupled Plasma (ICP) methodologies. Mercury analyses were conducted using cold vapor AA.

Areas of concern with respect to data quality are listed below.

Minor Problems

- The Contract Required Detection Limit (CRDL) Percent Recoveries (%Rs) for cadmium and copper were <90% quality control limit. The positive results <2X CRDL and the nondetected results reported for cadmium and copper were qualified as biased low, "L" and "UL", respectively.

- The CRDL %Rs for selenium were both above and below the 90-110% quality control limits. The positive results <2X CRDL and the nondetected results reported for selenium were qualified as estimated, "J" and "UJ", respectively.

- The following contaminants were detected in the laboratory method / preparation blanks at the following maximum concentrations :

Samples Affected: All

Analyte	Maximum Concentration	Action Level(aqueous)
Aluminum	87.7µg/L	438.5µg/L
Barium	1.7µg/L	8.5µg/L
Beryllium	1.8µg/L	9.0µg/L
Calcium	89.4µg/L	447µg/L
Iron	48.7µg/L	243.5µg/L
Magnesium	90µg/L	450µg/L
Manganese	1.8µg/L	9.0µg/L
Sodium(1)	46.5µg/L	232.5µg/L
Thallium(1)	8.1µg/L	40.5µg/L
Zinc(1)	5.1µg/L	25.5µg/L

(1) Maximum concentration present in an aqueous preparation blank.

An action level of 5x the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration when evaluating for blank contamination. The positive results < the action level for aluminum, beryllium, iron, manganese, thallium and zinc were qualified, "B", as a result of blank contamination. No validation action was required for the remaining analytes since either the results were greater than the action level or were nondetects.

- The Matrix Spike (MS) Percent Recoveries (%Rs) for thallium affecting the all samples were <75% quality control limit. The nondetected results reported for thallium were qualified as biased low, "UL".

- The ICP Serial Dilution Percent Difference (%D) for manganese was >10% quality control limit affected the dissolved metals. The positive results reported for manganese in the affected samples were qualified as estimated, "J". The direction of bias could not be determined.

Notes

A comparison of field duplicate pairs (13GW010004 / 13GW019904 and 13GW010004-F / 13GW019904-F) is included in Appendix C.

The CRDL %R for thallium was >110% quality control limit. However, all results reported for thallium were either nondetected or qualified, "B" as a result of blank contamination. Therefore, no validation action was required.

The post digestion spike recoveries for thallium were >125% quality control limit affecting all samples. However, no validation action is required per regional guidance.

Executive Summary

Laboratory Performance: The CRDL %Rs for several analytes were outside the 90-110% quality control limit. Several analytes were present in the laboratory method/preparation blanks.

Other Factors Affecting Data Quality: The MS %Rs for thallium were <75% quality control limit affecting all samples. The ICP Serial Dilution %D for manganese was >10% quality control limit affecing the dissolved metals.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Validation", April 1993 Revision as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Chemical Data Quality Manual" (NFESC 6/98).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Gretchen A Phipps

Tetra Tech NUS
Gretchen A. Phipps
Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

PITT-12-9-205

TO :	**R. KOTUN**	**DATE:**	**FEBRUARY 29, 2000**
FROM:	**JENNIFER M. MALLE**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION –TAL METALS, DISSOLVED TAL METALS, CYANIDE AND TPH**
CTO 298 – NSWC WHITE OAK, MD
SAMPLE DELIVERY GROUP SDG – WO077

SAMPLES: 17/Aqueous/

2GW1000004	2GW1000004-F	2GW1010004
2GW300004	2GW300004-F	2GW309904
2GW309904-F	2GW760004	3GW1070004
3GW1070004-F	3GW170004	3GW170004-F
3GW190004	3GW470004	3GW470004-F
BGW1020004	BGW1020004-F	

Overview

The sample set for SDG WO077, NSWC White Oak, consists of seventeen (17) aqueous environmental samples. Two field duplicate pairs (2GW309904/2GW30004 and 2GW309904-F/2GW30004-F) were included within this SDG.

All samples, with exception to those designated -F, were analyzed for target analyte list (TAL) metals and cyanide. The samples designated with -F were analyzed for dissolved TAL metals. In addition, all samples, with the exception to 3GW1070004 and those designated -F, were analyzed for Total Petroleum Hydrocarbons (TPH). The samples were collected by Tetra Tech NUS on October 21 and 22 and analyzed by Quanterra Laboratories under Naval Facilities Engineering Service Center (NFESC) Navy Installation Restoration Laboratory Quality Assurance Guide (February 1996). Metals and cyanide analyses were conducted using CLP ILM04.0 methodology. Analyses for TPH were conducted under EPA method 418.1.

All TAL metals analyses, with the exception of mercury, were conducted using Inductively Coupled Plasma (ICP) methodologies. Mercury analyses were conducted using Cold Vapor AA.

Summary

All analytes were successfully analyzed. The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, calibration data, laboratory method/preparation blanks, interference check sample (ICS) results, matrix spike results, laboratory duplicate results, laboratory control sample (LCS) results, ICP serial dilution results, field duplicate results, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems

- None.

Minor Problems

- The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations :

Samples Affected: All

Analyte	Maximum Concentration	Action Level (aqueous)
Aluminum [1]	129.12 ug/L	645.6 ug/L
Barium	1.2 ug/L	6.0 ug/L
Beryllium	1.2 ug/L	6.0 ug/L
Cadmium	0.4 ug/L	2.0 ug/L
Calcium [1]	180.1 ug/L	900.5 ug/L
Chromium [1]	0.94 ug/L	4.7 ug/L
Cobalt [1]	1.25 ug/L	6.25 ug/L
Cyanide	5.0 ug/L	25 ug/L
Iron [1]	65.27 ug/L	326.35 ug/L
Magnesium	125.3 ug/L	626.5 ug/L
Manganese [1]	2.528 ug/L	12.64 ug/L
Nickel	1.7 ug/L	8.5 ug/L
Potassium	100 ug/L	500 ug/L
Silver	0.9 ug/L	4.5 ug/L
Sodium	137.8 ug/L	689 ug/L
Thallium	5.5 ug/L	27.5 ug/L
Vanadium	0.9 ug/L	4.5 ug/L
Zinc	5.8 ug/L	29 ug/L

[1] – Maximum concentration present in a preparation blank

An action level of 5x the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration when evaluating for blank contamination. The positive results less than the action level for aluminum, beryllium, cadmium, chromium, cobalt, cyanide, iron, nickel, silver, thallium, vanadium and zinc were qualified, "B", as a result of blank contamination. No validation action was required for the remaining analytes since either the results were greater than the action level or were qualified nondetected by the laboratory.

- The interfering analyte calcium was present in samples 2GW1000004 and 2GW1000004-F at a concentration which was comparable to the level of calcium in the Interference Check Sample (ICS) solution. Several analytes namely barium, cadmium, cobalt, copper, manganese, nickel, potassium, selenium, silver, sodium and vanadium were present in the ICS solution at concentrations which exceeded the Instrument Detection Limit (IDL). Interference affects exist for copper and vanadium in the affected samples. The nondetected results reported for vanadium were qualified as biased low "UL". The positive results reported for copper were qualified as biased high, "K".

- Field duplicate imprecision (greater than the difference of 2x CRDL) for iron was noted affecting the total metals. Positive results reported for iron in the affected samples were qualified as estimated, "J".

Notes

The Contract Required Detection Limit (CRDL) Percent Recovery (%R) for manganese was greater than the 110% quality control limits. However, no validation action was taken since the results reported were greater than 2x the CRDL value reported for manganese.

The Form 1's for the metals and miscellaneous parameters listed abbreviated sample ID's. The complete sample ID's were added to the Form 1's by the data reviewer.

The incorrect reporting limits for beryllium were reported on the Electronic Deliverable Data (EDD). Changes were made to the EDD by the data reviewer to reflect the correct reporting limit.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method/ preparation blanks.

Other Factors Affecting Data Quality: Field duplicate imprecision was noted for iron affecting the total metals. The interfering analyte calcium was present in two samples.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Validation", April 1993 Revision as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Laboratory Quality Assurance Guide" (NFESC 2/96).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Jennifer M. Matte
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

TETRA TECH NUS, INC.

