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REPORT OF PHASE II ENVIRONMENTAL SITE ASSESSMENT FORT SHERIDAN IL
12/14/2005
MACTEC ENGINEERING AND CONSULTING, INC

19b

REPORT OF PHASE II ENVIRONMENTAL SITE ASSESSMENT FORT SHERIDAN NAVAL REGION MIDWEST FAMILY HOUSING PRIVATIZATION

Prepared for:
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December 14, 2005

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Amendment

This Amendment is issued and effective as of January 1, 2006 for the purpose of amending, and a copy of this Amendment will be attached to and form an integral part of, each of those Reports which is listed on Exhibit "A" hereto by deleting the first paragraph which appears under the caption "Disclaimer and Limitation of Liability" in its entirety and replacing with the following provision:

> This Report is intended for the exclusive use and benefit of Forest City Military Communities, LLC, Forest City Washington, Inc., Midwest Military Communities, LLC and Midwest Family Housing, LLC (collectively, "Client"). However, MACTEC has extended an offer to rely upon or use this Report ("Offer") to (i) the United States of America, Department of the Navy, and (ii) Lehman Brothers, Inc., its successors, affiliates, and permitted assigns, and is willing to extend an offer to reply upon or use this Report (also, "Offer") to the following third parties: (a) the authorized rating agency, (b) prospective bond or other security holders, (c) the trustees of a Trust created to hold the loan, or securities or certificates representing a participation or other interest therein, and (d) the loan servicer, as part of a securitized transaction, as third party beneficiaries of that certain contract between Client and MACTEC made as of July 5, 2005, as amended, (collectively, "Agreement") and this Report (all of the foregoing named in (i) through (d) above, inclusive, individually, "Beneficiary" and, collectively, "Beneficiaries"). The Offer has been, or hereby is, extended to each of you as a Beneficiary as if this Report was prepared for and addressed to you, which said Offer, and your ability to accept the Offer, are expressly conditioned upon (i) the limitations placed on the scope, nature and type of services performed by MACTEC under the Agreement, which are described in the Agreement and this Report, (collectively, "Services") and (ii) your agreement to be bound by the terms and conditions contained in the Agreement and this Report, all of which are incorporated herein by reference. Reliance upon or use of this Report and the contents hereof by you for any purpose whatsoever constitutes acceptance of the Offer and the foregoing conditions to such acceptance and makes you a third party beneficiary of the Agreement and this Report. A copy of the Agreement is available from MACTEC upon request, and certain substantive terms and conditions contained therein are attached to this Report as Attachment "A" for your information, in addition to a limitation of liability that MACTEC might incur as a result of the Agreement, the Services performed by MACTEC under the Agreement ("Services") and the Reports issued by MACTEC pursuant to the Agreement, including this Report ("Limitation of Liability"), as follows:

MACTEC Engineering and Consulting, Inc.

By _____

Its Vice President

MACTEC Engineering and Consulting, Inc.

By _____

Its Principal

EXHIBIT A

Property Condition Surveys:

Report of Property Condition Survey and Visual Infrastructure Inspection, Naval Region Midwest Family Housing Privatization, Fort Sheridan Naval Housing, August, 2005

Report of Property Condition Survey and Visual Infrastructure Inspection, Naval Region Midwest Family Housing Privatization, Forrestal Village Naval Housing, August, 2005

Report of Property Condition Survey and Visual Infrastructure Inspection, Naval Region Midwest Family Housing Privatization, Halsey and Nimitz Villages Naval Housing, August, 2005

Report of Property Condition Survey and Visual Infrastructure Inspection, Naval Region Midwest Family Housing Privatization, Glenview Naval Housing, August, 2005

Report of Property Condition Survey and Visual Infrastructure Inspection, Naval Region Midwest Family Housing Privatization, Naval Support Activity Crane, August, 2005

Phase I's:

Report of Phase I Environmental Site Assessment, Fort Sheridan, November 1, 2005
Report of Phase I Environmental Site Assessment, NAVSTA Great Lakes, October 31, 2005
Report of Phase I Environmental Site Assessment, Naval Support Activity Crane, November 11, 2005
Report of Phase I Environmental Site Assessment, Former Naval Air Station Glenview, October 31, 2005
Report of Phase I Environmental Site Assessment, NSGA Sabana Seca, December 5, 2005

Phase II's:

Report of Phase II Environmental Site Assessment, Fort Sheridan, December 14, 2005
Report of Phase II Environmental Site Assessment, NAVSTA Great Lakes, December 14, 2005
Report of Phase II Environmental Site Assessment, Naval Support Activity Crane, December 9, 2005
Report of Phase II Environmental Site Assessment, Former Naval Air Station Glenview, December 9, 2005

EXHIBIT "B"

Disclaimer and Limitation of Liability
(To be included on 1st page of each Report)

This Report is intended for the exclusive use and benefit of Forest City Military Communities, LLC and Forest City Washington, Inc. (collectively, "Client"). However, MACTEC either has extended, or is willing to extend, an offer to rely upon or use this Report ("Offer") to (i) the United States of America, Department of the Navy, (ii) Lehman Brothers, Inc., its successors, affiliates, and permitted assigns, and (iii) the following third parties: (a) the authorized rating agency, (b) prospective bond or other security holders, (c) the trustees of a Trust created to hold the loan, or securities or certificates representing a participation or other interest therein, and (d) the loan servicer, as part of a securitized transaction, as third party beneficiaries of that certain contract between Client and MACTEC made as of July 5, 2005 ("Agreement") and this Report (individually, "Beneficiary" and, collectively, "Beneficiaries"). The Offer is extended to you as a Beneficiary as if this Report was prepared for and addressed to you, which said Offer, and your ability to accept the Offer, are expressly conditioned upon (i) the limitations placed on the scope, nature and type of services performed by MACTEC under the Agreement, which are described in the Agreement and this Report, (collectively, "Services") and (ii) your agreement to be bound by the terms and conditions contained in the Agreement and this Report, all of which are incorporated herein by reference. Reliance upon or use of this Report and the contents hereof by you for any purpose whatsoever constitutes acceptance of the Offer and the foregoing conditions to such acceptance and makes you a third party beneficiary of the Agreement and this Report. A copy of the Agreement is available from MACTEC upon request, and certain substantive terms and conditions contained therein are attached to this Report as Attachment "A" for your information, in addition to a limitation of liability that MACTEC might incur as a result of the Agreement, the Services performed by MACTEC under the Agreement ("Services") and the Reports issued by MACTEC pursuant to the Agreement, including this Report ("Limitation of Liability"), as follows:

A LIMITATION OF MACTEC'S LIABILITY WAS A MATERIAL CONSIDERATION FOR MACTEC'S WILLINGNESS TO PERFORM THE SERVICES. IN THOSE JURISDICTIONS WHERE REQUIRED, YOU HEREBY ACKNOWLEDGE THAT YOU HAVE RECEIVED SPECIAL CONSIDERATION OF TEN DOLLARS ($10.00) AND WAIVE ANY AND ALL RIGHTS TO DISPUTE THE RECEIPT AND SUFFICIENCY THEREOF. TO THE MAXIMUM EXTENT PERMITTED BY LAW, CLIENT AND ALL BENEFICIARIES, INCLUDING YOU, EXPRESSLY AGREE, FOR THEMSELVES AND ANYONE CLAIMING BY, THROUGH OR UNDER THEM, THAT THE LIABILITY OF MACTEC, ITS PARENT, SUBSIDIARIES, AFFILIATES AND SUBCONTRACTORS, INCLUDING THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES, PRINCIPALS, PARTNERS, AGENTS, SUCCESSORS AND ASSIGNS, ("INDEMNITEES"), FOR ANY AND ALL CAUSES OF ACTION WHATSOEVER, INCLUDING, WITHOUT LIMITATION, TORT, CONTRACT, STRICT LIABILITY, INDEMNITY OR OTHERWISE, ARISING OUT OF, OR IN CONNECTION WITH, ANY PROFESSIONAL SERVICES PERFORMED, AND REPORTS ISSUED, PURSUANT TO THE AGREEMENT (BUT SPECIFICALLY EXCLUDING BODILY INJURY (INCLUDING DEATH), PROPERTY DAMAGE AND ANY OTHER CAUSES OF ACTION ARISING FROM SERVICES WHICH DO NOT INVOLVE THE EXERCISE OF PROFESSIONAL ENGINEERING OR ARCHITECTURAL EXPERTISE, DISCERNMENT, TRAINING OR JUDGMENT), SHALL BE LIMITED TO THE AGGREGATE SUM, INCLUDING AMOUNTS PAID TO CLIENT AND ANY AND ALL BENEFICIARIES, INCLUDING YOU, TO WHOM REPORTS ARE PROVIDED, ATTORNEYS' FEES AND ALL OTHER LITIGATION COSTS AND EXPENSES INCURRED BY MACTEC, IF ANY, OF ONE MILLION DOLLARS ($1,000,000.00). CLIENT, IN ITS OWN RIGHT AND ON BEHALF OF THE BENEFICIARIES, INCLUDING YOU, TO WHOM IT INTENDED TO PROVIDE, AND IN FACT HAS PROVIDED OR WILL PROVIDE, ANY REPORT FOR RELIANCE, HAS ACKNOWLEDGED AND AGREED THAT (i) IT HAS HAD THE OPPORTUNITY TO NEGOTIATE THE TERMS OF THIS LIMITATION OF LIABILITY AND THAT THE LIMITATION OF LIABILITY AMOUNT MAY DIFFER FROM THE AMOUNT OF PROFESSIONAL LIABILITY INSURANCE REQUIRED OF MACTEC UNDER THE AGREEMENT, AND (ii) THE NEED FOR AND EXISTENCE, IF NOT THE PRECISE IDENTITY, OF THE BENEFICIARIES WAS FORESEEABLE AND KNOWN BY CLIENT.

Attachment "A" (To the Report)

STANDARD OF CARE. MACTEC will perform the Services in accordance with the Standard of Care. MACTEC will provide Client with a copy of the applicable ASTM standard(s) upon written request. Except where specified otherwise in MACTEC's proposal, a Phase I ESA and PCS will be a non-invasive survey of the Property that is the subject of the Services. NO OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED, AND THE SAME ARE SPECIFICALLY DISCLAIMED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE. AND THE OUTCOME OR RESULT OF ANY CASE OR PROJECT FOR WHICH CONSULTANT MAY BE RETAINED TO PROVIDE FORENSIC SERVICES AND/OR TESTIMONY.

OFFER. Notwithstanding any other provision in this Agreement to the contrary, particularly including, but not limited to, Section 1.07 (a) above, Client acknowledges that the reports to be prepared by MACTEC as a result of the Services performed by it under this Agreement (individually, "Report" and, collectively, "Reports") are intended for the exclusive use and benefit of, and may be relied upon only by, (i) Client, (ii) Lehman Brothers, Inc., its successors, affiliates, and permitted assigns, and (iii) the following third parties: (a) the authorized rating agency, (b) prospective bond or other security holders, (c) the trustees of a trust created to hold the loan, or securities or certificates representing a participation or other interest therein, and (iv) the loan servicer, as part of a securitized transaction. Those parties named in (ii) through (iii) above hereby are specifically made third party beneficiaries of this Agreement and the Reports (individually, "Beneficiary" and, collectively, "Beneficiaries"). In furtherance of the foregoing, MACTEC hereby offers reliance upon and use of the Reports, as aforesaid, to each Beneficiary ("Offer"). Each Beneficiary may accept the Offer by receiving a copy of, and relying upon or otherwise using, a Report.

ACCEPTANCE OF OFFER. Owner, Consultant and each Beneficiary agree that receipt, reliance upon or use of the Reports and the contents thereof by a third party for any purpose whatsoever constitutes acceptance of the Offer and the foregoing conditions to such acceptance, and makes that third party a third party Beneficiary of this Agreement and the Reports. Reliance upon or use of the Reports for any purpose whatsoever by an individual or entity which is neither a party to this Agreement, nor a Beneficiary, is entirely at the peril of that individual or entity. Owner and Beneficiaries further acknowledge and agree that the contents of each Report will only reflect MACTEC's findings as to the conditions that existed at the time the Services referenced therein were performed and may be based in part or in whole on facts and/or assumptions provided to, but not verified independently by, MACTEC, and that MACTEC makes no representations or warranties as to the condition of the subject of any Report subsequent to the date on which the applicable Services were performed or with respect to any facts and/or assumptions provided to, but not verified independently by, MACTEC.

INDIRECT DAMAGES. Neither MACTEC nor you shall be responsible to the other party or any third party for any indirect or incidental damages (including, but not limited to, loss of use, income, profits, financing or reputation) arising out of or relating to the Agreement, this Report or the performance of the Services that gave rise to this Report.

NOTICE REGARDING ASSUMPTION OF RISK AND ADDITIONAL SERVICES OPTIONS. Since a Phase I ESA and a PCS is a survey and not an invasive investigation, and a Phase II ESA is a minimally invasive investigation that utilizes commonly used exploration methods (e.g. drilling, subsurface sampling) to take groundwater, soil and other Samples only in limited areas where the presence of contaminants is suspected, Client understands there is a risk that (i) certain past and present conditions, latent and otherwise, might not be detected and reported by MACTEC and (ii) contamination of previously uncontaminated soils and/or water, including water-bearing strata, which are capable of spreading Contaminants off-site, as well as on-site, might occur even if the Services are performed in accordance with the Standard of Care which is applicable to the Services. Such conditions include, but are not limited to, the presence of UST's that may have been installed and/or removed prior to performing a Phase I or Phase II ESA, short-term uses (generally less than 10 years) that may not be reflected in aerial photographs or other information that is readily available at the time a Phase I ESA is performed, the presence of contamination in areas where it was not suspected at the time a Phase II is performed, or conditions in roofs, buildings and other structures, and various components thereof, that, given the

non-invasive nature of the Services and/or limited visibility or accessibility, are not readily observable at the time a PCS is performed.

Client understands that a PCS is normally performed by a person who possesses a general knowledge of multiple building systems, but is not a specialist in any one of those systems. If Client wishes to have one or more systems surveyed by more experienced personnel, Client has the option to request MACTEC to perform a more extensive PCS, as additional Services, with a corresponding increase in compensation being payable to MACTEC. Also, a façade, invasive, and other special inspection(s) can be performed for roofs, buildings and other structures, and various components thereof, in lieu of a visual survey as additional Services, with a corresponding increase in compensation being payable to MACTEC. If Client does not request such additional Services, Client agrees that MACTEC is in no way liable for any Claims or Liabilities for a condition(s) which such additional Services might have detected. Client agrees that MACTEC is not an insurer or guarantor of the property that is the subject of the Services or the value thereof.

DAMAGES. In the event that MACTEC fails to perform in accordance with the Standard of Care which is applicable to the Services, Client agrees that the damages for which MACTEC shall be liable shall be limited to that proportion of damages which is attributable to MACTEC's percentage of fault which, in no event, shall exceed the limitation of liability set forth in Section 1.07 (c) of the Agreement. Further, in the event that MACTEC fails, in either an ESA or a PCS, to correctly report an environmental or deficient condition in violation of the applicable Standard of Care, the liability of MACTEC, and Client's exclusive remedy, for any and all damages which result therefrom is limited to the lesser of (i) the cost to either remedy the deficient condition or (ii) the resultant diminution in value of the Property on which the ESA was performed that is actually realized by Client, but in no event shall MACTEC be liable for the entire cost of replacing the Property or portion thereof that is subject to the deficient condition; provided, in the event that MACTEC has performed a PCS in violation of the applicable Standard of Care and the Property or portion thereof that is subject to the deficient condition cannot be remedied for a reasonable cost, but must be replaced prior to the end of its useful life, as its useful life was represented by MACTEC, the aforesaid liability of MACTEC will be limited to the value of the useful life of the Property or portion thereof for which Client did not receive the benefit of its represented useful life. This value shall be an amount equal to the full replacement cost of that Property or portion thereof, if and when replaced, multiplied by a fraction, the numerator of which is the amount of said useful life which was lost by the premature replacement and the denominator of which is the useful life, as represented by MACTEC, of the replaced Property or portion thereof that was ended prematurely.

EXECUTIVE SUMMARY

MACTEC Engineering and Consulting, Inc. (MACTEC) was contracted by Forest City Washington (Forest City) to perform a Phase II Environmental Site Assessment (ESA) at the United States Navy portion of Fort Sheridan in Highland Park, Illinois (subject property). This *Phase II Environmental Site Assessment Report* documents the activities performed during the Phase II ESA and presents findings and conclusions with regard to environmental impacts at the site.

Fort Sheridan is located in Lake County, Illinois and is bounded on the north by the City of Lake Forest, the west by the City of Highwood, the south by the City of Highland Park and the east by Lake Michigan. The subject property is the portion of Fort Sheridan under control of the Navy and consists of approximately 206 acres of land in two non-contiguous parcels (designated as the Main Navy Property and the Westover Property) and is used for residential housing by government employees. The Main Navy Property is bound on the north by Bartlett Ravine, on the west by a chain-link fence that runs approximately adjacent to Army Buildings 133, 379, 147, 460, 432, 433, 448, 455 and 649, on the south by Walker Avenue and the east by Lake Michigan. The Westover Property is bound on the north by Army Building 200, the west by McKinley Road, on the south by Army Building 99, and on the east by Army Buildings 33, 91, 90, 59, 7, 100, and 85.