INTERNAL CORRESPONDENCE

EPC-00-005

TO: R. KOTUN

DATE: MARCH 8, 2000

FROM: KATE LANDKROHN

COPIES: DV FILE

SUBJECT: ORGANIC DATA VALIDATION – TCL VOA/SVOA/PEST/PCB/EXP/TPH
CTO 298 - NSWC WHITE OAK, MARYLAND
SDG WO079

SAMPLES: 21 Aqueous

13GW040004	13GW049904	9GW010004	9GW020004
9GW030004	9GW040004	9GW050004	9GW060004
9GW069904	9GW1010004	9GW1020004	9GW1080004
9GW440004	9GW560004	9GW57D0004	9GW590004
9GW830004	9GWBLD3670004	TB102899-00-04	TB102999-00-04
TB110199-00-04			

Overview

The sample set for CTO 298, NSWC White Oak, Maryland, SDG WO079 consists of eighteen (18) aqueous samples and three (3) trip blanks. The field crew designated sample 9GWBLD3670004 for Matrix Spike/Matrix Spike Duplicate (MS/MSD) analysis. Field duplicate pairs 13GW040004/13GW049904 and 9GW060004/9GW069904 were included in this SDG. All samples, with the exception of the trip blanks and sample 9GW440004, were analyzed for volatile, semivolatile, pesticide/PCB, explosive, and total petroleum hydrocarbons organic compounds. The trip blanks were analyzed for volatile organic compounds. Sample 9GW440004 was analyzed for explosive organic compounds and total petroleum hydrocarbons.

The samples were collected by Tetra Tech NUS, Inc. on October 27, 28, and 29, 1999 and November 1 and 2, 1999. The volatile, semivolatile, pesticide/PCB, explosive, and total petroleum hydrocarbons fractions were analyzed by Quanterra Environmental Services-Pittsburgh under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. The explosives fraction was analyzed by Quanterra Environmental Services-Knoxville using NFESC QA/QC criteria as well. Volatile and semivolatile analyses were conducted using the USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration method OLC02.1. Pesticide/PCB analyses were conducted using the USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration method OLM03.1. Explosive analyses were conducted using the "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, method 8330. Total petroleum hydrocarbons were analyzed using the 1) "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, method 8015B, and 2) "Methods for Chemical Analysis of Water and Wastes," method 418.1.

Summary

All compounds were successfully analyzed with the exception of those results qualified as rejected. The findings offered in this report are based upon a general review of all available data including data completeness, holding times until analysis, GC/MS tuning and calibration data, laboratory and field blank results, surrogate spike recoveries, laboratory control sample results, internal standards performance, tentatively identified compounds, compound identification and compound quantitation. Areas of concern with respect to data quality are listed below.

Major Problems

- Initial and continuing calibration relative response factors (RRFs) were less than 0.05 for 1,2-dibromo-3-chloropropane, 2-butanone, and acetone. In addition, the initial calibration percent relative standard deviation (%RSD) for 1,2-dibromo-3-chloropropane was greater than the 30% quality control limit. Nondetected results for the aforementioned compounds were rejected, (UR), and positive results were biased low, (L).

Minor Problems

- The following table summarizes the maximum concentration of volatile and semivolatile compounds detected in the low level laboratory method and field quality control blanks* analyzed in this SDG:

Compounds	Maximum Concentration	Action Level
Acetone*	4.9 ug/L	49 ug/L
Chloroform	0.10 ug/L	0.50 ug/L
Methylene chloride*	0.60 ug/L	6.0 ug/L
Toluene*	0.10 ug/L	0.50 ug/L

Samples Affected: All

The aliquots used for analysis, and dilution factors were considered during the application of the action level. Positive results for acetone, methylene chloride, and chloroform reported less than the action level have been qualified as nondetected, (B). It should be noted that field quality control blanks are not qualified based on laboratory method blank contamination.

- Positive results reported below the Contract Required Quantitation Limit (CRQL) are qualified as estimated, (J).

Notes

Samples 13GW04-00-04 and 13GW04-99-04 were diluted by a factor of 10 for volatile organic compound analysis. Sample 9GW59-00-04 was diluted by a factor of 2 for volatile organic compound analysis. In all cases the detection limits were elevated to account for the dilution.

Samples 9GW101-00-04 and 9GW56-00-04 were diluted by a factor of 20 and 3, respectively, for explosive organic compound analysis. In both cases the detection limits were elevated to account for the dilution.

The initial calibration %RSD for chloroethane was greater than the 30% quality control limit. No action was taken since all sample results were reported nondetected for this compound.

The continuing calibration %Ds for bromomethane, carbon disulfide, chloroethane, 1,1-dichloroethene, 1,2-dibromomethane, bromochloromethane, and 1,2,4-trichlorobenzene were greater than the 25% quality control limit. No action was taken since all sample results were nondetected for the aforementioned compounds.

The continuing calibration %D for 2,4-dinitrophenol exceeded the 25% quality control limit. No action was taken since all sample results were nondetected for the aforementioned compound.

The Matrix Spike/Matrix Spike Duplicate (MS/MSD) results for total petroleum hydrocarbons exceed the upper quality control limit. The Laboratory control Samples are within the required limits. No action is taken based solely on this MS/MSD noncompliance.

The compound carbazole is included in the results for semivolatile fraction; it was not included in the Statement of Work.

No other problems were noted.

Executive Summary

Laboratory Performance: Initial and continuing calibration RRFs were less than 0.05 for 1,2-dibromo-3-chloropropane, 2-butanone, and acetone. In addition, the initial calibration %RSD for 1,2-dibromo-3-chloropropane was greater than the 30% quality control limit.

Other Factors Affecting Data Quality: Several volatile compounds were present in the laboratory and quality control blanks.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Data Validation" (9/94), as amended for use within EPA Region III, and the NFESC guidelines entitled, "Navy Installation Restoration Laboratory Quality Assurance Guide" (NFESC 2/96).

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS, Inc.
Kate Landkrohn
Environmental Scientist

Tetra Tech NUS, Inc.
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO :	**R. KOTUN**	**DATE:**	**MARCH 9, 2000**
FROM:	**GRETCHEN A. PHIPPS**	**COPIES:**	**DV FILE**

SUBJECT: **MISCELLANEOUS DATA VALIDATION –TPH**
CTO 298 – NSWC WHITE OAK, MD
SAMPLE DELIVERY GROUP SDG – WO076

SAMPLES: 18/Aqueous/

11GW1050004	11GW1059904	11GW1060004
11GW1080004	11GW1090004	11GW1100004
11GW1110004	11GW870004	2GW1020004
2GW1030004	2GW1040004	2GW1050004
2GW310004	2GW320004	2GW450004
3GW770004	BGW1010004	3GW1070004

Overview

The sample set for SDG WO076, NSWC White Oak, consists of eighteen (18) aqueous environmental samples. One (1) field duplicate pair (11GW1050004 / 11GW1059904) was included within this SDG.

All samples were analyzed for total petroleum hydrocarbons (TPH). The samples were collected by Tetra Tech NUS on October 15 and 18-20, 1999 and analyzed by Quanterra Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. TPH analyses were conducted using EPA MCAWW method 418.1.

Summary

All analytes were successfully analyzed. The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, calibration data, laboratory method blanks, results, matrix spike results, laboratory duplicate results, field duplicate results, laboratory control sample (LCS) results, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Minor Problems

- The following contaminants were detected in the laboratory method blanks at the following maximum concentrations :

Samples Affected: All

Analyte	Maximum Concentration	Action Level(aqueous)
TPH	3.2 mg/L	16.0 mg/L

An action level of 5x the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration when evaluating for blank contamination. No validation action was required as the results were nondetects.

Executive Summary

Laboratory Performance: TPH was present in a method blank.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Validation", April 1993 Revision as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Chemical Data Quality Manual" (NFESC 6/98).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Gretchen A. Phipps

Tetra Tech NUS
Gretchen A. Phipps
Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO :	**R. KOTUN**	**DATE:**	**FEBRUARY 29, 2000**
FROM:	**GRETCHEN A. PHIPPS**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION –TAL METALS, DISSOLVED TAL METALS AND CYANIDE**
CTO 298 – NSWC WHITE OAK, MD
SAMPLE DELIVERY GROUP SDG – WO080

SAMPLES: 23/Aqueous/

4GW1000004	4GW1000004-F	4GW1040004
4GW1040004-F	4GW500004	4GW500004-F
5GW010004	9GW1030004	9GW1039904
9GW1040004	9GW1040004-F	9GW1050004
9GW1050004-F	9GW1060004	9GW1070004
9GW1090004	9GW1090004-F	9GW1100004
9GW440004	9GW740004	9GW740004-F
9GWC50004	9GWC59904	

Overview

The sample set for SDG WO080, NSWC White Oak, consists of twenty-three (23) aqueous environmental samples. Two (2) field duplicate pairs (9GW1030004 / 9GW1039904 and 9GWC50004 / 9GWC59904) were included within this SDG.

All samples, with exception to sample 9GW440004 and those samples designated –F, were analyzed for target analyte list (TAL) metals and cyanide. The samples designated with –F were analyzed for dissolved target analyte list (TAL) metals. Sample 9GW440004 was analyzed for cyanide only. The samples were collected by Tetra Tech NUS on November 2-4, 1999 and analyzed by Quanterra Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. Metals and cyanide analyses were conducted using CLP ILM03.0/4.0 methodology.

Summary

All analytes were successfully analyzed. The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, calibration data, laboratory method/preparation blanks, interference check sample (ICS) results, matrix spike results, post digestion spike recoveries, laboratory duplicate results, field duplicate results, laboratory control sample (LCS) results, ICP serial dilution results, detection limits and analyte quantitation.

All metals analyses, with the exception of mercury, were conducted using Inductively Coupled Plasma (ICP) methodologies. Mercury analyses were conducted using cold vapor AA.

Areas of concern with respect to data quality are listed below.

Minor Problems

- The Contract Required Detection Limit (CRDL) Percent Recoveries (%Rs) for iron, cadmium and potassium were >110% quality control limit. The positive results <2X CRDL reported for iron, cadmium and potassium were qualified as biased high, "K".

- The CRDL %Rs for selenium and thallium were both above and below the 90-110% quality control limits. The nondetected results reported for selenium and thallium were qualified as estimated, "UJ".

- The following contaminants were detected in the laboratory method / preparation blanks at the following maximum concentrations :

Samples Affected: All

Analyte	Maximum Concentration	Action Level(aqueous)
Aluminum	21.0µg/L	105µg/L
Barium	0.41µg/L	2.05µg/L
Beryllium	0.33µg/L	1.65µg/L
Calcium[1]	125µg/L	625µg/L
Copper[1]	3.0µg/L	15.0µg/L
Iron[1]	11.0µg/L	55.0µg/L
Manganese	0.87µg/L	4.35µg/L
Sodium[1]	69.0µg/L	345µg/L
Thallium[1]	8.9µg/L	44.5µg/L
Zinc[1]	8.6µg/L	43.0µg/L

[1] Maximum concentration present in an aqueous preparation blank.

An action level of 5x the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration when evaluating for blank contamination. The positive results < the action level for aluminum, beryllium, copper, iron, thallium and zinc were qualified, "B", as a result of blank contamination. No validation action was required for the remaining analytes since either the results were greater than the action level or were nondetects.

Notes

A comparison of field duplicate pairs (9GW1030004 / 9GW1039904 and 9GWC50004 / 9GWC59904) is included in Appendix C.

The Matrix Spike (MS) Percent Recovery (%R) for selenium affecting the filtered samples was >125% quality control limit. However, all results reported for selenium in the affected samples were nondetected. Therefore, no validation action was required.

Executive Summary

Laboratory Performance: The CRDL %Rs for several analytes were outside the 90-110% quality control limit. Several analytes were present in the laboratory method/preparation blanks.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Validation", April 1993 Revision as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Chemical Data Quality Manual" (NFESC 6/98).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Gretchen A. Phipps

Tetra Tech NUS
Gretchen A. Phipps
Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO :	**R. KOTUN**	**DATE:**	**MARCH 7, 2000**
FROM:	**GRETCHEN A. PHIPPS**	**COPIES:**	**DV FILE**

SUBJECT: **MISCELLANEOUS DATA VALIDATION – AMMONIA AND PERCHLORATE**
CTO 298 – NSWC WHITE OAK, MD
SAMPLE DELIVERY GROUP SDG – 996691

SAMPLES: 29/Aqueous/

13GW040004	13GW049904	4GW1000004
4GW1040004	4GW1050004	4GW1060004
4GW1070004	4GW1080004	4GW1100004
4GW120004	4GW500004	4GW81S0004
4GW820004	5GW010004	9GW1010004
9GW1030004	9GW1039904	9GW1040004
9GW1050004	9GW1060004	9GW1070004
9GW1090004	9GW1100004	9GW440004
9GW740004	9GWBLD367-00-04	9GWC50004
9GWC59904	BGW160004	

Overview

The sample set for SDG 996691, NSWC White Oak, consists of twenty-nine (29) aqueous environmental samples. Three (3) field duplicate pairs (13GW040004 / 13GW049904, 9GW1030004 / 9GW1039904 and 9GWC50004 / 9GWC59904) were included within this SDG.

The samples were analyzed for ammonia and perchlorate. The samples were collected by Tetra Tech NUS on November 1-5, 1999 and analyzed by Applied Physics and Chemistry Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. Ammonia analyses were conducted using EPA method 350.2. Perchlorate analyses were conducted using EPA method 300.0.

Summary

All analytes were successfully analyzed. The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, calibration data, laboratory method/preparation blanks, matrix spike results, laboratory duplicate results, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems

- None

Minor Problems

- None.

Notes

Several samples were analyzed at a dilution. Therefore, the reporting limits were elevated. A summary with dilution factors is included in Appendix C.

A comparison of field duplicate pairs (13GW040004 / 13GW049904, 9GW1030004 / 9GW1039904 and 9GWC50004 / 9GWC59904) is included in Appendix C.

Chain of Custody reports were not available for this SDG when the data validaiton letter was written.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Validation", April 1993 Revision as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Chemical Data Quality Manual" (NFESC 6/98).

The text of this report has been formulated to address only those problem areas affecting data quality.

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Gretchen A. Phipps

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Gretchen A. Phipps
Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
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Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**RON KOTUN**	**DATE:**	**MARCH 16, 2000**
FROM:	**SEAN NIXON**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOAS, SVOAS, PESTICIDES/PCBS, TPH AND EXPLOSIVES**
CTO 298 NSWC WHITE OAK, MARYLAND
SDG – WO076

SAMPLES: 22/Aqueous
11GW1050004 11GW1059904 11GW1060004 11GW1080004 11GW1090004
11GW1100004 11GW1110004 11GW870004 2GW1020004 2GW1030004
2GW1040004 2GW1050004 2GW310004 2GW320004 2GW450004
3GW1070004 3GW770004 BGW1010004 TB1015990004 TB1018990004
TB1019990004 TB1020990004

Overview

The sample set for CTO 298 NSWC White Oak, Maryland SDG WO076, consists of twenty-two (22) aqueous environmental samples including four (4) trip blanks.

All of the samples were analyzed for selected Target Compound List (TCL) Low Concentration volatiles. All of the samples except the trip blanks were analyzed for TCL Low Concentration semivolatiles, TCL pesticides/PCBs, and extracatable Petroleum Hydrocarbons (TPH). All of the samples except the 9GW440004 and the trip blanks were analyzed for TCL explosives. The samples were collected by Tetra Tech NUS on November 4-5, 8, 1999 and analyzed by Quanterra – North Canton (VOA, SVOA, PEST/PCB, TPH), and Knoxville (Explosives), Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. The VOAs and SVOAs analyses were conducted according to Contract Laboratory Procedure (CLP) OLC02.1, the pesticides/PCBs according to CLP OLM03.1, and the explosives and TPH analyses were analyzed according to SW-846 Methods 8330 and 8015B.

Summary

All analytes were successfully analyzed with the exception of those compounds that were rejected. The findings offered in this report were based upon a general review of all available data including data completeness, holding times, calibration data, laboratory and field quality control blank results, GC/MS tuning and performance, Matrix Spike (MS)/ Matrix Spike Duplicate (MSD) analyses, surrogate spike recoveries, Laboratory Control Sample (LCS) analyses, field duplicate results, compound identification and quantification, and detection limits.

Areas of concern with respect to data quality are listed below.

MAJOR PROBLEMS

Volatiles

- The initial calibration contained Relative Response Factors (RRFs) below the 0.05 quality control limit for 2-butanone and acetone. The nondetected results for the aforementioned compounds were rejected, UR, in the affected samples (all samples).

MINOR PROBLEMS

Volatiles

- The following contaminants were detected in the preparation blank/trip blanks:

Analyte	Maximum Concentration	Aqueous Action level
Methylene chloride	0.6 ug/L	6.0 ug/L
Styrene	0.3 ug/L	1.5 ug/L
Toluene	0.1 ug/L	0.5 ug/L
1,2-dichlorobenzene	0.1 ug/L	0.5 ug/L
1,3-dichlorobenzene	0.08 ug/L	0.4 ug/L
1,4-dichlorobenzene	0.2 ug/L	1.0 ug/L

Samples Affected: All.