The purpose of the Phase II ESA was to determine potential environmental impacts to the subject property from conditions identified during a document review and a Phase I ESA performed by MACTEC (see *Report Of Phase I Environmental Site Assessment, NAVSTA Fort Sheridan, Naval Region Midwest Family Housing Privatization,* dated December 1, 2005, prepared by MACTEC). The scope of work performed for the Phase II ESA was based on the findings of a document review, completed prior to a Phase I ESA performed by MACTEC, and subsequent additional information discovered during the Phase I ESA. As part of the document review, it was determined that Phase II ESA activities were not warranted in the Westover Property. Therefore, the Westover Property will not be discussed in this report. The Phase II ESA was performed at sites at which previous reports indicated environmental impact and where remedial closure documentation was not available. The Phase II ESA was performed at the following sixteen (16) sites within the Main Property at Fort Sheridan at which previous reports indicated environmental impact and where remedial closure documentation was not available:

- Building 162 Leaking Underground Storage Tank (LUST) Site
- Buildings 800 through 806 Abandoned Underground Storage Tanks (USTs)
- Various Buildings Aboveground Storage Tanks (ASTs)
- Army IR Site No. 2 – Landfill No. 5
- Army IR Site No. 3A – Coal Storage Area (CSA) No. 3
- Army IR Site No. 5 – Excavation Area No. 8
- Army IR Site Nos. 7 and 37 – Vehicle Equipment Storage (VES) Area No. 3 and Building 377 (Former Pesticide Storage)
- Army IR Site No. 11 – VES Area No. 7
- Army IR Site No. 13 – Bartlett Ravine
- Army IR Site No. 15 – Van Horne Ravine
- Army IR Site No. 16 – Schenck Ravine
- Army IR Site Nos. 17, 18, 19, and 20 – Buildings 384, 388, 389, and 390 (Former Ammunition Storage)

- Army IR Site No. 35 – Building 361 (Photo Shop) – Yard Area
- Army IR Site No. 36 – Building 368 (Auto Mechanics Shop) – Yard Area
- Wells Ravine Tributary North
- Various Buildings – Lead in Surficial Soil

An adjacent area investigated during the Phase II ESA that is not part of the subject property was Army IR Site Nos. 3 and 4 – Landfill Nos. 6 and 7. The United States Army will retain control and management of both landfills including a 100- to 150-foot setback zone along the perimeters of both landfills.

During the Phase I ESA by MACTEC, three (3) additional areas of environmental concern that could impact the subject property were identified. A subsequent phase of investigation was performed on the following three (3) areas:

- Building 368 – Hydraulic Lift Area
- Building 368 – Vehicle Wash Bay
- Building 378 – Hydraulic Lift Area

Onsite Phase II ESA activities began on July 12, 2005 and were completed on September 27, 2005. Phase II ESA activities consisted primarily of soil sample collection and analysis of chemical contaminants known or suspected to be present at the various locations, but also included installation of landfill methane soil-gas vents and methane monitoring. Selection of sample analytical parameters was based upon review of documents related to previous environmental activities at the sites or observations made during the Phase I ESA. Based upon the analytical testing of soil samples collected during the Phase II ESA and comparison of the testing results to Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier 1 soil remediation objectives for residential property use and for construction workers, MACTEC has drawn the following conclusions regarding the subsurface environmental conditions at the subject property:

- Building 162 LUST Site: Of the three (3) subsurface soil samples collected at Building 162 LUST site, the concentration of one (1) polynuclear aromatic hydrocarbon (PNA), benzo(a)pyrene, in one (1) sample at 5 to 7 feet below ground surface (bgs) was detected above its TACO Tier 1 residential soil remediation objective for the soil ingestion pathway. Therefore, it appears that this site has affected the subject property. MACTEC recommends remediation to remove the PNA-contaminated soil at this location. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected area. Since the location of this contaminated soil is deeper than 3 feet and is in an area where no site grading or construction will take place, an engineered barrier consisting of 3 feet of clean soil may already exist over this area. MACTEC recommends sampling of the soil above 3 feet bgs at this location to confirm that the TACO engineered barrier requirements are met. Current plans are for MACTEC to perform this sampling during the site development activities.

- Buildings 800 through 806 Abandoned USTs: Benzene, toluene, ethylbenzene, and xylene (BTEX) and PNA concentrations in subsurface soil samples collected at Buildings 800 through 806 were below TACO Tier 1 soil remediation objectives for residential property use and for construction workers. Therefore, it appears that the presence of the heating oil USTs at the Bullock Drive Apartments has not affected soils at the subject property. MACTEC does not recommend any further investigation action at this site at this time. Current plans are for this

portion of the subject property to be sold and tank removal, if required, will be the responsibility of the new property owner.

- Various Buildings ASTs: Of the thirty-five (35) subsurface soil samples collected adjacent to the AST locations at twenty-nine (29) different buildings at Fort Sheridan, four (4) exhibited PNA concentrations above the TACO Tier 1 soil remediation objectives for residential property use. Three (3) of these samples were collected at 1 foot bgs and one (1) was collected at 3 feet bgs. Benzo(a)pyrene concentrations in all four (4) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Dibenzo(a,h)anthracene concentrations in three (3) of the four (4) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the ingestion pathway. Benzo(a)anthracene concentrations in two (2) of the four (4) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Benzo(b)fluoranthene concentrations in one (1) of the four (4) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. In addition, one detected naphthalene concentration exceeded the Tier 1 Soil Remediation Industrial/Commercial Objectives for the inhalation pathway for construction workers. Therefore, it appears that these four (4) AST sites have affected the subject property.

  MACTEC recommends removal of all of the ASTs by a qualified tank removal contractor. If any product remains in the tanks, it should also be removed and disposed of offsite prior to movement of the tanks. Further, MACTEC recommends remediation to remove the PNA-contaminated soils at these locations. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since three (3) of the four (4) sample locations that exhibited PNA concentrations above the TACO Tier 1 soil remediation objectives are beyond the area where site grading or construction will take place, current plans are for an engineered barrier consisting of 3 feet of clean soil to be placed and maintained over these areas. At the fourth sample location (collected from 3 feet bgs) where the PNA concentrations were above the TACO Tier 1 soil remediation objectives, site grading is planned and will likely result in the removal of soil from this area. Consequently, current plans are for remediation to remove the PNA-contaminated soils at this location by the demolition contractor as part of the site development activities. A construction worker caution will also be implemented for construction workers, who may be working at the area where naphthalene exceeded the construction worker objective, and who may be potentially exposed to the impacted soil.

- Army IR Site No. 2, Landfill No. 5: Of the ten (10) subsurface soil samples collected along a 100-foot set-back boundary around Landfill No. 5, three (3) had detected PNA concentrations above TACO Tier 1 soil remediation objectives for residential property use. Benzo(a)pyrene concentrations exceeded TACO Tier 1 residential soil remediation objectives for the ingestion pathway in all three (3) samples. Concentrations of benzo(a)anthracene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene also exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in one (1) other sample and dibenzo(a,h)anthracene also exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in the third. Therefore, it appears that this site has affected the subject property. MACTEC recommends remediation to remove the PNA-contaminated soils at these locations. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since the locations of the contaminated soil are beyond the area where site grading or construction will take place, current plans are for an engineered barrier consisting of 3 feet of clean soil to be placed by the demolition contractor as part of the site development activities and maintained over this area.

- Army IR Site No. 3A, CSA No. 3: Of the three (3) subsurface soil samples collected at CSA No. 3, two (2) had detected PNA and lead concentrations above TACO Tier 1 soil remediation objectives for residential property use. Benzo(a)pyrene concentrations exceeded TACO Tier 1 residential soil remediation objectives for the ingestion pathway in both samples. Concentrations of benzo(a)anthracene and benzo(b)fluoranthene also exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in one sample, and dibenzo(a,h)anthracene also exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in the other. Concentrations of lead in these two (2) samples were above the TACO Tier 1 soil remediation objectives for the soil ingestion pathway for residential property use and for construction workers. Therefore, it appears that this site has affected the subject property. MACTEC recommends remediation to remove the PNA- and lead-contaminated soils at these locations. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since these locations are in an area where no site grading or construction will take place, current plans are for risk assessment to be performed by MACTEC to determine the effect of leaving this soil in place. Approval by the IEPA will be sought for the risk assessment if the results support leaving the soil in place.

- Army IR Site Nos. 3 and 4, Landfill Nos. 6 and 7: Methane, at up to 9% by volume, was detected in one (1) of the twenty-four (24) soil-gas vents (GV1) installed along a 100-foot set-back boundary around Landfill Nos. 6 and 7. GV1 is near the northwest corner of Landfill No. 7. Low levels of methane, from 0.1% to 0.3% by volume, were detected in twelve (12) other soil-gas vents (GV6, GV7, GV8, GV9, GV11, GV12, GV15, GV16, GV19, GV20, GV23, and GV24). Because of the detection of the elevated levels of methane in GV1, MACTEC installed seven (7) additional soil-gas vents (GV25 through GV31) at approximately 50-foot spacings in the vicinity of GV1 and GV2 in the direction of planned housing units. Methane was not detected in any of these newly installed soil-gas vents. MACTEC understands routine methane testing continued by the Army has also detected elevated subsurface methane concentrations at several methane monitoring wells outside of the extent of the buried waste. Based upon the methane testing data as collected by the Army and MACTEC, MACTEC concludes that methane from Landfill Nos. 6 and 7 may potentially affect the subject property although the areas planned for new housing units appears to currently not be affected. MACTEC understands that the Army may expand the active methane capture system and will then continue routine methane monitoring to determine the extent of potential methane impacts. MACTEC recommends that the Navy and Forest City furnish information to the Army about the MACTEC methane monitoring results and request design information for the methane capture system expansion and routine monitoring results from the Army. Further, MACTEC recommends that quarterly methane monitoring of several soil gas vents (GV1, GV2, and GV27) adjacent to the housing units that are closest to Landfill No. 7 be implemented.

- IR Site 5, Excavation Area No. 8: PNA concentrations in subsurface soil samples collected in the Excavation Area No. 8 were below TACO Tier 1 soil remediation objectives for residential property use and for construction workers. Therefore, it appears that the presence of IR Site 5 has not affected the subject property. MACTEC does not recommend any further action at this location.

- Army IR Site Nos. 7 and 37, VES No. 3 and Building 377 (Former Pesticide Storage) Of the five (5) subsurface soil samples collected at VES#3, one (1) sample collected at 1 foot bgs exhibited PNA concentrations above TACO Tier 1 soil remediation objective for residential property use.

In that subsurface soil sample, the benzo(a)pyrene concentration exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Therefore, it appears that these sites have affected the subject property. MACTEC recommends remediation to remove the PNA-contaminated soil at this location. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected area. Current plans are for the demolition contractor, as part of the site development activities, to place up to 2 feet of clean soil over the location of the contaminated soil to create an engineered barrier

- IR Site 11, Vehicle and Equipment Storage Area #7 (VES#7): PNA concentrations in subsurface soil samples collected in the VES#7 area were below TACO Tier 1 soil remediation objectives for residential property use and for construction workers. However, a previous sample location at which PNAs were detected above the TACO Tier 1 residential soil remediation objectives was inaccessible to MACTEC. Therefore, the previous results at this location could not be confirmed by MACTEC. Consequently, MACTEC recommends remediation to remove the PNA-contaminated soil at this previous sample location. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected area. Current plans are for the placement of up to 5 feet of clean soil over the location of the contaminated soil by the demolition contractor as part of the site development activities. Therefore, the placement of this clean soil will create the required engineered barrier (3 feet of clean soil).

- IR Site 13, Bartlett Ravine: Of the four (4) surficial soil samples collected within Bartlett Ravine, all four (4) samples exhibited PNA concentrations above the TACO Tier 1 soil remediation objectives for residential property use. Benzo(a)pyrene concentrations in all four (4) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the ingestion pathway. Benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene concentrations also exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in one (1) soil sample. Therefore, it appears that this site has affected the subject property. MACTEC recommends remediation to remove the PNA-contaminated soils at these locations. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since these locations are in an area where no site grading or construction will take place and placement of an engineered barrier may be impractical, current plans are for risk assessment to be performed by MACTEC to determine the effect of leaving this contaminated soil in place. Approval by the IEPA will be sought for the risk assessment if the results support leaving the soil in place.

- IR Site 15, Van Horne Ravine: Of the four (4) surficial soil samples collected within Van Horne Ravine, three (3) exhibited PNA concentrations above the TACO Tier 1 soil remediation objectives for residential property use. Benzo(a)pyrene concentrations in all three (3) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Benzo(a)anthracene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene concentrations in two (2) of the four (4) soil samples also exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Indeno(1,2,3-cd)pyrene concentrations in one (1) of the four (4) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Therefore, it appears that this site has affected the subject property. MACTEC recommends remediation to remove the PNA-contaminated soils at these locations. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since these

locations are in an area where no site grading or construction will take place and placement of an engineered barrier may be impractical, current plans are for risk assessment to be performed by MACTEC to determine the effect of leaving this contaminated soil in place. Approval by the IEPA will be sought for the risk assessment if the results support leaving the soil in place.

- IR Site 16, Schenck Ravine: Of the four (4) surficial soil samples collected within Schenck Ravine, three (3) exhibited PNA concentrations and two (2) exhibited pesticide concentrations above the TACO Tier 1 soil remediation objectives for residential property use. Benzo(a)pyrene concentrations in all three (3) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Dibenzo(a,h)anthracene concentrations in two (2) of the four (4) soil samples exceeded its TACO Tier 1 residential soil remediation objective for the soil ingestion pathway. Benzo(a)anthracene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene concentrations exceeded their TACO Tier 1 residential soil remediation objectives for the ingestion pathway in one (1) of the four (4) soil samples. Concentrations of the pesticide 4,4-DDD in two (2) of the four (4) soil samples exceeded its TACO Tier 1 residential soil remediation objective for the soil ingestion pathway. Therefore, it appears that this site has affected the subject property. MACTEC recommends remediation to remove the PNA- and pesticide-contaminated soils at these locations. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since these locations are in an area where no site grading or construction will take place and placement of an engineered barrier may be impractical, current plans are for risk assessment to be performed by MACTEC to determine the effect of leaving this contaminated soil in place. Approval by the IEPA will be sought for the risk assessment if the results support leaving the soil in place.

- IR Site 17, Former Ammunition Storage Building 384: Of the two (2) subsurface soil samples collected at the former ammunition storage building, one (1) sample exhibited one (1) PNA concentration above the TACO Tier 1 soil remediation objective for residential property use. In that subsurface soil sample, the benzo(a)pyrene concentration exceeded its TACO Tier 1 residential soil remediation objective for the soil ingestion pathway. Therefore, it appears that this site has affected the subject property. MACTEC recommends remediation to remove the PNA-contaminated soil at this location. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected area. Since the location of the contaminated soil is beyond the area where site grading or construction will take place, current plans are for an engineered barrier consisting of 3 feet of clean soil to be placed by the demolition contractor as part of the site development activities and maintained over this area.

- IR Sites 18 – 20, Former Ammunition Storage Buildings and Former CAC Firing Range: PNA concentrations in subsurface soil samples collected at IR Sites 18, 19, and 20 were below TACO Tier 1 soil remediation objectives for residential property use and for construction workers. Therefore, it appears that the presence of IR Sites 18, 19, and 20 has not affected the subject property. MACTEC does not recommend any further action at this location.

- IR Site 35, Building 361 Yard Area: Of the four (4) subsurface soil samples collected at Building 361, two (2) samples collected at 2 and 3 feet bgs, respectively, exhibited PNA concentrations above the TACO Tier 1 soil remediation objective for residential property use. In both soil samples, the benzo(a)pyrene concentration exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Therefore, it appears that this site has affected the subject property. MACTEC recommends remediation to remove the PNA-contaminated soil at

these locations. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Current plans are for site grading in this area to place up to 2 feet of soil over both locations by the demolition contractor as part of the site development activities, which would create the required engineered barrier (3 feet of clean soil).

- IR Site 36, Building 368 Yard Area – Auto Mechanics Shop: Of the four (4) subsurface soil samples and one (1) surficial soil sample collected at Building 368, three (3) exhibited PNA concentrations above TACO Tier 1 soil remediation objective for residential property use. Benzo(a)pyrene concentrations exceeded TACO Tier 1 residential soil remediation objectives for the ingestion pathway in all three (3) samples while benzo(a)anthracene and benzo(b)fluoranthene concentrations also exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in the surficial soil sample. Therefore, it appears that this site has affected the subject property. MACTEC recommends remediation to remove the PNA-contaminated soil at this location. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since the locations of the contaminated soil are beyond the area where site grading or construction will take place, current plans are for an engineered barrier consisting of 3 feet of clean soil to be placed by the demolition contractor as part of the site development activities and maintained over these areas.

- Wells Ravine Tributary North: Of the ten (10) subsurface soil samples collected in the Wells Ravine Tributary North site, one (1) sample collected from 6.5 feet bgs had detected two (2) volatile organic compound (VOC) concentrations above TACO Tier 1 soil remediation objectives for residential property use. Trichloroethene exceeded its TACO Tier 1 residential soil remediation objectives for the soil inhalation pathway and the soil component of the groundwater ingestion pathway for sites with Class II groundwater in this sample. Cis-1,2-dichloroethene also exceeded its TACO Tier 1 residential soil remediation objective for the soil component to groundwater ingestion pathway for sites with Class II groundwater in the same sample. In addition, two (2) samples, collected from 1.5 and 6.5 feet bgs had detected PNA concentrations above TACO Tier 1 soil remediation objective for residential property use. Concentrations of the PNA, benzo(a)pyrene, exceeded its TACO Tier 1 residential soil remediation objective for the soil ingestion pathway in both samples. The concentrations of the PNAs, benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene, exceeded their respective TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in one (1) soil sample. The concentration of benzo(a)anthracene in this sample also exceeded its TACO Tier 1 residential soil remediation objective for the soil component of groundwater ingestion pathway for sites with Class II groundwater. In addition, the lead concentration in one (1) sample was above its TACO Tier 1 soil remediation objectives for the soil ingestion pathway and for construction workers. Therefore, it appears that this site has affected the subject property. MACTEC recommends remediation to remove the VOC-, PNA- and lead-contaminated soils at these locations. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (10 feet of clean soil, asphalt or concrete) over the affected areas. Current plans are for site grading in this area to place up to 6 feet of clean soil over both locations by the demolition contractor as part of the site development activities, which would create the required engineered barrier (10 feet of clean soil for inhalation and 3 feet of clean soil for ingestion). In addition, current plans are for an asphalt roadway to be constructed over the area where the sample collected at 6.5 feet bgs is located by the demolition contractor as part of the site development activities, which would create the required engineered barrier (asphalt pavement). Because of the shallow depth of the contaminated soil in this area and the expected

low permeability of site soils, MACTEC does not anticipate impact to groundwater associated with the contaminated soil. Also the lack of potable groundwater usage at the site should preclude ingestion of the groundwater.