Sample aliquot and dilution factors were taken into consideration when applying the action level. Positive results for methylene chloride, 1,4,-dichlorobenzene, and toluene reported below the action levels were considered false positives and were qualified, (B). It should be noted that field quality control blanks were not qualified for blank contamination.

Semivolatiles

- The following contaminant was detected in the preparation blank.

Analyte	Maximum Concentration	Aqueous Action level
Bis(2-ethylhexyl)phthalate	4 ug/L	40 ug/L

Samples Affected: All.

Sample aliquot and dilution factors were taken into consideration when applying the action level. Positive results for Bis(2-ethylhexyl)phthalate reported below the action level were considered false positives and were qualified, (B).

Pesticides/PCBs

- Samples 2GW1020004, 3GW1070004, and 3GW770004 yielded surrogate recoveries below the 60% quality control limit for decachlorobiphenyl on both analytical columns. The nondetected results were qualified as estimated, UJ, in the aforementioned samples.

TPH

- As a result of blank contamination, the samples for TPH analysis were re-extracted (in exceedance of the holding time) and reanalyzed. The re-extracted analyses were used for data validation. The positive and nondetected results for TPH were qualified as estimated, J and UJ.

Notes

Positive results reported below the Contract Required Quantitation Limits (CRQL) were qualified as estimated, (J).

The volatile continuing calibration verifications of 10/26/99 contained Percent Differences (%Ds) above the 25% quality control limit for bromomethane and 2-hexanone. Because only nondetected results were reported for the aforementioned compounds in the affected samples, no action was taken.

The volatile continuing calibration verification of 10/27/99 contained a %D above the 25% quality control limit for carbon tetrachloride. Because only nondetected results were reported for the aforementioned compound in the affected samples, no action was taken.

The semivolatile continuing calibration of 10/28/99 contained %Ds above the 25% quality control limit for 4-nitroaniline and 3,3'-dichlorobenzidine. Because only nondetected results were reported for the aforementioned compounds in the affected samples, no action was taken.

The semivolatiles continuing calibration of 10/29/99 contained a %D above the 25% quality control limit for 3,3'-dichlorobenzidine. Because only nondetected results were reported for the aforementioned compound in the affected samples, no action was taken.

The semivolatile surrogates nitrobenzene-d5 and 2-fluorophenol in sample 2GW320004 were less than the quality control limits. Because only one surrogate of both fractions was noncompliant, no action was taken.

A pesticide/PCB continuing calibration contained a %D above the 15% quality control limit for methoxychlor on one column, but no action was taken because the %D for methoxychlor on the other column was within quality control criteria.

The TPH LCSs yielded recoveries above the quality control limit. No action was taken for LCS noncompliances.

Executive Summary

Laboratory Performance: Nondetected results for acetone and 2-butanone were rejected for a gross calibration noncompliance. Blank contamination was noted for methylene chloride, 1,4,-dichlorobenzene, toluene, TPH and bis(2-ethylhexyl)phthalate.

Other Factors Affecting Data Quality: Low pesticide surrogate recoveries resulted in the estimation of nondetected results in samples 2GW102, 3GW107, and 3GW77.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Data Validation", September 1994 Revision as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Laboratory Quality Assurance Guide " (NFESC 2/96).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Sean T. Nixon
Environmental Scientist
Tetra Tech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer
Tetra Tech NUS

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation.

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**RON KOTUN**	**DATE:**	**MARCH 16, 2000**
FROM:	**SEAN NIXON**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOAS, SVOAS, PESTICIDES/PCBS, TPH AND EXPLOSIVES**
CTO 298 NSWC WHITE OAK, MARYLAND
SDG – WO081

SAMPLES: 16/Aqueous

4GW1050004	4GW1060004	4GW1070004	4GW1080004	4GW1100004	4GW120004
4GW130004	4GW150004	4GW49D0004	4GW81S0004	4GW820004	9GW440004
9GWC60004	BG160004	TB1105990004	TB1108990004		

Overview

The sample set for CTO 298 NSWC White Oak, Maryland SDG WO081consists of sixteen (16) aqueous environmental samples including two (2) trip blanks.

All of the samples except 9GW440004 were analyzed for selected Target Compound List (TCL) Low Concentration volatiles. All of the samples except the trip blanks were analyzed for TCL Low Concentration semivolatiles, TCL pesticides/PCBs, and extracatable Petroleum Hydrocarbons (TPH). All of the samples except 9GW440004 and the trip blanks were analyzed for TCL explosives. The samples were collected by Tetra Tech NUS on November 4-5, 8, 1999 and analyzed by Quanterra – Pittsburgh (VOA, SVOA, PEST/PCB), Knoxville (Explosives), and North Canton (TPH) under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. The VOAs and SVOAs analyses were conducted according to Contract Laboratory Procedure (CLP) OLC02.1, the pesticides/PCBs according to CLP OLM03.1, and the explosives and TPH analyses were analyzed according to SW-846 Methods 8330 and 8015B.

Summary

All analytes were successfully analyzed with the exception of those compounds that were rejected. The findings offered in this report were based upon a general review of all available data including data completeness, holding times, calibration data, laboratory and field quality control blank results, GC/MS tuning and performance, Matrix Spike (MS)/ Matrix Spike Duplicate (MSD) analyses, surrogate spike recoveries, Laboratory Control Sample (LCS) analyses, field duplicate results, compound identification and quantification, and detection limits.

Areas of concern with respect to data quality are listed below.

MAJOR PROBLEMS

Volatiles

- The initial and continuing calibrations contained Relative Response Factors (RRFs) below the 0.05 quality control limit for 1,2-dibromo-3-chloropropane, 2-butanone, and acetone. The nondetected results for the aforementioned compounds were rejected, UR, in the affected samples (all samples).

MINOR PROBLEMS

Volatiles

- The continuing calibration verifications of 11/05/99 and 11/08/99 contained Percent Differences (%Ds) above the 50% quality control limit for chloroethane. The nondetected results for chloroethane were qualified as estimated, UJ, in the affected samples (4GW82, 4GW108, 4GW110, BG16).

- The continuing calibration verification of 11/10/99 contained %Ds above the 50% quality control limit for chloroethane. The nondetected results for chloroethane were qualified as estimated, UJ, in the affected samples (TB1108, 4GW15, 4GW49D, 9GWC6).

Notes

Positive results reported below the Contract Required Quantitation Limits (CRQL) were qualified as estimated, (J).

The volatile analysis of sample 4GW105 was performed at a dilution because of elevated concentrations of some target analytes and no undiluted analysis was performed. Therefore, elevated detection limits were reported in the aforementioned sample.

Sample 4GW130004 was analyzed for volatiles on 11/10/99 and reanalyzed on 11/16/99. Both the original analysis and the reanalysis were free of noncompliances. The laboratory reported results from the reanalysis only and no explanation for the reanalysis was made in the case narrative.

The pesticide/PCB analysis of sample 9GW440004 yielded a surrogate recovery above the quality control limit for tetrachloro-m-xylene on only one column. Because only one column reported a noncompliant surrogate recovery, no action was taken.

Pesticide/PCB continuing calibration verification %Ds were noted above the 15% quality control limit on column DB608 (11/09/99 – 2003 and 2031 hours) for several compounds. Because the same continuing calibration verifcation did not contain %Ds above 15% on column DB1701, no action was taken.

Sample 4GW105 reported an elevated detection limit for the explosive compound 3-nitrotoluene for matrix interefernces according to the case narrative.

The explosives analyses of samples 4GW105 and 4GW107 yielded surrogate recoveries above the quality control limit for 1-chloro-3-nitrobenzene. Because only nondetected results were reported for explosives in the aforementioned samples, no action was taken for the high surrogate recoveries.

Executive Summary

Laboratory Performance: Nondetected results for acetone, 2-butanone, and 1,2-dibromo-3-chloropropane were rejected for gross calibration noncompliances. Nondetected results for chloroethane were estimated for continuing calibration verification noncompliances.

Other Factors Affecting Data Quality: Elevated detection limits were reported for the volatiles results and for the explosive compound 3-nitrotoluene for sample 4GW105.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Data Validation", September 1994 Revision as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Laboratory Quality Assurance Guide " (NFESC 2/96).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Sean T. Nixon
Environmental Scientist
Tetra Tech NUS

Joseph A. Samonuck
Data Validation Quality Assurance Officer
Tetra Tech NUS

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation.

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

PITT-12-9-179

TO :	**R. KOTUN**	**DATE:**	**MARCH 10, 2000**
FROM:	**GRETCHEN A. PHIPPS**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION –VOLATILES, SEMIVOLATILES, PESTICIDES/PCBs, EXPLOSIVES AND TPH**
CTO 298 – NSWC WHITE OAK, MD
SAMPLE DELIVERY GROUP SDG – WO073

SAMPLES: 19/Aqueous/

7GW080004	7GW1010004	7GW1020004
7GW1030004	7GW1039904	7GW1040004
7GW1050004	7GW410004	8GW330004
8GW340004	8GW350004	8GW360004
8GW530004	8GWB10004	8GWB30004
BGW1000004	TB100599-00-04	TB100699-00-04
TB100799-00-04		

Overview

The sample set for CTO 298 SDG WO073, NSWC White Oak, consists of sixteen (16) aqueous environmental samples and three (3) trip blanks (TB100599-00-04, TB100699-00-04 and TB100799-00-04). One (1) field duplicate pair (7GW1030004 / 7GW1039904) was included within this SDG.

All aqueous environmental samples, with exception to samples 7GW1040004, 8GWB30004 and BGW100004, were analyzed for target compound list (TCL) volatile organic, TCL semivolatile organics, pesticides/PCBs, explosives, total recoverable petroleum hydrocarbons (TRPH) and total petroleum hydrocarbons (TPH) as diesel. Sample 7GW1040004 was analyzed for all parameters except TPH as diesel. Sample BGW1000004 was analyzed for all parameters except TRPH. Sample 8GWB30004 and the trip blanks were analyzed for volatile organic only. The samples were collected by Tetra Tech NUS on October 5-7, 1999 and analyzed by Quanterra Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. Volatile and semivolatile analyses were conducted using CLP SOW method OLC02.1. Pesticide/PCB analyses were conducted using CLP SOW method OLM03.2. Explosive analyses were conducted using SW 846 method 8330. TRPH analyses were conducted using EPA method 418.1. TPH as diesel analyses were conducted using SW 846 method 8015B.

Summary

All analytes, with exception to those results that were qualified as rejected, were successfully analyzed. The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, GC/MS tuning and system performance, initial/continuing calibration, laboratory method blanks, field quality control blanks, surrogate spike recoveries, matrix spike/ matrix spike duplicate results, blank spike/blank spike

Compound	Maximum Concentration	Action Level
Acetone	1.3µg/L	13.0µg/L
Chloroform	0.16µg/L	0.8µg/L
Chloromethane	0.38µg/L	1.9µg/L
Methylene Chloride	0.31µg/L	3.1µg/L
Toluene	0.19µg/L	1.9µg/L

An action level of 5x or 10X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration when evaluation for blank contamination. Positive results < the action levels for acetone, chloroform, chloromethane and toluene were qualified as, "B", as a result of blank contamination. No validation action was required for the remaining compounds as all results reported were nondetected. It should be noted that field quality control blanks are not qualified for field or laboratory blank contamination.

- The following semivolatile contaminant was present in the laboratory method blanks at the following maximum concentration:

Compound	Maximum Concentration	Action Level
Bis(2-ethylhexyl)phthalate)	1.0µg/L	5.0µg/L

An action level of 5x the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration when evaluation for blank contamination. Positive results < the action levels for bis(2-ethylhexyl)phthalate were qualified as, "B", as a result of blank contamination.

- The %D between columns for gamma-chlordane in sample 7GW1010004 was >25% quality control limit. The positive result reported for gamma-chlordane in the affected sample was qualified as estimated, "J".

- All positive results reported at concentrations less than the Contract Required Quantitation Limit (CRQL) were qualified as estimated, "J".

Notes

Total 1,2-dichloroethene was reported as cis and trans.

Several Tentatively Identified Compound (TIC) were reported in the volatile and semivolatile samples and blanks. No validation action was taken.

The Matrix Spike (MS) / Matrix Spike Duplicate (MSD) Percent Recoveries (%Rs) for HMX and RDX affecting sample 7GW1050004 were less than the lower quality control limit. However, no validation action was taken on this basis.

The MS %R for TPH as diesel affecting sample 7GW1050004 was greater than the upper quality control limit. However, no validaiton action was taken on this basis.

Comparisons of the positive results in the field duplicate pairs are included in Appendix C.

The TPH – diesel results for sample 7GW1040004 can be found with SDG WO076.

Executive Summary

Laboratory Performance: Bis(2-ethylhexyl)phthalate was present in the laboratory method blanks. Several RRFs for acetone, 2-butanone and 1,2-dibromo-3-chloropropane were <0.05 quality control limit. Several continuing calibration %Ds were >25% quality control limit.

Other Factors Affecting Data Quality: Several compounds were present in the trip blanks. The %D between columns for several compounds were >25% or >100% quality control limits affecting several samples. The %R for pesticide surrogate tetrachloro-m-xylene was 0% affecting samples 7GW1040004 and 7GW080004.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Data Validation", September 1994 Revision as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Laboratory Quality Assurance Guide" (NFESC 2/96).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Gretchen A Phipps

Tetra Tech NUS
Gretchen A. Phipps
Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO :	**R. KOTUN**	**DATE:**	**MARCH 10, 2000**
FROM:	**TERRI L. SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION –VOLATILE ORGANIC COMPOUNDS, SEMIVOLATILE ORGANIC COMPOUNDS, PESTICIDES, PCBs, EXPLOSIVES, PETROLEUM HYDROCARBONS**
CTO 298 – NSWC WHITEOAK, WHITE OAK, MARYLAND
SAMPLE DELIVERY GROUP SDG – WO077

SAMPLES: 12/Aqueous/

2GW1000004	2GW1010004	2GW300004	2GW309904
2GW760004	3GW170004	3GW190004	3GW470004
BGW1020004	3GW1070004	TB1021990004	TB1022990004

Overview

The sample set for CTO 298, SDG WO077, White Oak, consists of ten (10) aqueous environmental samples and two (2) trip blanks (TB1021990004 and TB1022990004). All samples, with the exception of 3GW1070004, TB1021990004 and TB1022990004 were analyzed for low level concentration volatile organic compounds (VOCs), low level concentration semivolatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), explosives, total petroleum hydrocarbons and total petroleum hydrocarbons-diesel. Samples TB1021990004 and TB1022990004 were analyzed for low level concentration volatile organic compounds only. Sample 3GW1070004 was analyzed for explosives and total petroleum hydrocarbons-diesel. One (1) field duplicate pair, 2GW300004 / 2GW309904, was included within this SDG.

The samples were collected by Tetra Tech NUS on October 21 and 22, 1999 and analyzed by Quanterra Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and OLC02.1, OLM03.1, SW-846 method 8330 and SW-846 method 8015B analytical and reporting protocols.

Summary

All analytes were successfully analyzed, with the exception of those designated as rejected, "UR". The findings offered in this report are based upon a general review of all available data including data completeness, holding times, instrument performance, initial / continuing calibrations, laboratory / field quality control blanks, surrogate recovery, matrix spike / matrix spike duplicate recoveries, check sample / check sample duplicate recoveries, field duplicates, internal standard recovery, compound identification, compound quantitation and detection limits.

Areas of concern with respect to data quality are listed below.

Major Problems

- Initial and continuing calibration relative response factors (RRFs) for acetone and 2-butanone were < 0.05 quality control limit. Nondetected results were qualified as rejected, "UR".

- The surrogate recoveries for phenol-d5 and 2-fluorophenol were < 10% quality control limit for sample 2GW309904. The surrogate recovery for 2,4,6-tribromophenol was below the quality control limits. The laboratory reanalyzed the sample with the same results. The original analysis was chosen for validation purposes. The nondetected results for the acid compounds in the affected sample were qualified as rejected, "UR".

Minor Problems

- The following compounds were detected in the laboratory method / field quality control(*) blanks at the following concentrations:

Compound	Level	Action Level
methylene chloride(*)	0.3 ug/L	3 ug/L
toluene(*)	0.1 ug/L	0.5 ug/L
1,4-dichlorobenzene(*)	0.7 ug/L	3.5 ug/L
total petroleum hydrocarbons-diesel	350 ug/L	1750 ug/L

  Dilution factors and sample aliquots were taken into consideration when applying action levels. Positive results for methylene chloride, toluene and 1,4-dichlorobenzene below the action level were qualified as false positives, "B". It should be noted that field quality control blanks are not qualified for laboratory method blank contamination.

- Positive results < Contract Required Quantitation Limit (CRQL) were qualified as estimated, "J".

Notes

It should be noted that the laboratory failed to analyze for the following compounds: 1,2-dibromo-3-chloropropane and 1,2,4-trichlorobenzene.