- Surficial Soil With Lead, Buildings 420 - 428, 430, 431, 440, 441, 445, 447, 495, 642, 652, 657, 660, 661, 663 and 664: Of the forty-nine (49) surficial soil samples collected adjacent to twenty-three (23) buildings at Fort Sheridan, lead concentrations in forty-six (46) were detected above the TACO Tier 1 soil remediation objectives for residential property use and for construction workers. Seven (7) samples with elevated total lead concentrations were also tested for toxicity characteristic leaching procedure (TCLP) lead. TCLP lead results in six (6) of the seven (7) were above the TACO Tier 1 soil to groundwater component remediation objective for sites with Class I groundwater. Four (4) of these TCLP lead values were also above the USEPA toxicity characteristic criteria level (5 milligrams per liter) indicating that this soil could be classified as hazardous waste. Based upon the age of these buildings, it is reasonable to assume that the source of these elevated lead concentrations is lead-based paint used on the exterior surfaces of these structures. Therefore, MACTEC concludes that lead-based paint used on these buildings has affected the subject property.

  MACTEC recommends remediation to remove the lead-contaminated soils at these locations. Based upon the TCLP lead results, this soil may have to be handled and disposed of as hazardous waste. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil or asphalt or concrete cover) over the affected areas and require construction worker precautions should construction workers be potentially exposed to the impacted soil. Further, unless these buildings will be demolished, MACTEC recommends abatement or encapsulation of any remaining lead-based paint on the structures. At the locations of lead-contaminated soil, site grading is planned and will likely result in the removal of soil from this area. Consequently, current plans are for the remediation to remove the lead-contaminated soils at these locations by the demolition contractor as part of the site development activities.

- Building 368 – Vehicle Lift Area: BTEX, PNA, and barium concentrations in the three (3) subsurface soil samples collected at the Building 368 vehicle lift area were below TACO Tier 1 soil remediation objectives for residential property use and for construction workers. Therefore, it appears that the presence of these lifts has not affected the subject property. MACTEC does not recommend any further action at this location. However, MACTEC recommends removal of the lifts by a qualified removal contractor and in-field assessment of the soils in the lift area upon removal. If visible evidence of soil impact is observed during lift removal, additional soil sampling and analysis may be warranted. During lift removal, if any hydraulic oil remains in the lifts, it should also be removed and disposed of offsite. Current plans are for the removal of the hydraulic lifts by the demolition contractor as part of the site development activities.

- Building 368 – Vehicle Wash Bay: VOC, semi-volatile organic compounds (SVOC), PNA, and metals concentrations in the three (3) subsurface soil samples collected at the Building 368 vehicle wash bay area were below TACO Tier 1 soil remediation objectives for residential property use and for construction workers. Therefore, it appears that the presence of the vehicle wash bay has not affected the subject property. MACTEC does not recommend any further action at this location.

- Building 378 – Hydraulic Lift Area: Of the three (3) subsurface soil samples collected at the Building 378 hydraulic lift area, all three (3) had detected PNA concentrations above TACO Tier 1 soil remediation objectives for residential property use. Two (2) of the samples were collected

from 1 foot bgs, whereas the third was collected from 3 feet bgs. Benzo(a)pyrene concentrations in all three (3) soil samples exceeded its TACO Tier 1 residential soil remediation objective for the soil ingestion pathway. Benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene concentrations also exceeded their TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in two (2) of the samples. The concentrations of benzo(a)anthracene in these two (2) of the samples also exceeded its TACO Tier 1 residential soil remediation objectives for the soil to groundwater ingestion component for sites with Class II groundwater pathway. Therefore, it appears that this site has affected the subject property.

MACTEC recommends remediation to remove the PNA-contaminated soil at these locations. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. In addition, MACTEC recommends removal of the lifts by a qualified removal contractor and in-field assessment of the soils in the lift area upon removal. If visible evidence of soil impact is observed during lift removal, additional soil sampling and analysis may be warranted. During lift removal, if any hydraulic oil remains in the lifts, it should also be removed and disposed of offsite. Since the locations of the contaminated soil are beyond the area where site grading or construction will take place, current plans are for an engineered barrier consisting of 3 feet of clean soil to be placed by the demolition contractor as part of the site development activities and maintained over the shallow soil sample locations. In addition, the hydraulic lifts will also be removed by the demolition contractor as part of the site development activities.

1.0 INTRODUCTION

MACTEC Engineering and Consulting, Inc. (MACTEC) was contracted by Forest City Washington (Forest City) to perform a Phase II Environmental Site Assessment (ESA) at the United States Navy portion of Fort Sheridan in Highland Park, Illinois (subject property). Figure 1 shows the site location. This *Phase II Environmental Site Assessment Report* documents the activities performed during the Phase II ESA and presents findings and conclusions with regard to environmental impacts at the site.

Fort Sheridan is located in Lake County, Illinois and is bounded on the north by the City of Lake Forest, on the west by the City of Highwood, on the south by the City of Highland Park and on the east by Lake Michigan (Figure 1). The subject property is the portion of Fort Sheridan under control of the Navy and consists of approximately 206 acres of land in two non-contiguous parcels (designated as the Main Navy Property and the Westover Property) and is used for residential housing by government employees. The Main Navy Property is bound on the north by Bartlett Ravine, on the west by a chain-link fence that runs approximately adjacent to Army Buildings 133, 379, 147, 460, 432, 433, 448, 455 and 649, on the south by Walker Avenue and the east by Lake Michigan. The Westover Property is bound on the north by Army Building 200, the west by Mc Kinley Road, on the south by Army Building 99, and on the east by Army Buildings 33, 91, 90, 59, 7, 100, and 85.

1.1 Purpose and Scope

The purpose of the Phase II ESA was to determine potential environmental impacts to the subject property from conditions identified during a document review and a Phase I ESA performed by MACTEC (see *Report Of Phase I Environmental Site Assessment, NAVSTA Fort Sheridan, Naval Region Midwest Family Housing Privatization,* dated December 1, 2005, prepared by MACTEC). The scope of work performed for the Phase II ESA was based on the findings of a document review completed prior to a Phase I ESA performed by MACTEC and subsequent additional information discovered during the Phase I ESA. As part of the document review, it was determined that Phase II ESA activities were not warranted in the Westover Property. Therefore, the Westover Property will not be discussed in this report. The Phase II ESA was performed at sites at which previous reports indicated environmental impact and where remedial closure documentation was not available. The Phase II ESA was performed at the following sixteen (16) sites within the Main Property at Fort Sheridan at which previous reports indicated environmental impact and where remedial closure documentation was not available:

- Building 162 Leaking Underground Storage Tank (LUST) Site
- Buildings 800 through 806 Abandoned Underground Storage Tanks (USTs)
- Various Buildings Aboveground Storage Tanks (ASTs)
- Army IR Site No. 2 – Landfill No. 5
- Army IR Site No. 3A – Coal Storage Area (CSA) No. 3
- Army IR Site No. 5 – Excavation Area No. 8
- Army IR Site Nos. 7 and 37 – Vehicle Equipment Storage (VES) Area No. 3 and Building 377 (Former Pesticide Storage)
- Army IR Site No. 11 – VES Area No. 7
- Army IR Site No. 13 – Bartlett Ravine
- Army IR Site No. 15 – Van Horne Ravine
- Army IR Site No. 16 – Schenck Ravine
- Army IR Site Nos. 17, 18, 19, and 20 – Buildings 384, 388, 389, and 390 (Former Ammunition Storage)
- Army IR Site No. 35 – Building 361 (Photo Shop) – Yard Area
- Army IR Site No. 36 – Building 368 (Auto Mechanics Shop) – Yard Area

- Wells Ravine Tributary North
- Various Buildings – Lead in Surficial Soil

An adjacent area investigated during the Phase II ESA that is not part of the subject property was Army IR Site Nos. 3 and 4 – Landfill Nos. 6 and 7. The United States Army will retain control and management of both landfills including a 100- to 150-foot setback zone around the perimeter of both landfills.

During the Phase I ESA by MACTEC, three (3) additional areas of environmental concern that could impact the subject property were identified. A subsequent phase of investigation was performed on the following three (3) areas:

- Building 368 – Hydraulic Lift Area
- Building 368 – Vehicle Wash Bay
- Building 378 – Hydraulic Lift Area

Onsite Phase II ESA activities began on July 12, 2005 and were completed on September 27, 2005. Phase II ESA activities consisted primarily of soil sample collection and analysis of chemical contaminants known or suspected to be present at the various locations, but also included installation of landfill methane soil-gas vents and methane monitoring. Selection of sample analytical parameters was based upon review of documents related to previous environmental activities at the sites. Analytical results are summarized on tables and borehole/sample locations and soil-gas vent locations are shown on figures included herein. Supporting documentation is included in Appendices as necessary.

1.2 Report Organization

The locations of the investigation areas are shown on Figure 2. Table 1 summarizes the scope of the Phase II ESA conducted at each site. Section 2.0 of this report presents a brief description of the background of the investigation areas and previous results based upon review of available documents. The field investigation procedures are described in Section 3.0. Section 4.0 contains a summary of the analytical results. Conclusions and Recommendations based on these results are presented in Sections 5.0 and 6.0, respectively. Section 7.0 contains a list of references used in the preparation of this report.

2.0 BACKGROUND

To focus MACTEC's Phase II ESA on those portions of the subject property where the potential for environmental impact exists, MACTEC performed a preliminary review of existing environmental documents related to the subject property. The purpose of the document review was to identify onsite or offsite areas of environmental concern. Based on MACTEC's document review, a description of the portions of the subject property which warranted further investigation is provided in the following sections.

2.1 Building 162 LUST Site

Building 162 is located at the north end of the subject property and was formerly used as a bowling alley for recreational use of troops stationed at Fort Sheridan. According to the *Environmental Baseline Survey Update, Public / Private Venture Housing Privatization, Naval Station Great Lakes, Great Lakes, Illinois* prepared for Naval Facilities Engineering Command, Southern Division, dated December 2002 (EBS Update) and *Environmental Assessment for the Privatization of Family Housing Naval Station Great Lakes Illinois,* prepared for Department of the Navy, Naval Facilities, Engineering Field Division South, dated December 2004 (EA), an underground storage tank (UST) was located at Building 162 which had a release of petroleum product. Reportedly impacted soil was noted and excavated from the area. A Closure Report for this leaking underground storage tank (LUST) site was referenced in the EBS Update, but was not available to MACTEC during the document review. Neither the EBS Update nor the EA contained maps showing the UST location at Building 162 nor did they present analytical results for any previous sampling in the area.

2.2 Buildings 800 Through 806 Abandoned USTs

Buildings 800 through 806 are residential buildings located on Bullock Drive at the south end of the subject property. Each building consists of four separate two-floor housing units. According to the EBS Update, four (4) 2,000-gallon heating oil USTs were located at each building. The EBS Update also reported that the USTs were "... abandoned in place in 1980 by tearing their tops off and filling each tank with pea gravel." The report entitled *Underground Storage Tank Data Report for Buildings 800-806*, dated February 1998, prepared by United States Geological Survey (USGS) indicated that the USGS performed soil sampling at each UST location in 1997. These samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) compounds and polynuclear aromatic hydrocarbons (PNAs). One (1) PNA (benzo(a)pyrene) was detected above its current Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier 1 residential soil remediation objective in a sample collected at Building 801. No documents reviewed indicated closure and/or additional sampling at these abandoned UST locations.

2.3 Various Buildings – Heating Oil ASTs

According to the EA and EBS Update, aboveground storage tanks (ASTs) are located at various building locations at Fort Sheridan. The EA indicated that most of the ASTs had been taken out of use and their contents had been reportedly drained. A site visit conducted by MACTEC on May 19, 2005 confirmed the presence of thirty-five (35) AST sites at the subject property. The locations of the ASTs are at Buildings 336 (and an adjacent building with an unknown number), 364, 365, 369, 375, 377, 378, 420 through 431, 440, 493, 642, 652, 657, 660, 663, 664, 666. Most of the ASTs sit within a concrete secondary containment pad with sides that are approximately 12 inches high. At some locations a single AST was present; while at other locations two (2) ASTs were located on one (1) secondary containment pad. Each such secondary containment pad contains a short section of pipe that protrudes through one of

the sides. The ends of these pipe sections terminated with a valve on the exterior side of the containment pad that had been opened and rendered inoperable by removal of the valve's handle. Several ASTs that were inspected by MACTEC contained some type of liquid. During the site visit on May 19, 2005, MACTEC personnel observed an active leak from the AST at Building 375 which was also discharging through the pipe/valve in the side of the containment pad onto an adjacent asphalt-paved driveway area. No documents reviewed indicated closure and/or additional sampling at the AST locations.

2.4 Army IR Site No. 2 – Landfill No. 5

Army Installation Restoration (IR) Site No. 2 – Landfill No. 5 is located on the north end of the subject property near Buildings 162 and 378 and a portion of the southern edge of Bartlett Ravine. The northwestern section of the Landfill No. 5 extends off of the subject property. According to the *Final Feasibility Study DOD Operable Unit, Fort Sheridan, IL*, dated May 2002, prepared by Science Applications International Corporation, which summarizes the previous investigation activities and results at this site, PNAs and lead were detected in the soil and waste at Landfill No. 5 at concentrations above their TACO Tier 1 residential soil remediation objectives to a depth of 22 feet below ground surface (bgs).

2.5 Army IR Site No. 3A – CSA No. 3

The majority of the Army IR Site No. 3A - Coal Storage Area No. 3 (CSA No. 3) is located north of the subject property. According to the report entitled *Proposed Plan Coal Storage Area 3 and Landfill 5, Fort Sheridan, Illinois*, dated February 18, 2003 (Final) prepared by Kemron, this site occupies 0.5 acres of land along Chapman Road and coal had formerly been staged at this area for industrial heating use at Fort Sheridan. A portion of CSA No. 3 encroached upon the northern slope of Bartlett Ravine, particularly a northwest oriented short branch (tributary) of the ravine. According to a report entitled *Remedial Investigation/Baseline Risk Assessment Addendum, DOD Operable Unit, Fort Sheridan, IL*, dated April 2001 (RI/BRA Addendum), prepared by Science Applications International Corporation, PNAs were detected in this portion of CSA No. 3 above TACO Tier 1 residential soil remediation objectives to a depth of 4 feet bgs. The Kemron report proposed additional remedial actions to address that portion of CSA No. 3 on the subject property. It is MACTEC's understanding that the proposed remedial action was performed, but documents related to closure of this site were not available to MACTEC for review.

2.6 Army IR Site Nos. 3 and 4 – Landfill Nos. 6 and 7

Army IR Site Nos. 3 and 4 – Landfill Nos. 6 and 7 are not part of the subject property. The United States Army will retain control and management of both landfills including a 100- to 150-foot setback zone around the perimeters of both landfills.

The EBS Update reported that Landfill No. 6 is 4.163 acres and was created by filling the western portion of the former Wells Ravine. Landfill No. 6 is located west of Patten Road between 9th and 10th streets and extends west of the western boundary of the subject property. The EBS Update reported that Landfill No. 7 occupies 16.985 acres and was created by filling the eastern portion of the former Wells Ravine. Landfill No. 7 is located east of Patten Road north of the Gordon Johnson Drive housing area. Landfill gas collection occurs at both landfills and the Army verbally indicated that methane has been detected in wells outside of the extent of buried waste. The details of methane monitoring and the methane data were not made available to MACTEC for review.

2.7 Army IR Site No. 5 – Excavation Area No. 8

Army IR Site No. 5 - Excavation Area No. 8 is a portion of the subject property located adjacent to the Lake Michigan shoreline east of Buildings 803, 804, and 805. According to the RI/BRA Addendum, prepared by Science Applications International Corporation, this area was identified as a disturbed area associated with a bluff stabilization project. Previous investigations in this area identified buried debris and geophysical anomalies. Soil samples collected in the area indicated that PNAs were present at concentrations above TACO Tier 1 residential soil remediation objectives in surface and subsurface soils to a depth of 8 feet bgs. None of the documents reviewed indicated remediation had been completed to address the impacted soil at this site.

2.8 Army IR Site Nos. 7 and 37 – VES Area No. 3 and Building 377 Yard Area (Former Pesticide Storage)

Army IR Site No. 7 – Vehicle Equipment Storage Area No. 3 (VES No. 3) is located in the northern portion of the subject property east of Buildings 162 and 377 and bounded by Patten Road to the east and Finley Road to the south where vehicles were formerly parked. Previous investigations combined VES No. 3 with Army IR Site No. 37 - Building 377 Yard Area because of their proximity to one another. Building 377 was reportedly used for pesticide storage at one time. According to a report entitled *Remedial Investigation/Baseline Risk Assessment, DOD Operable Unit, Fort Sheridan, IL*, dated July 1999 (RI/BRA), prepared by Science Applications International Corporation, soil samples collected in the area indicated that PNAs were present at concentrations above TACO Tier 1 residential soil remediation objectives in surface and subsurface soils to a depth of 9 feet bgs. Pesticides were not detected above TACO Tier 1 residential soil remediation objectives. Other than the eastern portion of VES No. 3 which was remediated as part of the soil excavation and offsite disposal actions associated with the nearby Building 208 (now demolished) USTs, none of the documents reviewed indicated remediation had been completed to address the PNA-impacted soil at this site.

2.9 Army IR Site No. 11 – VES Area No. 7

Army IR Site No. 11 – Vehicle Equipment Storage Area No. 7 (VES No. 7) is located in the central portion of the subject property west of Patten Road between 2nd and 3rd Streets. The western portion of VES No. 7 extends off of the subject property. VES No. 7 is still used by Fort Sheridan personnel to store vehicles. A chain-linked fence currently surrounds the portion of the area where the vehicles are parked. According to the RI/BRA, prepared by Science Applications International Corporation, soil samples collected in the area indicated that PNAs were present at concentrations above TACO Tier 1 residential soil remediation objectives in surface and subsurface soils to a depth of 4 feet bgs. None of the documents reviewed indicated remediation had been completed to address the PNA-impacted soil at this site.

2.10 Army IR Site No. 13 – Bartlett Ravine

The northern edge of Army IR Site No. 13 – Bartlett Ravine coincides with the northern extent of the subject property. Bartlett Ravine is oriented east-west and extends eastward from a point near the intersection of Finley and Thorpe Roads to the Lake Michigan beach. The ravine contains a paved road that provides access to the beach. Concrete swales border the road and accept runoff from tributary ditches along the north and south slopes of the ravine. According to the RI/BRA and RI/BRA Addendum, prepared by Science Applications International Corporation, soil samples collected in the area indicated that PNA and pesticide concentrations were above TACO Tier 1 residential soil remediation objectives in surficial soil and sediment samples in Bartlett Ravine. None of the documents reviewed indicated remediation had been completed to address the PNA-impacted soil at this site.

2.11 Army IR Site No. 15 – Van Horne Ravine

Army IR Site No. 15 – Van Horne Ravine is located in the central portion of the subject property and is a wooded, undeveloped portion of the subject property. Van Horne Ravine is oriented east-west and extends eastward from Patten Road near Building 361 to the Lake Michigan beach. This ravine also appears to accept runoff from tributary ditches along the north and south slopes of the ravine. According to the RI/BRA and RI/BRA Addendum, prepared by Science Applications International Corporation, soil samples collected in the area had PNA concentrations which were above the TACO Tier 1 residential soil remediation objectives in surficial soil and sediment samples. In addition, elevated levels of pesticides were detected, but were below TACO Tier 1 residential soil remediation objectives. None of the documents reviewed indicated remediation had been completed to address the PNA-impacted soil at this site.

2.12 Army IR Site No. 16 – Schenck Ravine

Army IR Site No. 16 – Schenck Ravine is located in the southern portion of the site and is a wooded, undeveloped portion of the subject property. Schenck Ravine is oriented east-west and extends eastward from a point approximately 450 feet west of Patten Road to the Lake Michigan beach. This ravine also appears to accept runoff from tributary ditches along the north and south slopes of the ravine. According to the RI/BRA and RI/BRA Addendum, prepared by Science Applications International Corporation, soil samples collected in the area indicated that PNA and pesticide concentrations were above TACO Tier 1 residential soil remediation objectives in surficial soil and sediment samples collected in Schenck Ravine. None of the documents reviewed indicated remediation had been completed to address the PNA- and pesticide-impacted soil at this site.

2.13 Army IR Site Nos. 17, 18, 19, and 20 – Buildings 384, 388, 389, and 390 (Former Ammunition Storage)

Army IR Site Nos. 17, 18, 19, and 20 – Buildings 384, 388, 389, and 390 (Former Ammunition Storage) are located in the eastern, central portion of the subject property near Building 368. Currently, Buildings 388, 389, and 390 are partially or fully demolished. According to the RI/BRA, prepared by Science Applications International Corporation, these sites were used for the usage, storage, and transport of small arms, ammunition and bulk explosives. Soil samples collected in these areas indicated that PNA concentrations were above TACO Tier 1 residential soil remediation objectives in surficial soil. None of the documents reviewed indicated remediation had been completed to address the PNA-impacted soil at these sites.

2.14 Army IR Site No. 35 – Building 361 (Photo Shop) – Yard Area

Army IR Site No. 35 – Building 361 (Photo Shop) – Yard Area is located in the central portion of the subject property near the intersection of Patten and McKibben Roads. Building 361 was used as a photographic processing laboratory. According to the RI/BRA, prepared by Science Applications International Corporation, soil samples collected in the yard area around Building 361 had PNA concentrations above TACO Tier 1 residential soil remediation objectives to a depth of 5 feet bgs. None of the documents reviewed indicated remediation had been completed to address the PNA-impacted soil at this site.

2.15 Army IR Site No. 35 – Building 368 (Auto Mechanics Shop) – Yard Area

Army IR Site No. 35 – Building 368 (Auto Mechanics Shop) – Yard Area is located in the central portion of the subject property northeast of Building 361 and near Buildings 384, 388, 389, and 390. Building 368 was used for vehicle maintenance and washing. According to the RI/BRA, prepared by Science

Applications International Corporation, PNA concentrations were above TACO Tier 1 residential soil remediation objectives in surface and subsurface soil samples collected to a depth of 9 feet bgs. In addition, the lead concentration in a surficial sample collected from a stormwater swale adjacent to Building 368 exceeded its TACO Tier 1 residential soil remediation objectives. None of the documents reviewed indicated remediation had been completed to address the PNA- and lead-impacted soils at this site.

2.16 Wells Ravine Tributary – North

The Wells Ravine Tributary – North is an apparent tributary to Wells Ravine located northwest of Landfill No. 7 and extends to the vicinity of Building 369. According to the RI/BRA Addendum, storm sewer realignment during the interim remedial action at Landfill No. 7 encountered buried waste, debris, and fill in this area. Material removed from the excavations during this interim action was consolidated on Landfills No. 6 and No. 7. The RI/BRA reported that "Trash that extended beyond the planned interim remedial action construction was left in place . . ." PNA and lead concentrations in surface and subsurface soil samples collected from this area exceeded TACO Tier 1 residential soil remediation objectives to a depth of 3.5 feet bgs. None of the documents reviewed indicated remediation had been completed to address the PNA- and lead-impacted soil at this site.

2.17 Various Buildings – Lead in Surficial Soil

Various former barracks and commercial buildings located in the central and southern portions of the subject property west of Patten Road were previously sampled for lead in surficial soils adjacent to the sides of the buildings. According to a report entitled *Comprehensive Environmental Survey, Fort Sheridan – 31 WWII Army Buildings 419, 420, 421,422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 440, 441, 443, 445, 447, 449, 454, 493, 494, 495, 642, T-652, T-657, T-660, T-661, T-663, T-664, T-666, Fort Sheridan, Illinois,* dated October 5, 2004, prepared by Versar, Inc., one (1) or more samples collected at Buildings 420 through 431, 440, 441, 445, 447, 495, 642, 652, 657, 660, 661, 663, and 664 had lead concentrations above its TACO Tier 1 residential soil remediation objective. None of the documents reviewed indicated remediation had been completed to address the lead-impacted soil at these sites.

2.18 Phase I ESA Areas of Concern

Subsequent to MACTEC's initial document review, MACTEC performed a Phase I ESA at the subject property during July and August 2005. The purpose of the Phase I ESA was to identify onsite or offsite areas of environmental concern that could impact the subject property. Based on the Phase I ESA, the following recognized environmental conditions (RECs), which warranted further investigation, were identified:

- Building 368 – Three former hydraulic lifts were observed inside Building 368. Floor staining was observed around the former hydraulic lifts.
- Building 368 – A manhole which may have been used as a grease trap to contain petroleum products washed from the vehicles during the car washing process was discovered.
- Petroleum-product related staining was observed in the vicinity of one air compressor located inside Building 378. Trenches that appeared to be associated with former hydraulic lifts were also observed in the area of staining inside Building 378.

2.19 Site Geology/Hydrogeology

As discussed in MACTEC's Phase I ESA Report (MACTEC, 2005), the subject site and surrounding area

the surficial soils at the subject property are classified as URBANLAND, which consists of silty clay loam, silt loam and silty clay. The soil on steep slopes is best suited for providing wildlife habitat and forestry opportunities. Silt loam is found on level to gently sloping terrain that is somewhat poorly drained. Clayey subsoil limits water movement and maintains a seasonal high water table.

The surficial deposits are typically less than 100 feet thick. Surficial geologic materials in the area surrounding the subject site consist of Wadsworth Till Member of the Wedron Formation. The Wedron Formation consists of till that occurs in sheet like deposits separated by beds of water laid sand, gravel, or silt, and varies in thickness. The Wedron Formation is a member of the Wisconsinan Stage of the Pleistocene Series of the Quaternary System. The Wadsworth Till Member consists mostly of gray clayey and silty clayey till with few pebbles and cobbles. The Wedron Formation in this area is underlain by bedrock of the Niagaran series of the Silurian System, which is comprised primarily of dolomite type rock.

Based on test boring records from Phase II ESA activities, subsurface soils consist generally of a brownish-gray silty clay, with some sand and/or gravel of varying percentages, to a depth of 20 feet bgs, the maximum depth explored. At some locations, small amounts of non-native fill and/or debris were noted, primarily at depths less than 4 feet bgs.

The topography of Fort Sheridan is generally characterized as flat with deeply incised, branching ravines, three (3) of which are within the boundaries of the subject property. Bartlett Ravine is now a paved road that provides access to the beach; however, this ravine still carries water to Lake Michigan in roadside ditches. A small stream flows through Shenck's Ravine to Lake Michigan and carries water much of the year. Van Horne Ravine is dry most of the year. The eastern border of the subject property is characterized by a steeply-sloped bluff that extends to the western shore of Lake Michigan. A topographic map review indicates a generally gentle easterly gradient, towards the top of the bluff. The ground surface slopes abruptly from the bluff line to Lake Michigan with a relief ranging from about 40 to 70 feet.

Groundwater generally flows in directions sub-parallel to the ground surface slopes and under the influence of gravity toward points of discharge such as creeks, swamps, drainage swales, or pumped groundwater wells. Based on our review of the topographic map, the interpreted natural groundwater gradient across the subject site is expected to be generally east towards Lake Michigan and the sides of the bluff and/or ravines are expected to be points of groundwater discharge.

3.0 FIELD INVESTIGATION

The Phase II ESA consisted of collecting soil samples (surface and subsurface), and measuring methane at temporarily-installed soil-gas vents to evaluate areas of concern identified during MACTEC's document review and the three (3) additional areas of environmental concern that could impact the subject property that were identified during the Phase I ESA conducted by MACTEC. The Phase II ESA investigation was performed during July, August, and September 2005. The Phase II ESA was performed as presented in this section using the procedures specified. Representative photographs of the soil sampling activities are provided in Appendix A.

3.1 Underground Utility Location Procedures

Prior to commencement of any intrusive activities, Illinois' Joint Utility Locating Information for Excavators (JULIE) was notified by the drilling subcontractor a minimum of 48-hours prior to commencement of work so any underground utilities near or within the drilling sites could be located and marked. A joint meeting was held with the utility company representatives at the subject property prior to commencement of each phase for the Phase II ESA. Maps showing the boring locations were provided. Additionally, the physical location of the proposed soil borings were marked with white spray paint and white wire flags for utility mark-out purposes.

3.2 Soil Sampling Procedures

3.2.1 Surface Soil

All surface soil samples (0 to 0.5 feet below ground surface) were collected using a stainless-steel trowel and/or spoon after clearing away any debris on the ground surface. A new pair of nitrile gloves was donned by the MACTEC scientist between each sampling location. Equipment decontamination procedures are discussed below.

3.2.2 Subsurface Soil - Geoprobe

Most of the subsurface soil samples submitted for laboratory analysis were collected using a Geoprobe® rig provided by Paramount Environmental Services, Inc., Portage, Indiana. The Geoprobe® rig was equipped with a four-foot long stainless-steel sampler lined with a new plastic liner (for each sample interval). Soil samples were collected continuously. A MACTEC geologist or engineer visually logged the soil samples from each location using the Unified Soil Classification System. All Test Boring Records are contained in Appendix B. At several locations, Geoprobe® rig access was not possible, therefore, MACTEC collected subsurface soil samples using a stainless-steel hand augering device. Additionally headspace samples were conducted by placing a small volume of each 2-foot sample increment into a zip-lock bag. The bag was sealed to allow any vapors in the soil to come into equilibrium with the air in the bag. The sample was then screened by piercing the bag with the tip of a photoionization detector (PID). The highest PID response was then recorded on the boring log. The soil sample selected for laboratory analysis at each sampling location was based on the head space PID readings, visual observations (i.e. staining), or depth. If PID readings were not detected and there was no visible staining, then a soil sample was selected based on depth below ground surface. A new pair of nitrile gloves was donned by the MACTEC geologist/engineer between each sampling location. Upon completion of sampling, each Geoprobe® borehole was backfilled with soil cuttings and/or granular bentonite. Sampling equipment decontamination procedures are discussed below. If a stainless steel trowel or spoon was used to assist in sample collection, it was decontaminated as described below.

3.2.3 Sample Handling Procedures

Soil samples were collected in laboratory-supplied, USEPA-approved four-ounce glass sample jars. Volatile organic soil sample collection procedures conformed to SW-846 Method 5035 "Closed System Purge and Trap and Extraction for Volatile Organics in Soil and Wastes Sample". To reduce the possibility of cross contamination between samples, a new pair of disposable latex gloves was donned by the sampler for each sample collected. Upon collection, the sample jars were labeled with the site name, sample number, date, time, and sampler initials, and were sealed in Ziploc bags and placed in an iced cooler. A chain-of-custody form was updated as samples were collected. Samples were submitted to the laboratory on a daily basis. For all sampling events, analytical services were provided by STAT Analysis Corporation (STAT) of Chicago, Illinois under direct contract by MACTEC. Samples were picked up at the site by STAT or hand-delivered by the MACTEC sampler under a completed chain of custody form to the laboratory. Laboratory Reports are contained in Appendix C.

3.2.4 Equipment Decontamination Procedures

Soil sampling equipment was decontaminated by washing in an Alconox detergent and potable water solution, rinsing with potable water, and then final rinsing with distilled water. In addition, a new single-use, disposable plastic liner was used for each sample interval collected using the Geoprobe® rig.

3.3 Methane Monitoring

3.3.1 Soil-Gas Vent Installation Procedures

Soil-gas vents GV1 through GV24 were installed along the north and south sides of both Landfill Nos. 6 and 7 on September 7, 8, and 9, 2005. GV1 through GV24 were located approximately 100 to 150 feet outside of the footprint of each of the two landfills. The Army will retain control and management of both landfills including an area extending to 100 to 150 feet beyond the perimeter of the landfills and construction of housing units will be prohibited within this 100- to 150-foot setback zone. With the exception of GV2, each soil-gas vent was advanced to 20 feet bgs and was fitted with a 15-foot well screen. At GV2, Geoprobe® drive point refusal was encountered at 15 feet bgs; therefore, it was terminated at 15 feet bgs and was fitted with a 10-foot well screen.

Because of the detection of elevated methane in GV1, MACTEC installed seven (7) additional soil-gas vents (GV25 through GV31) at approximately 50-foot spacings in the vicinity of GV1 and GV2 in the direction of planned housing units. Soil-gas vents GV25 through GV31 were installed on September 26, 2005. Each of these additional soil-gas vents was installed similar to GV1, and GV3 through GV24.

All soil-gas vents were constructed in the Geoprobe® borehole after advancing the hollow drilling casing fitted with an expendable point. In this way, samples were not collected from the boreholes. Upon advancement of the drilling casing to the desired depth, the soil-gas vents were constructed using 1-inch diameter polyvinyl chloride (PVC) well casing with either a 15-foot section of slotted (0.010-inch) well screen (depending on the location) inside the casing, except as noted above for soil-gas vent GV2. As the casing was withdrawn, the expendable point was left in the ground. The annular space around the well screen was backfilled with sand to a height of approximately 1 foot above the top of the well screen. The remainder of the annular space was backfilled with bentonite chips to ground surface. The tops of the soil-gas vents were finished with flush-mounted protective lids set in a 12-inch by 12-inch concrete pad.

3.3.2 Methane Monitoring Procedures

Methane, in addition to carbon dioxide and oxygen, was monitored at the soil-gas vents (GV1 through GV31) using a GEM™ 2000 Landfill Gas Extraction Monitor. Monitoring of soil-gas vents GV1 through

GV24 was performed on September 8, 9 and 12, 2005. In addition, a second round of methane monitoring was performed on September 12, 2005 to supplement the initial round of monitoring at GV1, GV6, GV7, GV8, GV9, GV11, GV13, and GV15. Following installation of GV25 through GV31, MACTEC performed a third round of monitoring at GV1, GV2 and GV25 through GV31 on September 27, 2005.

Prior to monitoring, the GEM™ 2000 methane gas meter was calibrated in the field using a calibration gas composed of 50% methane and 25% carbon dioxide. The depth of water in each well and total well depth was measured to calculate the length of well screen exposed above the water table, if present. At the soil-gas vents installed around the footprints of Landfill Nos. 6 and 7, exposed screen lengths ranged from 0.73 feet in GV1 to 14.16 feet in GV24 during the first two methane monitoring events. During the third methane monitoring event, the groundwater table in soil-gas vents GV1 and GV29 was measured at 0.35 feet and 2.01 feet, respectively, above the top of the well screen. In the remainder of the soil-gas vents monitored on September 27, 2005, the exposed screen lengths ranged from 1.51 feet in GV25 to 14.33 feet in GV26.

Individual wells were monitored by attaching a piece of flexible tubing to a fitting attached to the top of each PVC vent riser pipe and recording methane, carbon dioxide and oxygen readings at approximately one minute intervals for a length of 5 to 10 minutes. A personal air pump, operating at approximately 1 liter per minute (L/min), was attached to the tubing between the well and the landfill gas meter. Based upon the available screen length at each and flow rate of the booster pump, at least 5 to 10 liters (or at least one (1) well volume) were extracted from the soil-gas vents during the monitoring period. When monitoring was completed, the flexible tubing was removed and a PVC slip cap was replaced on top of the well.

3.4 Investigation-Derived Wastes

All leftover soils were placed back into boreholes. Bentonite chips were placed into the boreholes to make up any deficit. All acetate sleeves and used gloves were taken offsite and disposed in trash receptacles.

3.5 Area-Specific Procedures

The investigation performed for the Phase II ESA at each area of concern is described in the sections that follow. Table 1 summarizes the potential environmental concerns of each of the sites and the Phase II scope of work performed.

3.5.1 Building 162 LUST Site

Review of existing documents indicated that impacted soil was noted during the tank removal at the Building 162 LUST site and was apparently later excavated. However, documentation of remediation of the impacted soil at this LUST site was not available during the document review. To confirm the soil impacts at this LUST site, MACTEC completed three (3) soil borings (162-A, 162-B, and 162-C) and collected soil samples using a Geoprobe® rig in accordance with the procedures indicated in Section 3.1 above. These borings were located on the north and east sides of Building 162 as shown on Figure 3. The location of the former UST was not shown in documents reviewed, but based upon features associated with other visible utilities at the building, it was surmised that the tank was formerly located near the northeast corner of the building. The soil borings and sampling at this site was performed on August 30, 2005. Each boring was completed to a depth of 12 feet bgs and one (1) soil sample was collected from each boring. The soil samples collected from borings 162-A, 162-B, and 162-C were submitted to MACTEC's subcontracted laboratory, STAT, for BTEX analysis using USEPA Test Method

5035/8260B and PNA analysis using USEPA Test Method 8270C. BTEX and PNAs are heating oil LUST indicator parameters as specified by IEPA in UST regulations.