It should be noted that the laboratory analyzed for carbazole although it was not listed in the lab spec.

Samples 2GW1000004, 2GW1010004, 2GW309904, 2GW760004, 3GW170004, 3GW470004 and BGW1020004 were reextracted for the semivolatile analyses 6-7 days outside of holding time due to laboratory blank contamination (result for phenol was grossly high). The original data for samples 2GW1000004, 2GW309904 and 2GW760004 were chosen for validation purposes. The reextracted samples were chosen for the remaining samples since the original analyses contained phenol. The positive results and nondetects reported for samples 2-GW1010004, , 3GW170004, 3GW470004 and BGW1020004 were qualified as estimated, "J" and "UJ', respectively.

Samples 2GW1010004, 2GW300004, 2GW309904, 2GW760004, 3GW1070004, 3GW170004, 3GW190004, 3GW470004 and BGW1020004 were reextracted for the total petroleum hydrocarbon – diesel analyses 13-14 days outside of holding time due to laboratory blank contamination. The reextracted samples were chosen for validation purposes. The nondetected results reported for the reextracted samples were qualified as estimated, "UJ".

Continuing calibration percent differences (%Ds) for 3,3'-dichlorobenzidine on instrument A4HP8 on 11/3/99 were > 25% quality control limit but < 50% quality control limit. However, no validation actions were required as the results reported for the aforementioned compound were nondetects.

Sample 3GW190004 was analyzed at a dilution for the volatile analyses due to sample matrix interference. The laboratory only included the diluted results within this data package.

The surrogate recovery for nitrobenzene-d5 was greater than the quality control limit for the laboratory control standard. No validation actions were required.

The check sample / check sample duplicate recoveries were > the quality control limit for phenol, benzo(a)pyrene and total petroleum hydrocarbons - diesel. However, no validation actions are required based on check sample / check sample duplicate recoveries alone.

A comparison of positive results for field duplicate pair 2GW300004 / 2GW309904 is contained in Appendix C.

Executive Summary

Laboratory Performance: Initial and continuing calibration RRFs for acetone and 2-butanone were < 0.05 quality control limit. Several compounds were present in the laboratory method blanks.

Other Factors Affecting Data Quality: Several compounds were detected in the field quality control blanks. The surrogate recoveries for phenol-d5, 2-fluorophenol and 2,4,6-tribromophenol were below the quality control limits for sample 2GW309904. Positive results < CRQL were qualified as estimated.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Data Validation", (9/94) as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Laboratory Quality Assurance Guide" (NFESC 2/96).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Terri L. Solomon
Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation.

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO :	**R. KOTUN**	**DATE:**	**MARCH 10, 2000**
FROM:	**TERRI L. SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION –VOLATILE ORGANIC COMPOUNDS, SEMIVOLATILE ORGANIC COMPOUNDS, PESTICIDES, PCBs, EXPLOSIVES, PETROLEUM HYDROCARBONS**
CTO 298 – NSWC WHITEOAK, WHITE OAK, MARYLAND
SAMPLE DELIVERY GROUP SDG – WO078

SAMPLES: 20/Aqueous/

13GW010004	13GW019904	13GW020004	13GW030004
3GW1020004	3GW1040004	3GW180004	3GW78D0004
3GW78S0004	5GW020004	9GW070004	9GW1000004
9GW440004	9GW550004	9GW57S0004	9GW580004
9GW750004	TB102399-00-04	TB102699-00-04	TB102799-00-04

Overview

The sample set for CTO 298, SDG WO078, White Oak, consists of seventeen (17) aqueous environmental samples and three (3) trip blanks (TB102399-00-04, TB102699-00-04 and TB102799-00-04). All samples, with the exception of 9GW440004, TB102399-00-04, TB102699-00-04 and TB102799-00-04 were analyzed for low level concentration volatile organic compounds (VOCs), low level concentration semivolatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), explosives, total petroleum hydrocarbons and total petroleum hydrocarbons-diesel. Samples 9GW440004, TB102399-00-04, TB-102699-00-04 and TB102799-00-04 were analyzed for low level concentration volatile organic compounds only. One (1) field duplicate pair, 13GW010004 / 13GW019904, was included within this SDG.

The samples were collected by Tetra Tech NUS on October 23-27, 1999 and analyzed by Quanterra Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and OLC02.1, OLM03.1, SW-846 method 8330, MCAWW method 418.1 and SW-846 method 8015B analytical and reporting protocols.

Summary

All analytes were successfully analyzed, with the exception of those designated as rejected, "UR". The findings offered in this report are based upon a general review of all available data including data completeness, holding times, instrument performance, initial / continuing calibrations, laboratory / field quality control blanks, surrogate recovery, matrix spike / matrix spike duplicate recoveries, check sample / check sample duplicate recoveries, field duplicates, internal standard recovery, compound identification, compound quantitation and detection limits.

Areas of concern with respect to data quality are listed below.

Major Problems

- Initial and continuing calibration relative response factors (RRFs) for acetone, 2-butanone and 1,2-dibromo-3-chloropropane were < 0.05 quality control limit. Nondetected results were qualified as rejected, "UR".

Minor Problems

- Initial calibration RRF for acetone was < 0.05 quality control limit. Positive results were qualified as biased low, "L".

- The following compounds were detected in the laboratory method / field quality control(*) blanks at the following concentrations:

Compound	Level	Action Level
acetone(*)	3.7 ug/L	37 ug/L
methylene chloride(*)	0.22 ug/L	2.2 ug/L
toluene(*)	0.12 ug/L	0.6 ug/L
bis-(2-ethylhexyl) phthalate	1.6 ug/L	16 ug/L

  Dilution factors and sample aliquots were taken into consideration when applying action levels. Positive results for acetone and bis-(2-ethylhexyl) phthalate below the action level were qualified as false positives, "B". It should be noted that field quality control blanks are not qualified for blank contamination.

- Positive results < Contract Required Quantitation Limit (CRQL) were qualified as estimated, "J".

Notes

It should be noted that the laboratory analyzed for carbazole although it was not listed in the lab spec.

Initial calibration percent relative standard deviations (%RSDs) for chloroethane and 1,2-dibromo-3-chloropropane were > 30% but < 50% quality control limits. However, no validation actions were required as the results reported for the aforementioned compounds were either nondetects or were qualified for a more severe noncompliance.

Continuing calibration percent differences (%Ds) for chloroethane were > 25% quality control limit but < 50% quality control limit. However, no validation actions were required as the results reported for the aforementioned compound were nondetects.

Several samples were analyzed at dilutions due to high concentrations of target compounds. The laboratory only included the diluted results within this data package.

Samples 13GW0104004, 13GW019904, 13GW030004, 3GW1020004, 3GW1040004, 3GW180004, 3GW78S0004 and 5GW020004 were reextracted 10-12 days outside of holding time due to laboratory blank contamination. The re-extracted samples were qualified as estimated, "J" and "UJ", respectively, due to holding time exceedences.

The check sample / check sample duplicate recoveries were > the quality control limit total petroleum hydrocarbons - diesel. However, no validation actions are required based on check sample / check sample duplicate recoveries alone.

The matrix spike duplicate percent recovery for total petroleum hydrocarbons – diesel was > quality control limits for sample 3GW78D0004. However, no validation actions are required based on matrix spike duplicate percent recovery alone.

A comparison of positive results for field duplicate pair 13GW010004 / 13GW019904 is contained in Appendix C.

Executive Summary

Laboratory Performance: Initial and continuing calibration relative response factors (RRFs) for acetone, 2-butanone and 1,2-dibromo-3-chloropropane were < 0.05 quality control limit. Several compounds were present in the laboratory method blanks.

Other Factors Affecting Data Quality: Several compounds were detected in the field quality control blanks. Positive results < CRQL were qualified as estimated.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Data Validation", (9/94) as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Laboratory Quality Assurance Guide" (NFESC 2/96).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Terri L. Solomon
Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation.

Tetra Tech NUS

INTERNAL CORRESPONDENCE

TO: MR. RON KOTUN **DATE:** MARCH 10, 2000

FROM: LINDA KARSONOVICH **COPIES:** DV FILE

SUBJECT: ORGANIC DATA VALIDATION- VOA/SVOA/PEST/PCB/EXP/TPH
CTO 298, NSWC WHITE OAK, MD
SDG WO080

SAMPLES: 18/Aqueous/

4GW1000004	4GW1040004	4GW500004
5GW010004	9GW1030004	9GW1039904
9GW1040004	9GW1050004	9GW1060004
9GW1070004	9GW1090004	9GW1100004
9GW740004	9GWC50004	9GWC59904
TB110299-00-04	TB110399-00-04	TB110499-00-04

OVERVIEW

The sample set for CTO 298, SDG WO080, NSWC White Oak, MD consists of three (3) trip blanks (TB) and fifteen (15) aqueous environmental samples. All samples were analyzed for Target Compound List (TCL) volatile organic compounds. The environmental samples were also analyzed for TCL semivolatile organic compounds, pesticides/PCBs, explosive compounds, Total Petroleum Hydrocarbons (TPH-Diesel). One pair of field duplicates were included in the SDG: 9GWC50004 and 9GWC59904.

The samples were collected by TetraTech NUS on November 2-4, 1999 and were analyzed by Quanterra Laboratories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using Contract Laboratory Program (CLP) Statement of Work (SOW) OLC02.1 and SW-846 Methods 8330 and 8015B analytical and reporting protocols.

All samples were successfully analyzed with the exception of those results that were rejected. The findings offered in this report are based upon a general review of all available data including: data completeness, system performance and tuning, holding times, initial/continuing calibrations, laboratory method blank results, surrogate spike recoveries, internal standard recoveries, matrix spike/matrix spike duplicate results, compound identification, compound quantitation, and detection limits. Areas of concern are listed below.

Major Problems

- Initial and continuing calibration relative response factors (RRFs) fell below the 0.05 quality control limit for acetone, 2-butanone, and 1,2-dibromo-3-chloropropane. Nondetected results for all three compounds were rejected, UR. Positive results for acetone were qualified as biased low, L.

- Matrix spike duplicate recovery of 4-chloroaniline was less than 10%. The nondetected result in the unspiked sample, 9GWC50004, was rejected, UR. The nondetected result in the field duplicate, 9GWC59904, was also rejected, UR.

- The percent difference between columns exceeded 100% for Endosulfan sulfate in sample ~~8~~4GW1040004. The positive result was rejected, R.

3-14-2000
JAJ

Minor Problems

- The TPH fractions of samples 4GW1000004, 9GWC50004, and 9GWC59904 were extracted beyond the seven day holding time. Nondetected results were qualified as estimated, UJ.

- A continuing calibration percent difference (%D) exceeded the 25% quality control limit for chloroethane. Nondetected results were qualified as estimated, UJ, in all samples except the following: 5GW010004, 9GW1050004, 9GW1060004, 9GW1090004, and TB110299-00-04.

- A continuing calibration %D exceeded the 15% quality control limit for TPH. Nondetected and positive results were qualified as estimated, UJ and J in samples 9GW740004, 9GW1040004, 9GW1030004, 9GW1039904, 9GW1070004, and 9GW1100004.

- The following compounds were detected in the laboratory method blanks or field quality control blanks (*):

Compound	Maximum Concentration	Blank Action Level
Acetone*	4.8 µg/L	48 µg/L
Methylene chloride*	0.27 µg/L	2.7 µg/L
Chloroform	0.10 µg/L	0.5 µg/L

  Sample aliquot and dilution factors were taken into consideration when applying the blank action limit. Positive results for chloroform and methylene chloride below the blank action level were qualified as false positives, B. Field quality control blanks were not qualified based on contamination in other field quality control blanks or laboratory method blanks.

- The laboratory raised the reporting level for 3-nitrotoluene in sample 4GW500004 due to matrix interferences. The nondetected result was qualified as estimated, UJ.

- Matrix spike and matrix spike duplicate recoveries fell below the lower quality control limit for HMX. MS and MSD recoveries for RDX fell below 10%. The positive result for RDX in the unspiked sample, 9GWC50004, and the field duplicate 9GWC59904, were qualified as estimated, J. No qualifiers were assigned to HMX.

- Positive results below the CRQL were qualified as estimated, J, due to uncertainty near the detection limit. The direction of bias cannot be determined.

Notes

Sample 4GW500004 in the volatile fraction required a 100X dilution due to the presence of target compounds. This accounts for the elevated reporting limit for this sample.

Initial calibration percent relative standard deviations (%RSDs) exceeded the 30% quality control limit for chloroethane and 1,2-dibromo-3-chlorpropane. No qualifiers were assigned on this basis since the compounds were not detected in the samples and the exceedances were less than 50%.

Continuing calibration %Ds exceeded the 25% quality control limit for chloroethane, bromomethane, acetone, 2-butanone, and 1,2,4-trichlorobenzene. No qualifiers were assigned on this basis since the compounds were not detected in the samples and the exceedances were less than 50%.

A continuing calibration %D exceeded the 25% quality control limit for 2,4-dinitrophenol. No qualifiers were assigned on this basis since the compound was not detected in the samples and the exceedance was less than 50%.

No surrogate recovery was reported for the explosive fraction of sample 5GW010004 due to the 15X dilution of the sample extract. Therefore, extraction efficiency was not evaluated for this sample. No qualifiers were assigned on this basis.

EXECUTIVE SUMMARY

Laboratory Performance Issues:. Several volatile compounds failed to meet the RRF quality control criteria. Several compounds failed to meet the continuing calibration %D criteria in the volatile fraction. Several compounds were detected in the laboratory method and field quality control blanks.

Other Factors Affecting Data Quality: 4-Chloroaniline and RDX recoveries were 10% in the semivolatile and explosive MS/MSDs.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (9/94) as modified by Region III and the NFESC guidelines "Navy Installation Restoration Program Laboratory Quality Assurance Guide" (February, 1996). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

TetraTech NUS

Linda Karsonovich
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO :	**R. KOTUN**	**DATE:**	**FEBRUARY 29, 2000**
FROM:	**JENNIFER M. MALLE**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION –AMMONIA AND PERCHLORATE**
CTO 298 – NSWC WHITE OAK, MD
SAMPLE DELIVERY GROUP SDG – 996828

SAMPLES: 19/Aqueous/

4GW100004	4GW1010004	4GW1030004	4GW1090004
4GW110004	4GW130004	4GW150004	4GW480004
4GW49D0004	4GW520004	4GW529904	4GW790004
4GW799904	4GW800004	4GW81D0004	4GW890004
9GWC140004	9GWC60004	FB1110990004	

Overview

The sample set for SDG 996828, NSWC White Oak, consists of eighteen (18) aqueous environmental samples and one field blank (FB1110990004). Two field duplicate pairs (4GW520004/4GW529904 and 4GW790004/4GW799904) were included within this SDG.

All samples were analyzed for ammonia and perchlorate. The samples were collected by Tetra Tech NUS on November 8-11, 1999 and analyzed by Applied Physics and Chemistry Laboratory (APCL) under Naval Facilities Engineering Service Center (NFESC) Navy Installation Restoration Laboratory Quality Assurance Guide (February 1996). Ammonia analyses were conducted under EPA method 350.2. Perchlorate analyses were conducted under EPA method 300.0.

Summary

All analytes were successfully analyzed. The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, calibration data, laboratory method/preparation/field blanks, matrix spike results, laboratory duplicate results, laboratory control sample (LCS) results,detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems

- None.

Minor Problems

- None.

Notes

A field duplicate comparison table was not required since all results reported in the samples were nondetected.

Perchlorate analyses were conducted at various dilutions.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Validation", April 1993 Revision as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Laboratory Quality Assurance Guide" (NFESC 2/96).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Jennifer M. Malle
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

PITT-12-9-200

TO :	**R. KOTUN**	**DATE:**	**MARCH 3, 2000**
FROM:	**GRETCHEN A. PHIPPS**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION –TAL METALS, DISSOLVED TAL METALS AND CYANIDE**
CTO 298 – NSWC WHITE OAK, MD
SAMPLE DELIVERY GROUP SDG – WO076

SAMPLES: 25/Aqueous/

11GW1050004	11GW1059904	11GW1060004
11GW1080004	11GW1090004	11GW1100004
11GW1110004	11GW1110004-F	11GW870004
11GW870004-F	2GW1020004	2GW1030004
2GW1030004-F	2GW1040004	2GW1040004-F
2GW1050004	2GW1050004-F	2GW310004
2GW320004	2GW450004	2GW450004-F
3GW770004	3GW770004-F	BGW1010004
BGW1010004-F		

Overview

The sample set for SDG WO076, NSWC White Oak, consists of twenty-five (25) aqueous environmental samples. One (1) field duplicate pair (11GW1050004 / 11GW1059904) was included within this SDG.