3.5.2 Buildings 800 Through 806 Abandoned USTs

Review of existing documents indicated that four (4) previously abandoned heating oil USTs are located at each of the Buildings 800 through 806. Further, documents indicated that it was unclear if any residual product in the tanks at the time of abandonment had been removed and the interior of the tanks adequately cleaned. In addition, previous soil sampling at each UST site indicated that PNAs in soil at one (1) location were present at concentrations that exceeded TACO Tier 1 residential soil remediation objectives. Documentation of remediation of the PNA-impacted soil at this location was not available during the document review. To confirm the previous soil impacts associated with the abandoned USTs at Buildings 800 through 806 and evaluate any subsequent impacts, MACTEC completed one (1) soil boring at each of the twenty-eight (28) UST locations. The soil borings were completed using a Geoprobe® rig and soil samples were collected in accordance with the procedures indicated in Section 3.1 above.

Soil boring locations are shown on Figure 4. Since the documents reviewed by MACTEC did not indicate the exact UST locations, MACTEC attempted to determine the approximate locations of the USTs using a magnetometer. Onsite Navy personnel verbally indicated that the USTs were located relatively close to the buildings. Due to the presence of underground utilities close to the building and other surficial magnetic interference, definitive magnetometer readings could not be obtained. Therefore, MACTEC selected soil boring locations based upon the apparent location of the USTs as adjusted for marked buried utilities. Soil boring were differentiated with an identification consisting of the Building Number followed by an A, B, C, D (i.e. soil borings 800-A, 800-B, 800-C, and 800-D were the four (4) borings located at Building 800). The soil borings at Buildings 800 through 806 were performed on July 12 and 13, 2005. Each boring was completed to a depth of 8 feet bgs and one (1) soil sample was collected from each boring. The soil samples collected at Buildings 800 through 806 were submitted to MACTEC's subcontracted laboratory, STAT, for BTEX analysis using USEPA Test Method 5035/8260B and PNA analysis using USEPA Test Method 8270C. BTEX and PNAs are heating oil LUST indicator parameters as specified by IEPA in UST regulations.

3.5.3 Various Buildings – Heating Oil ASTs

Documents reviewed by MACTEC revealed the presence of heating oil ASTs at various buildings at Fort Sheridan. A site visit conducted by MACTEC on May 19, 2005 confirmed the presence of thirty-five (35) AST sites at the subject property. The locations of the ASTs are at Buildings 336 (and an adjacent building with an unknown number), 364, 365, 369, 375, 377, 378, 420 through 431, 440, 493, 642, 652, 657, 660, 663, 664, 666. Most of the ASTs sit within a concrete secondary containment pad with sides that are approximately 12 inches high. At some locations, a single AST was present, while at other locations two (2) ASTs were located on one (1) secondary containment pad. Each such secondary containment pad contains a short section of pipe that protrudes through one of the sides. The ends of these pipe sections terminated with a valve on the exterior side of the containment pad that had been opened and rendered inoperable by removal of the valve's handle. During the site visit on May 19, 2005, MACTEC personnel observed an active leak from the AST at Building 375 which was also discharging through the pipe/valve in the side of the containment pad onto an adjacent asphalt-paved driveway area.

Exceptions to the described configuration of the ASTs and containment pads were observed at several sites. At Buildings 336 and 369, the ASTs were located on approximately 10-foot by 10-foot concrete pads that did not have sides, thereby providing no containment. These concrete pads at each location were surrounded on all sides by the prevailing grassy areas at approximately the same grade elevation.. At Building 440, there was (1) AST located on an asphalt paved driveway area. At Building 493, there

were two (2) ASTs located in a utility room. The floor of this utility room was approximately the same elevation as the surrounding grade and constructed of concrete. There was no containment pad at this location. At Buildings 378 and 421, 422, and 663, there were concrete containment pads without ASTs. These pads were constructed just as the AST pads were, suggesting that the ASTs had been removed at such locations, potentially because the ASTs had leaked. Therefore, MACTEC also performed soil borings at these locations.

During the document review, MACTEC did not encounter any reports that indicated whether previous soil sampling at the AST sites had occurred. To evaluate whether contaminants associated with the ASTs had impacted the subject property, MACTEC completed one (1) soil boring at each of the thirty-five (35) AST locations. The soil borings were generally completed using a Geoprobe® rig and soil samples were collected in accordance with the procedures indicated in Section 3.1 above. At those AST sites that included a containment pad, each soil boring was completed immediately adjacent to and within 1 to 2 feet (depending on access of the Geoprobe® rig) end of the pipe/valve on the exterior side of the containment pad. At the AST sites at Buildings 336, 369, and 440, the soil borings were located on an arbitrarily selected side of the pad. At Buildings 493, since the ASTs were inside the building, the soil boring was located as close as possible to the utility room. In addition, at Buildings 369 and 421, Geoprobe® rig access was limited to no more than 5 to 7 feet from the pad due to fencing and dense shrubbery, respectively. Therefore, the soil borings at Buildings 369 and 421 were completed with a hand auger.

AST soil boring locations are shown on Figures 3, 5, 7, 8 and 14. AST soil borings were differentiated with an identification consisting of the Building Number followed by an A or, in the case of multiple AST sites at the same building, a B or C. Thus, for the three (3) AST sites at Building 378, soil borings 378-A, 378-B, and 378-C were performed. AST soil borings were performed on July 13, 14, 15, and 18, 2005. Each boring was completed to a depth of 4 feet bgs and one (1) soil sample was collected from each boring. The soil samples collected from the AST borings were submitted to MACTEC's subcontracted laboratory, STAT, for BTEX analysis using USEPA Test Method 5035/8260B and for PNA analysis using USEPA Test Method 8270C. BTEX and PNAs are heating oil LUST indicator parameters as specified by IEPA in UST regulations.

3.5.4 Army IR Site No. 2 – Landfill No. 5

Documents reviewed by MACTEC revealed the presence of PNAs and lead above the TACO Tier 1 residential soil remediation objectives in the Landfill No. 5 area. To evaluate whether these previously detected contaminants had impacted the subject property beyond the landfill extents, MACTEC completed six (6) soil borings (LF5-A, LF5-B, LF5-C, LF5-D, LF5-E, and LF5-F) along a 100-foot set-back boundary around Landfill No. 5 using a Geoprobe® rig in accordance with the procedures indicated in Section 3.1. The 100-foot setback has been established as a buffer zone around the landfill within which housing unit construction is prohibited. Ten (10) soil samples were collected from these borings. Soil boring locations are shown on Figure 3. The soil borings and sampling at this site was performed on August 30, 2005. Each boring was completed to a depth of 12 feet bgs and at least one (1) soil sample was collected from each boring. An additional sample was collected from four (4) of the Landfill No. 5 borings due to elevated PID readings. Each of the soil samples collected from the Landfill No. 5 borings were submitted to MACTEC's subcontracted laboratory, STAT, for PNA analysis using USEPA Test Method 8270C and one (1) soil sample from each boring was analyzed for Resource Conservation and Recovery Act (RCRA) metals using USEPA Test Methods 6020 and 7471A [mercury]. In addition, the samples collected from borings LF5-A, LF5-B, LF5-D, and LF5-F were analyzed for volatile organic compounds (VOCs) by USEPA Test Method 5035/8260B.

3.5.5 Army IR Site No. 3A – CSA No. 3

Documents reviewed by MACTEC revealed the presence of PNAs above the TACO Tier 1 residential soil remediation objectives and elevated levels of metals in the CSA No. 3 area. Documentation of remediation of the PNA-impacted soil at the CSA No. 3 area was not available during the document review. To confirm the soil impacts at this site, MACTEC completed three (3) soil borings (Coal Store-A, Coal Store-B, and Coal Store-C) in CSA No. 3 using a hand auger in accordance with the procedures indicated in Section 3.1. Because CSA No. 3 is partially located on the northern slope of Bartlett Ravine, access to the preferred sampling locations with a Geoprobe® rig was not possible. Soil boring locations are shown on Figure 3. The soil borings and sampling at this site was performed on August 31, 2005. Each boring was completed to a depth of 4 feet bgs and one (1) soil sample was collected from each boring for laboratory analysis. Each of the soil samples collected from the CSA No. 3 borings were submitted to MACTEC's subcontracted laboratory, STAT, for PNA analysis using USEPA Test Method 8270C and RCRA metals using USEPA Test Methods 6020 and 7471A [mercury].

3.5.6 Army IR Site Nos. 3 and 4 – Landfill Nos. 6 and 7

US Army personnel indicated to MACTEC that routine methane monitoring at Landfill Nos. 6 and 7 indicated the presence of methane in subsurface soil outside of the extent of landfill waste. The methane monitoring data was not available to MACTEC for review to determine the potential impact to the subject property. Consequently, to evaluate the impact of methane from the landfills on the subject property, MACTEC installed thirty-one (31) soil-gas vents (GV1 through GV31) and performed methane monitoring in each as described in Section 3.3 above. The locations of the soil-gas vents are shown on Figure 9.

3.5.7 Army IR Site No. 5 – Excavation Area No. 8

Documents reviewed by MACTEC revealed the presence of PNAs above the TACO Tier 1 residential soil remediation objectives in the Excavation Area No. 8 area. Documentation of remediation of the PNA-impacted soil at this site was not available during the document review. To confirm the soil impacts at this site, MACTEC completed three (3) soil borings (Ex Area 8-A, Ex Area 8-B, and Ex Area 8-C) in Excavation Area No. 8 using a hand auger in accordance with the procedures indicated in Section 3.1. Because Excavation Area No. 8 is located on the bluff (the slope from the prevailing grade to Lake Michigan beach), access with a Geoprobe® rig was not possible. Soil boring locations are shown on Figure 10. The soil borings and sampling at this site was performed on August 31, 2005. Each boring was completed to a depth of 8 feet bgs and one (1) soil sample was collected from each boring for laboratory analysis. Each of the soil samples collected from the Excavation Area No. 8 borings were submitted to MACTEC's subcontracted laboratory, STAT, for PNA analysis using USEPA Test Method 8270C.

3.5.8 Army IR Site Nos. 7 and 37 – VES Area No. 3 and Building 377 (Former Pesticide Storage)

Review of existing documents indicated that PNAs in soil at both VES Area No. 3 and Building 377 sites were present at concentrations that exceeded TACO Tier 1 residential soil remediation objectives. Because of their proximity to one another and the similar nature of their soil impacts, these sites were combined during the Phase II ESA. Documentation regarding remediation of the PNA-impacted soil at these sites was not available during the document review. To confirm the reported soil impacts at these sites, MACTEC completed five (5) soil borings (VES#3-A, VES#3-B, VES#3-C, VES#3-D and VES#3-E) and collected soil samples using a Geoprobe® rig in accordance with the procedures indicated in Section 3.1 above. These borings were located in the gravel and asphalt paved areas of Building 162 and north and south of Building 377 as shown on Figure 3 approximately at previous soil boring locations.

The soil borings and sampling at these sites were completed on July 14, 2005. One (1) boring, VES#3-A, was completed to a depth of 10 feet bgs, while the rest were completed to a depth of 8 feet bgs. One (1) soil sample was collected from each boring. Each soil sample collected from borings VES#3-A, VES#3-B, VES#3-C, VES#3-D and VES#3-E was submitted to MACTEC's subcontracted laboratory, STAT, for PNA analysis using USEPA Test Method 8270C. In addition, due to elevated PID readings, the sample collected from boring VES#3-E was also analyzed for BTEX compounds using USEPA Test Method 5035/8260B.

3.5.9 Army IR Site No. 11 – VES Area No. 7

Review of existing documents indicated that PNAs in soil at the VES Area No. 7 site were present at concentrations that exceeded TACO Tier 1 residential soil remediation objectives. Documentation regarding remediation of the PNA-impacted soil at this site was not available during the document review. To confirm the reported soil impacts at this site, MACTEC completed three (3) soil borings (VES#7-A, VES#7-B, and VES#7-C) and collected soil samples using a Geoprobe® rig in accordance with the procedures indicated in Section 3.1 above. These borings were located in the grassy area outside of the locked fenced area where vehicles are currently parked at this site as shown on Figure 6 at approximately the same locations as previous soil borings. The soil borings and sampling at these sites were completed on July 14 and 15, 2005. Borings VES#7-A and VES#7-B were completed to a depth of 8 feet bgs, whereas VES#7-C was completed to a depth of 12 feet bgs. One (1) soil sample was collected from each boring. Each soil sample collected from borings VES#7-A, VES#7-B, and VES#7-C was submitted to MACTEC's subcontracted laboratory, STAT, for PNA analysis using USEPA Test Method 8270C.

3.5.10 Army IR Site No. 13 – Bartlett Ravine

Review of existing documents indicated that PNAs and pesticides in surficial soil/sediment samples collected from Bartlett Ravine were present at concentrations that exceeded TACO Tier 1 residential soil remediation objectives. Documentation regarding remediation of the impacted soil at this site was not available during the document review. To confirm the reported soil impacts at this site, MACTEC collected four (4) surficial soil/sediment samples (BR-1, BR-2, BR-3, and BR-4) in accordance with the procedures indicated in Section 3.2.1 above. The Bartlett Ravine soil sample locations are shown on Figure 11. The previous sampling locations, where contaminant impacts were noted, were at the far west end of the ravine, along the north slope and at the mouth of the ravine at the beach. The Bartlett Ravine samples (BR-1, BR-2, and BR-3) were collected from three (3) tributary swales in the southern slope of the ravine to evaluate impacts to surficial soil from runoff from portions of the subject property south of the ravine. The fourth sample (BR-4) was collected at the mouth of the ravine at the beach to confirm impacts there. The Bartlett Ravine samples were collected on July 19, 2005. Each soil sample was submitted to MACTEC's subcontracted laboratory, STAT, for PNA analysis using USEPA Test Method 8270C and pesticide analysis using USEPA Test Method 8081.

3.5.11 Army IR Site No. 15 – Van Horne Ravine

Review of existing documents indicated that PNAs in surficial soil/sediment samples collected from Van Horne Ravine were present at concentrations that exceeded TACO Tier 1 residential soil remediation objectives. In addition, elevated levels of pesticides were detected, but were below TACO Tier 1 residential soil remediation objectives. Documentation regarding remediation of the impacted soil at this site was not available during the document review. To confirm the reported soil impacts at this site, MACTEC collected four (4) surficial soil/sediment samples (VH-1, VH-2, VH-3, and VH-4) in accordance with the procedures indicated in Section 3.2.1 above. The Van Horne Ravine sample locations are shown on Figure 12. The previous sampling locations were at the base of the ravine at approximately the same locations as the MACTEC samples. The Van Horne Ravine samples were

collected on July 19, 2005. Each soil sample was submitted to MACTEC's subcontracted laboratory, STAT, for PNA analysis using USEPA Test Method 8270C and pesticide analysis using USEPA Test Method 8081.

3.5.12 Army IR Site No. 16 – Schenck Ravine

Review of existing documents indicated that PNAs in surficial soil/sediment samples collected from Schenck Ravine were present at concentrations that exceeded TACO Tier 1 residential soil remediation objectives. In addition, elevated levels of pesticides were detected, but were below TACO Tier 1 residential soil remediation objectives. Documentation regarding remediation of the impacted soil at this site was not available during the document review. To confirm the reported soil impacts at this site, MACTEC collected four (4) surficial soil/sediment samples (SR-1, SR -2, SR -3, and SR -4) in accordance with the procedures indicated in Section 3.2.1 above. The Schenck Ravine sample locations are shown on Figure 13. The previous sampling locations were at the base of the ravine at approximately the same locations as the MACTEC samples. The Schenck Ravine samples were collected on July 19, 2005. Each soil sample was submitted to MACTEC's subcontracted laboratory, STAT, for PNA analysis using USEPA Test Method 8270C and pesticide analysis using USEPA Test Method 8081.

3.5.13 Army IR Site Nos. 17, 18, 19, and 20 – Buildings 384, 388, 389, and 390 (Former Ammunition Storage)

Review of existing documents indicated that PNAs in surficial soil samples collected at each of these buildings previously used for ammunition storage were present at concentrations that exceeded TACO Tier 1 residential soil remediation objectives. Because of their proximity to one another and the similar nature of their soil impacts, these sites were combined during the Phase II ESA. Documentation regarding remediation of the PNA-impacted soil at these sites was not available during the document review. To confirm the reported soil impacts at these sites, MACTEC completed five (5) soil borings (384-A, 384-B, 388, 389, and 390). The soil borings were generally completed using a Geoprobe® rig and soil samples were collected in accordance with the procedures indicated in Section 3.1 above. Because a fence with a narrow gate blocked Geoprobe® rig access to Building 384, the soil borings (384-A and 384-B) at this location were completed with a hand auger. Each of the borings were completed as shown on Figure 14 at approximately the same locations as previous soil borings. The soil borings and sampling at these sites were completed on July 14, 2005. Each boring was completed to a depth of 4 feet bgs. One (1) soil sample was collected from each boring. Each soil sample collected from borings 384-A, 384-B, 388, 389, and 390 was submitted to MACTEC's subcontracted laboratory, STAT, for PNA analysis using USEPA Test Method 8270C.

3.5.14 Army IR Site No. 35 – Building 361 (Photo Shop) – Yard Area

Review of existing documents indicated that PNAs in soil at the Building 361 (Photo Shop) – Yard Area site were present at concentrations that exceeded TACO Tier 1 residential soil remediation objectives. Documentation regarding remediation of the PNA-impacted soil at this site was not available during the document review. To confirm the reported soil impacts at this site, MACTEC completed four (4) soil borings (361A, 361B, 361C, and 361D) and collected soil samples using a Geoprobe® rig in accordance with the procedures indicated in Section 3.1 above. These borings were located in the yard area on the north, east, and west sides of Building 361 as shown on Figure 6 at approximately the same locations as previous soil borings. The soil borings and sampling at this site was completed on July 12, 2005. Each boring was completed to a depth of 8 feet bgs. One (1) soil sample was collected from each boring. Each soil sample collected from borings 361A, 361B, 361C, and 361D was submitted to MACTEC's subcontracted laboratory, STAT, for PNA analysis using USEPA Test Method 8270C. In addition, due to elevated PID readings, the sample collected from boring 361D was also analyzed for BTEX compounds using USEPA Test Method 5035/8260B.

3.5.15 Army IR Site No. 35 – Building 368 (Auto Mechanics Shop) – Yard Area

Review of existing documents indicated that PNAs in soil at the Building 368 (Auto Mechanics Shop) – Yard Area site were present at concentrations that exceeded TACO Tier 1 residential soil remediation objectives. Documentation regarding remediation of the PNA-impacted soil at this site was not available during the document review. To confirm the reported soil impacts at this site, MACTEC completed four (4) soil borings (368A, 368B, 368F, and 368G) and collected soil samples using a Geoprobe® rig in accordance with the procedures indicated in Section 3.1 above. These borings were located in the yard areas on the north, east, and west sides of Building 368 as shown on Figure 14 approximately at previous soil boring locations. In addition, a surficial soil/sediment sample (368-SS) was collected at a previous surficial soil/sediment sample location in a swale located south of Building 368 in which PNA and lead concentrations also exceeded TACO Tier 1 residential soil remediation objectives. The soil borings and sampling at this site was completed on July 14, 2005. One (1) boring (368A) was performed to a depth of 10 feet bgs. The remaining borings were completed at a depth of 8 feet bgs. One (1) soil sample was collected from each boring. The surficial soil/sediment sample collected in the swale was collected at a depth of approximately 6 inches. Each soil sample collected from borings 368A, 368B, 368F, and 368G and the swale sample (368-SS) was submitted to MACTEC's subcontracted laboratory, STAT, for PNA analysis using USEPA Test Method 8270C. In addition, the swale sample (368-SS) was analyzed for lead using USEPA Test Method 6020.

3.5.16 Wells Ravine Tributary – North

Documents reviewed by MACTEC revealed the presence of buried waste material in this area. In addition, PNAs and lead were detected above the TACO Tier 1 residential soil remediation objectives in soil samples collected in the Wells Ravine Tributary North area. Documentation regarding remediation of the PNA- and lead-impacted soil at this site was not available during the document review. To confirm the reported soil impacts at this site, MACTEC completed eight (8) soil borings (B-49A, B-73A, B-73B, B-74A, B-74B, B-74C, LF7-A, and LF7-B) in the area using a Geoprobe® rig in accordance with the procedures indicated in Section 3.1. The Phase II ESA soil borings and sampling at this site was performed on August 30, 2005. Soil boring locations are shown on Figure 15.

Prior to performing these Phase II ESA borings, MACTEC performed six (6) borings (B-49, B-52, B-57, B-73, B-74, and B-75) on August 26, 2005 in this area to evaluate the geotechnical properties of the soil and determine whether waste material was still present. During the geotechnical boring program, MACTEC observed limited amounts of fill material and noted elevated PID readings in the eastern borings (B-49, B-73, and B-74). Therefore, MACTEC performed the Phase II ESA borings to confirm these observations and confirm the previous PNA and lead impacts. Phase II ESA borings B-49A, B-73B, and B-74A were located within 5 feet of the geotechnical borings with similar identification numbers. The Phase II ESA borings, B-73B, B-74B, and B-74C, were completed to evaluate soil conditions in areas generally between the geotechnical boring locations. Phase II ESA borings LF7-A and LF7-B were completed to evaluate whether the elevated PID readings noted in the geotechnical borings were originating from materials present in the Landfill No. 7.

Ten (10) soil samples were collected from these borings. Each boring was completed to a depth of 12 feet bgs and at least one (1) soil sample was collected from each boring. An additional sample was collected from borings LF7-A and LF7-B due to elevated PID readings. Each of the soil samples collected from the Wells Ravine Tributary North area borings were submitted to MACTEC's subcontracted laboratory,

STAT, for VOC analysis by USEPA Test Method 5035/8260B, PNA analysis using USEPA Test Method 8270C and lead analysis using USEPA Test Method 6020.

3.5.17 Various Buildings – Lead in Surficial Soil

Documents reviewed by MACTEC indicated that lead in surficial soil samples was detected above the TACO Tier 1 residential soil remediation objectives collected at Buildings 420 through 431, 440, 441, 445, 447, 495, 642, 652, 657, 660, 661, 663, and 664. The previous reports only indicated on which side of the building the previous samples were collected. Therefore, MACTEC collected surficial soil samples approximately centered along the building edge on the same sides of the buildings as those samples that exceeded the TACO Tier 1 residential soil remediation objectives indicated in the previous reports. Figures 7 and 8 show the surficial soil sample locations. Each of the surficial soil samples were submitted to MACTEC's subcontracted laboratory, STAT, for lead analysis using USEPA Test Method 6020. Due to detection of elevated lead concentrations in the samples, MACTEC subsequently directed STAT to analyze seven (7) of the surficial soil samples for toxicity characteristic leaching procedure (TCLP) lead using USEPA Test Methods 1311/6020.

3.5.18 Building 368 – Vehicle Lifts

During the Phase I ESA site visit conducted at the site, MACTEC discovered three (3) vehicle lifts inside of Building 368. To evaluate whether the hydraulic oils that may have been present in the lifts had impacted the subject property, MACTEC performed three (3) soil borings (368C, 368D, and 368E) and collected soil samples using a Geoprobe® rig in accordance with the procedures indicated in Section 3.1. These borings were located inside of Building 368 as close as possible to the lifts without coming in contact with them as shown on Figure 14. The soil borings and sampling at this site was completed on July 14, 2005. Each boring was performed to a depth of 8 feet bgs and one (1) soil sample was collected from each boring. Each soil sample collected from borings 368C, 368D, and 368E was submitted to MACTEC's subcontracted laboratory, STAT, for BTEX compound analysis by USEPA Test Method 5035/8260B, PNA analysis using USEPA Test Method 8270C and barium analysis using USEPA Test Method 6020. BTEX, PNAs and barium are hydraulic oil LUST indicator parameters as specified by IEPA in UST regulations. The IEPA UST regulations are applicable to vehicle lift systems.

3.5.19 Building 368 – Vehicle Wash Bay

During the Phase I ESA site visit conducted at the site, MACTEC discovered a manhole which may have been used as a grease trap to contain petroleum products washed from the vehicles during the car washing process. To evaluate whether potential vehicle washing operations had impacted the subject property, MACTEC performed three (3) soil borings (368-AA, 368-AB, and 368-AC) and collected soil samples using a Geoprobe® rig in accordance with the procedures indicated in Section 3.1. These borings were located inside of Building 368 as close as possible to the grease trap on the southeast, southwest, and northwest sides without coming in contact with it as shown on Figure 14. The soil borings and sampling at this site was completed on August 29, 2005. Each boring was performed to a depth of 8 feet bgs and one (1) soil sample was collected from each boring. Each soil sample collected from borings 368-AA, 368-AB, and 368-AC was submitted to MACTEC's subcontracted laboratory, STAT, for VOC analysis by USEPA Test Method 5035/8260B, semi-VOC (SVOC) and PNA analysis using USEPA Test Method 8270C, and RCRA metals analysis using USEPA Test Method 6020.

3.5.20 Building 378 – Hydraulic Lift Area

During the Phase I ESA site visit conducted at the site, MACTEC discovered three (3) vehicle lifts inside of Building 378 near the southeast corner. To evaluate whether the hydraulic oils that may have been present in the lifts had impacted the subject property, MACTEC performed three (3) soil borings (378-

AA, 378-AB, and 378-AC) and collected soil samples using a Geoprobe® rig in accordance with the procedures indicated in Section 3.1. Due to lack of access to the building with a Geoprobe® rig, these borings were located outside of Building 378 as close as possible to the south and east sides of the building as shown on Figure 3. The soil borings and sampling at this site was completed on August 29, 2005. Each boring was performed to a depth of 8 feet bgs and one (1) soil sample was collected from each boring. Each soil sample collected from borings 378-AC, 378-AB, and 378-AC was submitted to MACTEC's subcontracted laboratory, STAT, for VOC analysis by USEPA Test Method 5035/8260B, SVOC and PNA analysis using USEPA Test Method 8270C, and RCRA metals analysis using USEPA Test Method 6020.

4.0 RESULTS

The results of the Phase II ESA are presented in this Section. Analytical results of the samples collected for the Phase II ESA are summarized in Tables 2 through 6 and Tables 8 through 21. Table 7 contains the methane monitoring results for the soil-gas vents. Soil sample analytical results included in these tables are compared to TACO Tier 1 Remediation Objectives for 1) Residential Properties, 2) the Soil Component of the Groundwater Ingestion Exposure Route for Class II groundwater, and 3) Construction Workers. In addition, background values for counties within the metropolitan statistical areas are listed on the tables as published in an IEPA document discussing background PNA concentrations. Generally, comparison to the background levels is only permissible with approval from the IEPA evaluated on a site-by site basis. Since this site is not entered into an IEPA cleanup program at this point, the background values are only listed for reference. The complete analytical data packages from the laboratory are included in Appendix C.

4.1 Building 162 LUST Site

Three (3) subsurface soil samples, one (1) from each boring conducted at the Building 162 LUST site (162-A, 162-B, and 162-C) were collected to evaluate the impact of this site on the subject property. All soil samples were analyzed for BTEX and PNAs. Results are summarized on Table 2.

No BTEX compounds were detected in the samples collected from 162-A, 162-B, and 162-C. Several PNAs including anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, fluoranthene, phenanthrene, and pyrene were detected in one (1) or more of the samples. With the exception of benzo(a)pyrene, none of the PNA concentrations exceeded their respective TACO Tier 1 residential soil remediation objectives. Benzo(a)pyrene was detected at a concentration of 0.16 milligrams per kilogram (mg/kg) in the sample from boring 162-B collected at a depth of 5 to 7 feet bgs. The TACO Tier 1 residential soil remediation objective for benzo(a)pyrene for the soil ingestion pathway is 0.09 mg/kg.

4.2 Buildings 800 Through 806 Abandoned USTs

Twenty-eight (28) subsurface soil samples were collected from the twenty-eight (28) soil borings completed in the Building 800 through 806 abandoned UST area to evaluate the impact of this site on the subject property. All soil samples were analyzed for BTEX and PNAs. Results are summarized on Table 3.

Benzene, ethylbenzene, and xylenes were not detected in any of the samples. Toluene was detected in two (2) samples, but at concentrations below its TACO Tier 1 residential soil remediation objectives.

Two (2) to eight (8) PNAs were detected in four (4) of the samples. The PNAs detected included acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, naphthalene, phenanthrene, and pyrene. None of the concentrations of PNAs, however, exceeded their respective TACO Tier 1 residential soil remediation objectives.

4.3 Various Buildings – Heating Oil ASTs

Thirty-five (35) subsurface soil samples were collected from the thirty-five (35) soil borings completed at the various AST sites to evaluate the impact of the ASTs on the subject property. All soil samples were analyzed for BTEX and PNAs. Results are summarized on Table 4.

Benzene was not detected in any of the samples. Toluene, ethylbenzene, and xylenes were each detected in three (3) of the samples, but at concentrations below their respective TACO Tier 1 residential soil remediation objectives.

Twenty-two (22) of the samples did not have any PNAs detected. Each of the sixteen (16) PNAs (acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene) were detected in two (2) samples. The remaining eleven (11) samples had one (1) to ten (10) PNAs detected.

Concentrations of PNAs exceeded their respective TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in four (4) samples (336-C collected from 1 to 2 feet bgs, 375-A collected from 1 to 2 feet bgs, 378-C collected from 1 to 3 feet bgs, and 493-A collected from 3 to 4 feet bgs). Benzo(a)pyrene exceeded its objective of 0.09 mg/kg in each of the four (4) samples, ranging in concentration from 0.33 mg/kg to 1.1 mg/kg. Dibenzo(a,h)anthracene, exceeded its objective of 0.09 mg/kg in three (3) samples, ranging in concentration from 0.092 mg/kg to 0.2 mg/kg. Benzo(a)anthracene exceeded its objective of 0.9 mg/kg in each of the two (2) samples, ranging in concentration from 0.97 mg/kg to 1.2 mg/kg. Benzo(b)fluoranthene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 1.5 mg/kg. In addition, in one (1) sample (425-A collected from 1 to 2 feet bgs), naphthalene was detected at 3.4 mg/kg which is above its TACO Tier 1 soil remediation objective for the construction worker inhalation pathway of 1.8 mg/kg.

4.4 Army IR Site No. 2 – Landfill No. 5

Ten (10) subsurface soil samples were collected from the six (6) soil borings (LF5-A, LF5-B, LF5-C, LF5-D, LF5-E, and LF5-F) conducted in the proximity of Landfill No. 5 to evaluate the impact of this site on the subject property. One (1) sample was collected from each boring conducted for PNA and RCRA metal analysis. An additional sample was collected for VOC analysis from four (4) of the Landfill No. 5 borings due to elevated PID readings. Results are summarized on Table 5.

One (1) VOC, carbon disulfide, was detected in the four (4) samples collected for VOC analysis. The concentration of carbon disulfide was below its TACO Tier 1 residential soil remediation objective.

Several PNAs including anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene were detected in three (3) of the Landfill No. 5 area samples (LF5-B-1 collected from 0.5 to 2 feet bgs, LF5-C collected from 2 to 4 feet bgs, and LF5-D-1 collected from 1 to 2 feet bgs). At least one (1) PNA exceeded its respective TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in each of these samples. Benzo(a)pyrene exceeded its objective of 0.09 mg/kg in each of the three (3) samples, ranging in concentration from 0.11 mg/kg to 0.95 mg/kg. Dibenzo(a,h)anthracene, exceeded its objective of 0.09 mg/kg in two (2) samples, ranging in concentration from 0.16 mg/kg to 0.22 mg/kg. Benzo(a)anthracene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 1.1 mg/kg. Benzo(b)fluoranthene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 1.0 mg/kg.

4.5 Army IR Site No. 3A – CSA No. 3

Three (3) subsurface soil samples were collected from the three (3) soil borings (Coal Store-A, Coal Store-B, and Coal Store-C) conducted in CSA No. 3 to evaluate the impact of this site on the subject

property. One (1) sample was collected from each boring for PNA and RCRA metal analysis. Results are summarized on Table 6.

Several PNAs including anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene were detected in two (2) of the CSA No.3 samples, Coal Store 3-B collected from 2 feet bgs and Coal Store 3-C collected from 3.25 feet bgs. At least two (2) PNAs exceeded their respective TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in each of these samples. Benzo(a)pyrene exceeded its objective of 0.09 mg/kg in both samples, ranging in concentration from 0.24 mg/kg to 1.8 mg/kg. Benzo(a)anthracene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 3.8 mg/kg. Benzo(b)fluoranthene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 2.8 mg/kg. Dibenzo(a,h)anthracene exceeded its objective of 0.09 mg/kg in one (1) sample with a concentration of 0.14 mg/kg.

Seven (7) of the eight (8) RCRA metals were detected in at least (1) sample. These metals included arsenic, barium, cadmium, chromium, lead, mercury, and selenium. With the exception of the lead levels in two (2) samples, all of the metals concentrations were below the TACO Tier 1 soil remediation objectives for residential properties. Lead concentrations in Coal Store 3-B collected from 2 feet bgs and Coal Store 3-C collected from 3.25 feet bgs were 410 mg/kg and 440 mg/kg, respectively, which exceed the TACO Tier 1 residential soil remediation objective for the soil ingestion pathway, and for construction workers, of 400 mg/kg.

4.6 Army IR Site Nos. 3 and 4 – Landfill Nos. 6 and 7

Results of methane monitoring at the thirty-one soil-gas vents (GV1 through GV31) are summarized on Table 7 and indicate measurable methane was present in several soil-gas vents. GV1 produced maximum methane concentrations of 1 to 2% by volume during the monitoring conducted on September 8 and 12, 2005. This methane concentration corresponds to 20-40% of the Lower Explosion Limit (LEL) for methane. During the subsequent monitoring conducted on September 27, 2005, the methane concentration in GV1 was initially measured at 9% by volume which corresponds to almost 2 times the LEL for methane. GV6, GV7, GV8, GV9, GV11, GV12, GV15, GV16, GV19, GV20, GV23, and GV24 all produced maximum methane concentrations of 0.1 to 0.3% by volume. GV2, GV3, GV4, GV5, GV10, GV13, GV14, GV17, GV18, GV21, and GV25 through GV31 all produced 0% methane concentrations.

Two (2) subsurface soil samples were collected for laboratory analysis from two (2) of the twenty-four (24) soil-gas vent boreholes in the vicinity of the Wells Ravine Tributary – North. The results of this analysis are discussed below in Section 4.16.

4.7 Army IR Site No. 5 – Excavation Area No. 8

Three (3) subsurface soil samples, one (1) from each hand auger boring conducted within Excavation Area 8 (Ex Area 8-A, Ex Area 8-B, Ex Area 8-C) were collected to evaluate the impact of this site on the subject property. All soil samples were analyzed for PNAs. Results are summarized on Table 8.

No PNA compounds were detected in the samples collected from Ex Area 8-A, Ex Area 8-B, Ex Area 8-C.

4.8 Army IR Site Nos. 7 and 37 – VES Area No. 3 and Building 377 (Former Pesticide Storage)

Five (5) subsurface soil samples were collected from the five (5) soil borings (VES#3-A, VES#3-B, VES#3-C, VES#3-D, VES#3-E) conducted in Vehicle Storage Area 3 to evaluate the impact of this site on the subject property. One (1) sample was collected from each boring for PNA analysis. In addition, due to elevated PID readings, the sample collected from the VES#3-E boring was analyzed for BTEX. Results are summarized on Table 9.

BTEX was not detected in the sample collected from the VES#3-E boring.

At least eleven (11) PNAs (anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene) were detected in VES#3-A collected from 9-10 feet bgs and VES#3-D collected from 1-2 feet bgs. Four (4) other PNAs (acenaphthene, acenaphthylene, fluorene, and naphthalene) were also detected in VES#3-A. The concentration of benzo(a)pyrene (0.32 mg/kg) detected in soil sample VES#3-A exceeded its TACO Tier 1 residential soil remediation objective for the soil ingestion pathway (0.09 mg/kg).

4.9 Army IR Site No. 11 – VES Area No. 7

Three (3) subsurface soil samples were collected from the three (3) soil borings (VES#7-A, VES#7-B, VES#7-C) conducted in Vehicle Storage Area 7 to evaluate the impact of this site on the subject property. One (1) sample was collected from each boring for PNA analysis. Results are summarized on Table 10.