All samples, with exception to those designated –F, were analyzed for target analyte list (TAL) metals and cyanide. The samples designated with –F were analyzed for dissolved target analyte list (TAL) metals. The samples were collected by Tetra Tech NUS on October 15 and 18-20, 1999 and analyzed by Quanterra Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. Metals and cyanide analyses were conducted using CLP ILM03.0/4.0 methodology.

Summary

All analytes were successfully analyzed. The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, calibration data, laboratory method/preparation blanks, interference check sample (ICS) results, matrix spike results, laboratory duplicate results, field duplicate results, laboratory control sample (LCS) results, ICP serial dilution results, detection limits and analyte quantitation.

All TAL metals analyses, with the exception of mercury, were conducted using Inductively Coupled Plasma (ICP) methodologies. Mercury analyses were conducted using cold vapor AA.

Areas of concern with respect to data quality are listed below.

Minor Problems

- The Contract Required Detection Limit (CRDL) Percent Recoveries (%Rs) for lead and zinc were >110% quality control limit. The positive results <2X CRDL reported for lead and zinc were qualified as biased high, "K".

- The CRDL %R for mercury was <90% quality control limit. The nondetected results reported for mercury were qualified as biased low, "UL".

- The following contaminants were detected in the laboratory method / preparation blanks at the following maximum concentrations :

Samples Affected: All

Analyte	Maximum Concentration	Action Level(aqueous)
Aluminum[1]	88.937µg/L	444.685µg/L
Barium	1.2µg/L	6.0µg/L
Beryllium	1.3µg/L	6.5µg/L
Cadmium	0.4µg/L	2.0µg/L
Calcium	95.9µg/L	479.5µg/L
Chromium	2.1µg/L	10.5µg/L
Cobalt	1.1µg/L	5.5µg/L
Iron	40.0µg/L	200µg/L
Magnesium	102.2µg/L	511µg/L
Manganese[1]	4.038µg/L	20.19µg/L
Sodium[1]	515.7µg/L	2578.5µg/L
Thallium	6.0µg/L	30.0µg/L
Vanadium	1.2µg/L	6.0µg/L
Zinc[1]	2.302µg/L	11.51µg/L

[1] Maximum concentration present in an aqueous preparation blank.

An action level of 5x the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration when evaluating for blank contamination. The positive results < the action level for aluminum, beryllium, cadmium, chromium, cobalt, iron, manganese, thallium, vanadium and zinc were qualified, "B", as a result of blank contamination. No validation action was required for the remaining analytes since either the results were greater than the action level or were nondetects.

Notes

A comparison of field duplicate pair (11GW1050004 / 11GW1059904) is included in Appendix C.

The CRDL %Rs for beryllium, manganese and thallium were >110% quality control limit. However, all results reported for beryllium, manganese and thallium were either nondetected, qualified as a result of blank contamination or greater than 2X CRDL. Therefore, no validation action was required.

Executive Summary

Laboratory Performance: The CRDL %Rs for several analytes were outside the 90-110% quality control limit. Several analytes were present in the laboratory method/preparation blanks.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Validation", April 1993 Revision as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Chemical Data Quality Manual" (NFESC 6/98).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Gretchen A. Phipps

Tetra Tech NUS
Gretchen A. Phipps
Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

PITT-12-9-163

TO :	**R. KOTUN**	**DATE:**	**MARCH 3, 2000**
FROM:	**GRETCHEN A. PHIPPS**	**COPIES:**	**DV FILE**

SUBJECT: **MISCELLANEOUS DATA VALIDATION –AMMONIA AND PERCHLORATE**
CTO 298 – NSWC WHITE OAK, MD
SAMPLE DELIVERY GROUP SDGs – 996545 AND 996229

SAMPLES: **SDG 996545**

27/Aqueous/

13GW010004	13GW019904	13GW020004
13GW030004	3GW1020004	3GW1040004
3GW180004	3GW78D0004	3GW78S0004
5GW020004	9GW010004	9GW020004
9GW030004	9GW040004	9GW050004
9GW060004	9GW069904	9GW070004
9GW1000004	9GW550004	9GW560004
9GW57D0004	9GW57S0004	9GW580004
9GW590004	9GW750004	9GW830004

SDG 996229

19/Aqueous/

11GW220004	11GW230004	11GW250004
7GW080004	7GW1010004	7GW1020004
7GW1030004	7GW1039904	7GW1040004
7GW1050004	7GW410004	7GW420004
7GW430004	8GW330004	8GW340004
8GW350004	8GW360004	8GW530004
8GWB10004		

Overview

The sample set for SDGs 996545 and 996229, NSWC White Oak, consists of forty-six (46) aqueous environmental samples. Three (3) field duplicate pairs (13GW010004 / 13GW019904, 9GW060004 / 9GW069904 and 7GW1030004 / 7GW1039904) were included within this sample set.

The samples were analyzed for ammonia and perchlorate. The samples were collected by Tetra Tech NUS on October 5-8 and 23-28, 1999 and analyzed by Applied Physics and Chemistry Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. Ammonia analyses were conducted using EPA method 350.2. Perchlorate analyses were conducted using EPA method 300.0.

Summary

All analytes were successfully analyzed. The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, calibration data, laboratory method/preparation blanks, matrix spike results, laboratory duplicate results, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems

- None

Minor Problems

- The Matrix Spike (MS) Percent Recovery (%R) for ammonia affecting SDG 996229 was >125% quality control limit. The positive results reported for ammonia in the affected samples were qualified as biased high, "K".

- Field Duplicate imprecision (>30%) was noted for perchlorate affecting SDG 996229. The positive results reported for perchlorate in the affected samples were qualified as estimated, "J". The direction of bias could not be determined.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: The MS %R for ammonia was >125% quality control limit affecting SDG 996229. Field Duplicate imprecision was noted for perchlorate affecting SDG 996229.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Validation", April 1993 Revision as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Chemical Data Quality Manual" (NFESC 6/98).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Gretchen A. Phipps

Tetra Tech NUS
Gretchen A. Phipps
Chemist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

PITT-12-9-164

TO :	**R. KOTUN**	**DATE:**	**MARCH 3, 2000**
FROM:	**GRETCHEN A. PHIPPS**	**COPIES:**	**DV FILE**

SUBJECT: **MISCELLANEOUS DATA VALIDATION –AMMONIA AND PERCHLORATE**
CTO 298 – NSWC WHITE OAK, MD
SAMPLE DELIVERY GROUP SDGs – 996310 AND 996439

SAMPLES: **SDG 996310**

32/Aqueous/

11GW1010004	11GW1020004	11GW1030004
11GW1040004	11GW1049904	11GW1070004
11GW240004	11GW260004	11GW270004
11GW280004	11GW290004	11GW620004
11GW629904	11GW630004	11GW640004
11GW650004	11GW660004	11GW670004
11GW680004	11GW690004	11GW70D0004
11GW710004	11GW719904	11GW720004
11GW730004	11GW840004	11GW850004
11GW860004	11GW880004	11GW889904
BGW1000004	BGW400004	

SDG 996439

27/Aqueous/

11GW1050004	11GW1059904	11GW1060004
11GW1080004	11GW1090004	11GW1100004
11GW1110004	11GW870004	2GW1000004
2GW1010004	2GW1020004	2GW1030004
2GW1040004	2GW1050004	2GW300004
2GW309904	2GW310004	2GW320004
2GW450004	2GW760004	3GW1070004
3GW170004	3GW190004	3GW470004
3GW770004	BGW1010004	BGW1020004

Overview

The sample set for SDGs 996310 and 996439, NSWC White Oak, consists of fifty-nine (59) aqueous environmental samples. Six (6) field duplicate pairs (11GW1040004 / 11GW1049904, 11GW620004 / 11GW629904, 11GW710004 / 11GW719904, 11GW710004 / 11GW719904, 11GW1050004 / 11GW1059904 and 2GW300004 / 2GW309904) were included within this sample set.

The samples were analyzed for ammonia and perchlorate. The samples were collected by Tetra Tech NUS on October 11-15, and 18-22 1999 and analyzed by Applied Physics and Chemistry Laboratories under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. Ammonia analyses were conducted using EPA method 350.2. Perchlorate analyses were conducted using EPA method 300.0.

Summary

All analytes were successfully analyzed. The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, calibration data, laboratory method/preparation blanks, matrix spike results, laboratory duplicate results, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems

- None

Minor Problems

- None

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Validation", April 1993 Revision as amended for use within USEPA Region III, and the NFESC document entitled "Navy Installation Restoration Chemical Data Quality Manual" (NFESC 6/98).

The text of this report has been formulated to address only those problem areas affecting data quality.

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