Ten (10) PNAs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene) were detected in VES#7-C collected from 2-3 feet bgs and five (5) PNAs (benzo(a)anthracene, chrysene, fluoranthene, phenanthrene, and pyrene) were detected in VES#7-A collected from 1 to 2 feet bgs. No PNAs were detected in the sample collected from boring VES#7-B. The concentrations of detected PNAs in the other samples were below their respective TACO Tier 1 residential soil remediation objectives.

4.10 Army IR Site No. 13 – Bartlett Ravine

Four (4) surficial soil samples (BR-1, BR-2, BR-3, BR-4) were collected in Bartlett Ravine to evaluate the impact of this site on the subject property. Each sample was submitted for PNA and pesticide analysis. Results are summaried on Table 11.

All sixteen (16) PNAs (acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene) were detected in BR-4. BR-1, BR-2, and BR-3 had detections of at least ten (10) PNAs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene) Anthracene, dibenzo(a,h)anthracene, fluorene, and naphthalene were also detected in BR-1 and anthracene was also detected in BR-2. At least one (1) PNA exceeded its respective TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in each of these samples. Benzo(a)pyrene exceeded its objective of 0.09 mg/kg in all four (4) samples, ranging in concentration from 0.13 mg/kg to 4.3 mg/kg. Benzo(a)anthracene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 4.8 mg/kg. Benzo(b)fluoranthene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 4.4 mg/kg. Dibenzo(a,h)anthracene exceeded its objective of 0.09 mg/kg in one (1) sample with a concentration of

0.39 mg/kg. Indeno(1,2,3-cd)pyrene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 1.0 mg/kg.

Pesticides 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT were detected in all four (4) samples collected at Bartlett Ravine. The concentration of detected pesticides in these samples was below their respective TACO Tier 1 residential soil remediation objectives.

4.11 Army IR Site No. 15 – Van Horne Ravine

Four (4) surficial soil samples (VH-1, VH-2, VH-3, VH-4) were collected in Van Horne Ravine to evaluate the impact of this site on the subject property. Each sample was submitted for PNA and pesticide analysis. Results are summaried on Table 12.

All sixteen (16) PNAs (acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene) were detected in VH-1. At least five (5) PNAs (benzo(b)fluoranthene, chrysene, fluoranthene, phenanthrene, and pyrene) were detected in VH-2, VH-3, and VH-4. Acenapthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, fluorene, and indeno(1,2,3-cd)pyrene were also detected in VH-2 and VH-3. Napthalene was also detected in VH-3. At least one (1) PNA exceeded its respective TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in VH-1, VH-2, and VH-3. Benzo(a)pyrene exceeded its objective of 0.09 mg/kg in three (3) samples, ranging in concentration from 0.33 mg/kg to 8.4 mg/kg. Benzo(a)anthracene exceeded its objective of 0.9 mg/kg in two (2) samples, ranging in concentration from 1.1 to 6.8 mg/kg. Benzo(b)fluoranthene exceeded its objective of 0.9 mg/kg in two (2) samples, ranging in concentration from 1.4 to 8.2 mg/kg. Dibenzo(a,h)anthracene exceeded its objective of 0.09 mg/kg in two (2) samples, ranging in concentration from 0.15 to 0.8 mg/kg. Indeno(1,2,3-cd)pyrene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 5.2 mg/kg.

Pesticides 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT were detected in samples VH-1, VH-2, and VH-3 collected at Van Horne Ravine. The concentration of detected pesticides in these samples was below their respective TACO Tier 1 residential soil remediation objectives.

4.12 Army IR Site No. 16 – Schenck Ravine

Four (4) surficial soil samples (SR-1, SR-2, SR-3, SR-4) were collected in Schenck Ravine to evaluate the impact of this site on the subject property. Each sample was submitted for PNA and Pesticides analysis. Results are summaried on Table 13.

At least eleven (11) PNAs (anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene) were detected in SR-1, SR-2, and SR-3. Four (4) additional PNAs (acenaphthene, dibenzo(a,h)anthracene, fluorene, and naphthalene) were detected in SR-1 and three (3) additional PNAs (acenaphthene, dibenzo(a,h)anthracene, and fluorene) were detected in SR-3. SR-4 had only two (2) PNAs (naphthalene and phenanthrene) detected. At least one (1) PNA exceeded its respective TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in SR-1, SR-2, and SR-3. Benzo(a)pyrene exceeded its objective of 0.09 mg/kg in three (3) samples, ranging in concentration from 0.15 mg/kg to 3.9 mg/kg. Benzo(a)anthracene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 5.3 mg/kg. Benzo(b)fluoranthene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 5.1 mg/kg. Dibenzo(a,h)anthracene exceeded its

objective of 0.09 mg/kg in two (2) samples, ranging in concentration from 0.096 to 0.85 mg/kg. Indeno(1,2,3-cd)pyrene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 2.6 mg/kg.

Pesticides 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT were detected in all four samples collected from Schenck Ravine. The concentration of 4,4'-DDD in two (2) samples ranging in concentration from 3.7 to 11 mg/kg exceed the TACO Tier 1 residential soil remediation objective for the soil ingestion pathway of 3 mg/kg.

4.13 Army IR Site Nos. 17, 18, 19, and 20 – Buildings 384, 388, 389, and 390 (Former Ammunition Storage)

Five (5) subsurface soil samples were collected from three (3) soil borings (388, 389, and 390) and two (2) hand auger borings (384-A and 384-B) in the Former Ammunition Storage Buildings and Former CAC Firing Range to evaluate the impact of this site on the subject property. One (1) sample was collected from each boring for PNA analysis. Results are summarized on Table 14.

Fifteen (15) PNAs (acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene) were detected in 384-B collected from 0.75-1 feet bgs. Five (5) PNAs (benzo(a)anthracene, chrysene, fluoranthene, phenanthrene, and pyrene) were detected in 384-A collected from 0.75 to 1 feet bgs. Six (6) PNAs (benzo(a)anthracene, benzo(b)fluoranthene, chrysene, fluoranthene, phenanthrene, and pyrene) were detected in samples 388, 389, and 390 all collected from 1 to 2 feet bgs. In addition, 388 had detections of benzo(a)pyrene and benzo(k)fluoranthene; while 390 had additional detections of benzo(a)pyrene, benzo(g,h,i)perylene, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene. The concentration of benzo(a)pyrene (0.32 mg/kg) detected in soil sample 384-B exceeded its TACO Tier 1 residential soil remediation objective for the soil ingestion pathway (0.09 mg/kg).

4.14 Army IR Site No. 35 – Building 361 (Photo Shop) – Yard Area

Four (4) subsurface soil samples were collected from the four (4) soil borings (361A, 361B, 361C, and 361D) conducted at Building 361 to evaluate the impact of this site on the subject property. One (1) sample was collected from each boring for PNA analysis. In addition, due to elevated PID readings, the sample collected from the 361D boring was analyzed for BTEX. Results are summarized on Table 15.

Toluene and total xylenes were detected in sample 361D at levels below their respective TACO Tier 1 residential soil remediation objectives. No other BTEX compounds were detected.

At least thirteen (13) PNAs (anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene) were detected in 361A collected from 2 to 3 feet bgs and 361D collected from 3 to 4 feet bgs. In addition, acenaphthene and dibenzo(a,h)anthracene were also detected in the sample from boring 361A. Only three (3) PNAs (benzo(b)fluoranthene, fluoranthene, and pyrene) were detected in 361C collected from 1 to 2 feet bgs. The concentrations of benzo(a)pyrene in the samples collected from borings 361A and 361D of 0.48 mg/kg and 0.16 mg/kg, respectively, exceeded its TACO Tier 1 soil remediation objective for the soil ingestion pathway of 0.09 mg/kg.

4.15 Army IR Site No. 36 – Building 368 (Auto Mechanics Shop) – Yard Area

Four (4) subsurface soil samples were collected from the four (4) soil borings (368A, 368B, 368F, and 361G) along with a single surficial sediment sample (368-SS) collected in Building 368 Yard Area to evaluate the impact of this site on the subject property. One (1) sample was collected from each boring or sediment sample location for PNA analysis. 368-SS was also submitted total lead analysis. The results are summarized on Table 16.

No PNAs were detected in the sample collected from boring 368A. Four (4) PNAs (chrysene, fluoranthene, phenanthrene, and pyrene) were detected in 368B collected from 1 foot bgs. At least ten (10) PNAs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene) were detected in samples 368F collected from 1 to 3 feet bgs and 368G collected from 1-3 feet bgs. Anthracene was also detected in the 368F sample. Fifteen (15) PNAs (acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene) were detected in 368-SS collected from 0.5 feet bgs. At least one (1) PNA exceeded its respective TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in the 368F, 368G, and 368-SS samples. Benzo(a)pyrene exceeded its objective of 0.09 mg/kg in all three (3) samples, ranging in concentration from 0.11 mg/kg to 0.78 mg/kg. Benzo(a)anthracene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 1.1 mg/kg. Benzo(b)fluoranthene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 1.1 mg/kg.

Lead was detected in the 368-SS sample at 200 mg/kg which is below its TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway and for construction workers of 400 mg/kg.

4.16 Wells Ravine Tributary – North

Ten (10) subsurface soil samples were collected from the eight (8) soil borings (B-49A, B-73A, B-73B, B-74A, B-74B, B-74C, LF7-A, and LF7-B) conducted within the Wells Ravine Tributary - North to evaluate the impact of this site on the subject property. One (1) sample was collected from B-49A, B-73A, B-73B, B-74A, B-74B, B-74C and two (2) samples were collected from LF7-A and LF7-B with each sample submitted for VOCs, PNA, and lead analysis. Results are summarized on Table 17.

Five (5) VOCs (acetone, benzene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and trichloroethene) were detected in LF7-A-1 collected from 6.5 to 8 feet bgs. Two (2) VOCs (acetone and 2-butanone) were detected in B-74C collected from 1 to 4 feet bgs. One (1) VOC (acetone) was detected in B-73B collected from 1 to 2.5 feet bgs. The concentration of cis-1,2-dichloroethene detected in LF7-A-1 (2.6 mg/kg) exceeded TACO Tier 1 soil component of the groundwater ingestion pathway for sites with Class II groundwater (1.1 mg/kg). The concentration of trichloroethene found in LF7-A-1 (6.9 mg/kg) exceeded TACO Tier 1 residential soil remediation objective for the soil inhalation pathway (5 mg/kg) and the TACO Tier 1 soil component of the groundwater ingestion pathway for sites with Class II groundwater (0.3 mg/kg).

All sixteen (16) PNAs (acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene) were detected in LF7-A-1 collected from 6.5 to 8 feet bgs. Seven (7) PNAs (benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, naphthalene, phenanthrene, and pyrene) were detected in B-74B collected from 1.5 to 3 feet bgs. Three (3) PNAs (chrysene, fluoranthene, and pyrene) were detected in B-73B collected

from 1 to 2.5 feet bgs. Three (3) PNAs (fluoranthene, phenanthrene, and pyrene) were detected in B-49A collected from 1 to 4 feet bgs. One (1) PNA (phenanthrene) was detected in LF7-A collected from 1 to 3 feet bgs. At least one (1) PNA exceeded its respective TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in B-74B and LF7-A-1. Benzo(a)pyrene exceeded its objective of 0.09 mg/kg in both samples, at concentrations of 0.12 mg/kg and 11 mg/kg, respectively. Benzo(b)fluoranthene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 12 mg/kg. Dibenzo(a,h)anthracene exceeded its objective of 0.09 mg/kg in one (1) sample with a concentration of 1.4 mg/kg. Indeno(1,2,3-cd)pyrene exceeded its objective of 0.9 mg/kg in one (1) sample with a concentration of 5.2 mg/kg. The concentration of benzo(a)anthracene found in sample LF7-A-1 (15 mg/kg) exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway (0.9 mg/kg) and the soil component of the groundwater ingestion pathway for sites with Class II groundwater (8 mg/kg).

Lead was detected in all ten (10) soil samples, ranging from 11 mg/kg to 1,400 mg/kg. The concentration of total lead found in LF7-A-1 (1,400 mg/kg) exceeded its TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway (400 mg/kg) and the TACO Tier 1 construction worker objective for the soil ingestion pathway (400 mg/kg).

4.17 Various Buildings – Lead in Surficial Soil

Of the forty-nine (49) surficial soil samples collected adjacent to twenty-three (23) buildings at Fort Sheridan, forty-six (46) exhibited lead concentrations above the TACO Tier 1 soil remediation objective for the soil ingestion pathway and for construction workers (400 mg/kg for both). Lead concentrations that exceeded the TACO Tier 1 residential soil remediation objectives ranged from 520 mg/kg in samples 420-Pb-2 and 430-Pb-1 to 16,000 mg/kg in sample 423-Pb-2. Seven (7) samples with elevated total lead concentrations were also tested for TCLP lead. TCLP lead results in six (6) of the seven (7) were above the TACO Tier 1 soil to groundwater component remediation objective for sites with Class II groundwater of 0.1 mg/kg. Four (4) of these TCLP lead values were also above the USEPA toxicity characteristic criteria level of 5 milligrams per liter (mg/L) indicating that this soil could be classified as hazardous waste.

4.18 Building 368 – Vehicle Lifts

Three (3) subsurface soil samples were collected from the three (3) soil borings (368C, 368D, and 368E) conducted on the interior of Building 368 to evaluate the impact of this site on the subject property. One (1) sample was collected from each boring for BTEX, PNA, and barium analysis. Results are summarized on Table 19.

Toluene, ethylbenzene, and xylenes were not detected in any of the samples. Benzene was detected in one (1) sample, but at a concentration below its TACO Tier 1 residential soil remediation objectives.

Five (5) PNAs (benzo(a)anthracene, chrysene, fluoranthene, phenanthrene, and pyrene) were detected in 368E collected from 2 to 4 feet bgs and 368C collected from 2 to 4 feet bgs. In addition, benzo(a)pyrene and benzo(b)fluoranthene were also detected in the 368C sample. One (1) PNA (naphthalene) was detected in 368D collected from 2 to 4 feet bgs. The concentrations of detected PNAs in these samples were below their respective TACO Tier 1 residential soil remediation objectives.

Barium was detected in all three (3) soil samples. The concentrations of barium detected were all below its TACO Tier 1 residential soil remediation objective.

4.19 Building 368 – Vehicle Wash Bay

Three (3) subsurface soil samples were collected from the three (3) soil borings (368-AA, 368-AB, 368-AC) conducted on the interior of Building 368 to evaluate the impact of the vehicle wash bay on the subject property. One (1) sample was collected from each boring for VOCs, SVOCs, PNAs, and RCRA Metals analysis. Results are summarized on Table 20.

Acetone and 2-butanone were both detected in sample 368-AA collected from 1.5 to 2.5 feet bgs at concentrations below their respective TACO Tier 1 residential soil remediation objectives. No other VOC compounds were detected in these samples.

Bis(2-ethylhexyl)phthalate was detected in both samples collected from boring 368-AA collected from 1.5 to 2.5 feet bgs and boring 368-AB collected from 4 to 5.5 feet bgs at concentrations below its TACO Tier 1 residential soil remediation objective. 2-methylnaphthalene was detected in the 368-AA sample at a concentration below its TACO Tier 1 residential soil remediation objective.

Seven (7) PNAs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, fluoranthene, phenanthrene, and pyrene) were detected in sample 368-AC collected from 1 to 4 feet bgs. Naphthalene and phenanthrene were detected in the 368-AA sample and naphthalene was detected in the 368-AB sample. The concentrations of detected PNAs in these samples were below their respective TACO Tier 1 residential soil remediation objectives.

Six (6) metals (arsenic, barium, cadmium, chromium, lead, and mercury) were detected in all three (3) soil samples. In addition, selenium was detected in the 368-AA sample. None of the metal concentrations detected exceeded TACO Tier 1 residential soil remediation objectives.

4.20 Building 378 – Hydraulic Lift Area

Three (3) subsurface soil samples were collected from the three (3) soil borings (378-AA, 378-AB, 378-AC) conducted at Building 378 to evaluate the impact of the hydraulic lift area on the subject property. One (1) sample was collected from each boring for VOCs, SVOCs, PNAs, and RCRA Metals analysis. Results are summarized on Table 21.

No VOC compounds were detected in these samples.

SVOC analysis of the sample 378-AA collected from 1 to 4 feet bgs indicated detections of bis(2-ethylhexyl)phthalate, carbazole, and dibenzofuran at concentrations below their respective TACO Tier 1 residential soil remediation objectives. SVOC analysis of the sample 378-AC collected from 3 to 4 feet bgs indicated detections of 2-methylnaphthalene and carbazole at concentrations below their respective TACO Tier 1 residential soil remediation objectives.

At least twelve (12) PNAs (anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene) were detected in all three (3) samples. Four additional PNAs (acenaphthene, acenaphthylene, fluorene, and naphthalene) were detected in the samples collected from the 378-AA and 378-AC samples. At least one (1) PNA exceeded its respective TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in all three samples. Benzo(a)pyrene exceeded its objective of 0.09 mg/kg in each sample , ranging in concentration from 0.24 mg/kg to 12 mg/kg. Benzo(b)fluoranthene exceeded its objective of 0.9 mg/kg in two (2) samples, ranging in concentration from 8.9 to 14 mg/kg. Dibenzo(a,h)anthracene exceeded its objective of 0.09 mg/kg in two (2) samples, ranging in concentration from 0.83 to 0.95 mg/kg. Indeno(1,2,3-cd)pyrene

exceeded its objective of 0.9 mg/kg in two (2) samples, ranging in concentration from 4.9 to 6.4 mg/kg. The concentration of benzo(a)anthracene found in samples 378-AA (11 mg/kg) and 378-AC (8.9 mg/kg) exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway (0.9 mg/kg) and the soil component of the groundwater ingestion pathway for sites with Class II (8 mg/kg) groundwater.

At least five (5) metals (arsenic, barium, cadmium, chromium, lead, and mercury) were detected in all three (3) soil samples. In addition, selenium and mercury were both detected in 378-AA and 378-AC. None of the metal concentrations detected exceeded TACO Tier 1 residential soil remediation objectives.

5.0 CONCLUSIONS

Based upon the analytical testing of soil samples collected during the Phase II ESA, and comparison of the results to TACO Tier 1 soil remediation objective for residential property use and construction workers, MACTEC has drawn the following conclusions regarding the subsurface environmental conditions at the subject property:

- Building 162 LUST Site: Of the three (3) subsurface soil samples collected at Building 162 LUST site, the concentration of one (1) PNA, benzo(a)pyrene, in one (1) sample at 5 to 7 feet below ground surface (bgs) was detected above its TACO Tier 1 residential soil remediation objective for the soil ingestion pathway. Therefore, it appears that this LUST site has affected the subject property.

- Buildings 800 through 806 Abandoned USTs: BTEX and PNA concentrations in subsurface soil samples collected at Buildings 800 through 806 were below TACO Tier 1 soil remediation objective for residential property use and construction workers. Therefore, it appears that the presence of the heating oil USTs at the Bullock Drive Apartments have not affected soils at the subject property. However, MACTEC recommends that the USTs themselves be properly removed.

- Various Buildings ASTs: Of the thirty-five (35) subsurface soil samples collected adjacent to the AST locations at twenty-nine (29) different buildings at Fort Sheridan, four (4) exhibited PNA concentrations above the TACO Tier 1 soil remediation objective for residential property use. Three (3) of these samples were collected at 1 foot bgs and one (1) was collected at 3 feet bgs. Benzo(a)pyrene concentrations in all four (4) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Dibenzo(a,h)anthracene concentrations in three (3) of the four (4) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the ingestion pathway. Benzo(a)anthracene concentrations in two (2) of the four (4) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Benzo(b)fluoranthene concentrations in one (1) of the four (4) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. In addition, one detected naphthalene concentration exceeded the Tier 1 Soil Remediation Industrial/Commercial Objectives for inhalation pathway for construction workers. Therefore, it appears that several of these four (4) AST sites have affected the subject property.

- Army IR Site No. 2, Landfill No. 5: Of the ten (10) subsurface soil samples collected along a 100-foot set-back boundary around Landfill No. 5, three (3) had detected PNA concentrations above TACO Tier 1 soil remediation objective for residential property use. Benzo(a)pyrene concentrations exceeded TACO Tier 1 residential soil remediation objectives for the ingestion pathway in all three (3) samples. Concentrations of benzo(a)anthracene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene also exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in one (1) other sample and dibenzo(a,h)anthracene also exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in the third. Therefore, it appears that this Army IR site has affected the subject property.

- Army IR Site No. 3A, CSA No. 3: Of the three (3) subsurface soil samples collected at CSA No. 3, two (2) had detected PNA and lead concentrations above TACO Tier 1 soil remediation objective for residential property use. Benzo(a)pyrene concentrations exceeded TACO Tier 1 residential soil remediation objectives for the ingestion pathway in both samples. Concentrations

of benzo(a)anthracene and benzo(b)fluoranthene also exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in one sample and dibenzo(a,h)anthracene also exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in the other. Both concentrations of lead in these two (2) samples were above the TACO Tier 1 soil remediation objectives for the soil ingestion pathway and for construction workers. Therefore, it appears that this Army IR site has affected the subject property.

- Army IR Site Nos. 3 and 4, Landfill Nos. 6 and 7: Methane, at up to 9% by volume, was detected in one (1) of the twenty-four (24) soil-gas vents (GV1) installed along a 100-foot set-back boundary around Landfill Nos. 6 and 7. GV1 is near the northwest corner of Landfill No. 7. Low levels of methane, from 0.1% to 0.3% by volume, were detected in twelve (12) other soil-gas vents (GV6, GV7, GV8, GV9, GV11, GV12, GV15, GV16, GV19, GV20, GV23, and GV24). Because of the detection of the elevated levels of methane in GV1, MACTEC installed seven (7) additional soil-gas vents (GV25 through GV31) at approximately 50-foot spacings in the vicinity of GV1 and GV2 in the direction of planned housing units. Methane was not detected in any of these newly installed soil-gas vents. MACTEC understands routine methane testing continued by the Army has also detected elevated subsurface methane concentrations at several methane monitoring wells outside of the extent of the buried waste. Based upon the methane testing data as collected by the Army and MACTEC, MACTEC concludes that methane from Landfill Nos. 6 and 7 may potentially affect the subject property although the areas planned for new housing units appears to currently not be affected. MACTEC understands that the Army may expand the active methane capture system and will then continue routine methane monitoring to determine the extent of potential methane impacts.

- IR Site 5, Excavation Area No. 8: PNA concentrations in subsurface soil samples collected in the Excavation Area No. 8 were below TACO Tier 1 soil remediation objectives for residential property use and for construction workers. Therefore, it appears that the presence of IR Site 5 has not affected the subject property.

- Army IR Site Nos. 7 and 37, VES No. 3 and Building 377 (Former Pesticide Storage) Of the five (5) subsurface soil samples collected at VES#3, one (1) sample collected at 1 foot bgs exhibited PNA concentrations above TACO Tier 1 soil remediation objective for residential property use. In that subsurface soil sample, the benzo(a)pyrene concentration exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Therefore, it appears that these sites have affected the subject property.

- IR Site 11, Vehicle and Equipment Storage Area #7 (VES#7): PNA concentrations in subsurface soil samples collected in the VES#7 area were below TACO Tier 1 soil remediation objective for residential property use and for construction workers. However, a previous sample location at which PNAs were detected above the TACO Tier 1 residential soil remediation objectives was inaccessible to MACTEC. Therefore, the previous results at this location could not be confirmed by MACTEC.

- IR Site 13, Bartlett Ravine: Of the four (4) surficial soil samples collected within Bartlett Ravine, all four (4) samples exhibited PNA concentrations above the TACO Tier 1 soil remediation objective for residential property use. Benzo(a)pyrene concentrations in all four (4) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the ingestion pathway. Benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene concentrations also exceeded the TACO Tier 1 residential soil remediation objectives for the soil

ingestion pathway in one (1) soil sample. Therefore, it appears that this Army IR site has affected the subject property.

- IR Site 15, Van Horne Ravine: Of the four (4) surficial soil samples collected within Van Horne Ravine, three (3) exhibited PNA concentrations above the TACO Tier 1 soil remediation objective for residential property use. Benzo(a)pyrene concentrations in all three (3) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Benzo(a)anthracene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene concentrations in two (2) of the of the four (4) soil samples also exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Indeno(1,2,3-cd)pyrene concentrations in one (1) of the four (4) soil samples exceeded the TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Therefore, it appears that this Army IR site has affected the subject property.

- IR Site 16, Schenck Ravine: Of the four (4) surficial soil samples collected within Schenck Ravine, three (3) exhibited PNA concentrations and two (2) exhibited pesticide concentrations above the TACO Tier 1 soil remediation objective for residential property use. Benzo(a)pyrene concentrations in all three (3) soil samples exceeded its TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Dibenzo(a,h)anthracene concentrations in two (2) of the four (4) soil samples exceeded its TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Benzo(a)anthracene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene concentrations exceeded their respective TACO Tier 1 residential soil remediation objectives for the ingestion pathway in one (1) of the four (4) soil samples. Concentrations of the pesticide 4,4-DDD in two (2) of the four (4) soil samples exceeded its TACO Tier 1 residential soil remediation objective for the soil ingestion pathway. Therefore, it appears that this Army IR site has affected the subject property.

- IR Site 17, Former Ammunition Storage Building 384: Of the two (2) subsurface soil samples collected at the former ammunition storage building, one (1) sample exhibited one (1) PNA concentration above the TACO Tier 1 soil remediation objective for residential property use. In that subsurface soil sample, the benzo(a)pyrene concentration exceeded its TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Therefore, it appears that this Army IR site has affected the subject property.

- IR Sites 18 – 20, Former Ammunition Storage Buildings and Former CAC Firing Range: PNA concentrations in subsurface soil samples collected at IR Sites 18, 19, and 20 were below TACO Tier 1 soil remediation objectives for residential property use and construction workers. Therefore, it appears that the presence of IR Sites 18, 19, and 20 have not affected the subject property.

- IR Site 35, Building 361 Yard Area: Of the four (4) subsurface soil samples collected at Building 361, two (2) samples collected at 2 and 3 feet bgs, respectively, exhibited PNA concentrations above the TACO Tier 1 soil remediation objective for residential property use. In both soil samples, the benzo(a)pyrene concentration exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Therefore, it appears that this Army IR site has affected the subject property.

- IR Site 36, Building 368 Yard Area – Auto Mechanics Shop: Of the four (4) subsurface soil samples and one (1) surficial soil sample collected at Building 368, three (3) exhibited PNA concentrations above TACO Tier 1 soil remediation objective for residential property use.

Benzo(a)pyrene concentrations exceeded TACO Tier 1 residential soil remediation objectives for the ingestion pathway in all three (3) samples while benzo(a)anthracene and benzo(b)fluoranthene concentrations also exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in the surficial soil sample. Therefore, it appears that this Army IR site has affected the subject property.

- Wells Ravine Tributary North: Of the ten (10) subsurface soil samples collected in the Wells Ravine Tributary North site, one (1) sample collected from 6.5 feet bgs had detected two (2) VOC concentrations above TACO Tier 1 soil remediation objectives for residential property use. Trichloroethene exceeded its TACO Tier 1 residential soil remediation objectives for the soil inhalation pathway and soil component to groundwater ingestion pathway for sites with Class II groundwater in this sample. Cis-1,2-dichloroethene exceeded its TACO Tier 1 residential soil remediation objectives for the soil component to groundwater ingestion pathway for sites with Class II groundwater in the same sample. In addition, two (2) samples, collected from 1.5 and 6.5 feet bgs had detected PNA concentrations above its TACO Tier 1 soil remediation objective for residential property use. Concentrations of the PNA, benzo(a)pyrene, exceeded TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in both samples. The concentrations of the PNAs, benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene, exceeded their respective TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in one (1) soil sample. The concentration of benzo(a)anthracene in this sample also exceeded its TACO Tier 1 residential soil remediation objectives for the soil component of groundwater ingestion pathway for sites with Class II groundwater. In addition, the lead concentration in one (1) sample was above its TACO Tier 1 soil remediation objectives for the soil ingestion pathway and for construction workers. Therefore, it appears that this site has affected the subject property.

- Surficial Soil With Lead, Buildings 420 - 428, 430, 431, 440, 441, 445, 447, 495, 642, 652, 657, 660, 661, 663 and 664: Of the forty-nine (49) surficial soil samples collected adjacent to twenty-three (23) buildings at Fort Sheridan, lead concentrations in forty-six (46) were detected above the TACO Tier 1 soil remediation objectives for residential property use and for construction workers. Seven (7) samples with elevated total lead concentrations were also tested for toxicity characteristic leaching procedure (TCLP) lead. TCLP lead results in six (6) of the seven (7) were above the TACO Tier 1 soil to groundwater component remediation objective for sites with Class I groundwater. Four (4) of these TCLP lead values were above the USEPA toxicity characteristic criteria level (5 mg/L) indicating that this soil could be classified as hazardous waste. Based upon the age of these buildings, it is reasonable to assume that the source of these elevated lead concentrations is lead-based paint used on the exterior surfaces of these structures. Therefore, MACTEC concludes that lead-based paint used on these buildings has affected the subject property.

- Building 368 – Vehicle Lifts: BTEX, PNA, and barium concentrations in the three (3) subsurface soil samples collected at the Building 368 vehicle lift area were below TACO Tier 1 soil remediation objective for residential property use and for construction workers. Therefore, it appears that the presence of these lifts has not affected the subject property.

- Building 368 – Vehicle Wash Bay: VOC, SVOC, PNA, and metals concentrations in the three (3) subsurface soil samples collected at the Building 368 vehicle wash bay area were below TACO Tier 1 soil remediation objective for residential property use and for construction workers. Therefore, it appears that the presence of these lifts has not affected the subject property.

- Building 378 – Hydraulic Lift Area: Of the three (3) subsurface soil samples collected at the Building 378 hydraulic lift area, all three (3) had detected PNA concentrations above TACO Tier 1 soil remediation objective for residential property use. Two (2) of the samples were collected from 1 foot bgs, whereas the third was collected from 3 feet bgs. Benzo(a)pyrene concentrations in all three (3) soil samples exceeded its TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway. Benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene concentrations also exceeded their TACO Tier 1 residential soil remediation objectives for the soil ingestion pathway in two (2) of the samples. The concentrations of benzo(a)anthracene in these two (2) of the samples also exceeded its TACO Tier 1 residential soil remediation objectives for the soil to groundwater ingestion component for sites with Class II groundwater pathway. Therefore, it appears that this site has affected the subject property.

MACTEC's recommendations based upon this information are presented in the following section.

6.0 RECOMMENDATIONS

Based upon the conclusions presented in the Summary, MACTEC recommends the following actions for the subject property:

- Building 162 LUST Site: MACTEC recommends remediation to remove the PNA-contaminated soil at this site. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected area. Since the location of this contaminated soil is deeper than 3 feet and is in an area where no site grading or construction will take place, an engineered barrier consisting of 3 feet of clean soil may already exist over this area. MACTEC recommends sampling of the soil above 3 feet bgs at this location to confirm that the TACO engineered barrier requirements are met.. Current plans are for MACTEC to perform this sampling during the site development activities.

- Buildings 800 through 806 Abandoned USTs: MACTEC does not recommend any further investigation action at this location at this time. However, during building demolition in this area, MACTEC recommends removal of the tanks by a qualified tank removal contractor and in-field assessment of the soils in the tank areas upon removal. If visible evidence of soil impact is observed during tank removal, additional soil sampling and analysis may be warranted. Current plans are for this portion of the subject property to be sold and tank removal, if required, will be the responsibility of the new property owner.

- Various Buildings ASTs: MACTEC recommends removal of all of the ASTs by a qualified tank removal contractor. If any product remains in the tanks, it should also be removed and disposed of offsite prior to movement of the tanks. Further, MACTEC recommends remediation to remove the PNA-contaminated soils at these locations. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since three (3) of the four (4) sample locations that exhibited PNA concentrations above the TACO Tier 1 soil remediation objectives are beyond the area where site grading or construction will take place, current plans are for an engineered barrier consisting of 3 feet of clean soil to be placed and maintained over these areas. At the fourth sample location (collected from 3 feet bgs) where the PNA concentrations were above the TACO Tier 1 soil remediation objectives, site grading is planned and will likely result in the removal of soil from this area. Consequently, current plans are for remediation to remove the PNA-contaminated soils at this location by the demolition contractor as part of the site development activities. A construction worker caution will also be implemented for construction workers who may be working at the area where naphthalene exceeded the construction worker objective and be potentially exposed to the impacted soil.

- Army IR Site No. 2, Landfill No. 5: MACTEC recommends remediation to remove the PNA-contaminated soils at this site. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since the locations of the contaminated soil are beyond the area where site grading or construction will take place, current plans are for an engineered barrier consisting of 3 feet of clean soil to be placed by the demolition contractor as part of the site development activities and maintained over this area.

- Army IR Site No. 3A, CSA No. 3: MACTEC recommends remediation to remove the PNA- and lead-contaminated soils at this site. In lieu of soil remediation, TACO regulations allow for the

installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since these locations are in an area where no site grading or construction will take place, current plans are for risk assessment to be performed by MACTEC to determine the effect of leaving this soil in place. Approval by the IEPA will be sought for the risk assessment if the results support leaving the soil in place.

- Army IR Site Nos. 3 and 4, Landfill Nos. 6 and 7: MACTEC recommends that the Navy and Forest City furnish information to the Army about the MACTEC methane monitoring results and request design information for the methane capture system expansion and routine monitoring results from the Army. Further, MACTEC recommends that quarterly methane monitoring of several soil gas vents (GV1, GV2, and GV27) adjacent to the housing units that are closest to Landfill No. 7 be implemented.

- IR Site 5, Excavation Area No. 8: MACTEC does not recommend any further action at this location.

- Army IR Site Nos. 7 and 37, VES No. 3 and Building 377 (Former Pesticide Storage) MACTEC recommends remediation to remove the PNA-contaminated soil at this site. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected area. Current plans are for the the demolition contractor, as part of the site development activities, to place up to 2 feet of clean soil over the location of the contaminated soil to create an engineered barrier.

- IR Site 11, Vehicle and Equipment Storage Area #7 (VES#7): MACTEC recommends remediation to remove the PNA-contaminated soil at the previous sample location. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected area. Current plans are for the placement of up to 5 feet of clean soil over the location of the contaminated soil by the demolition contractor as part of the site development activities. Therefore, the placement of this clean soil willcreate the required engineered barrier (3 feet of clean soil).

- IR Site 13, Bartlett Ravine: MACTEC recommends remediation to remove the PNA-contaminated soil at this site. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since these locations are in an area where no site grading or construction will take place and placement of an engineered barrier may be impractical, current plans are for risk assessment to be performed by MACTEC to determine the effect of leaving this contaminated soil in place. Approval by the IEPA will be sought for the risk assessment if the results support leaving the soil in place.

- IR Site 15, Van Horne Ravine: MACTEC recommends remediation to remove the PNA-contaminated soil at this site. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since these locations are in an area where no site grading or construction will take place and placement of an engineered barrier may be impractical, current plans are for risk assessment to be performed by MACTEC to determine the effect of leaving this contaminated soil in place. Approval by the IEPA will be sought for the risk assessment if the results support leaving the soil in place.

- IR Site 16, Schenck Ravine: MACTEC recommends remediation to remove the PNA- and pesticide-contaminated soil at this site. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since these locations are in an area where no site grading or construction will take place and placement of an engineered barrier may be impractical, current plans are for risk assessment to be performed by MACTEC to determine the effect of leaving this contaminated soil in place. Approval by the IEPA will be sought for the risk assessment if the results support leaving the soil in place.

- IR Site 17, Former Ammunition Storage Building 384: MACTEC recommends remediation to remove the PNA-contaminated soil at this site. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected area. Since the location of the contaminated soil is beyond the area where site grading or construction will take place, current plans are for an engineered barrier consisting of 3 feet of clean soil to be placed by the demolition contractor as part of the site development activities and maintained over this area.

- IR Sites 18 – 20, Former Ammunition Storage Buildings and Former CAC Firing Range: MACTEC does not recommend any further action at this location.

- IR Site 35, Building 361 Yard Area: MACTEC recommends remediation to remove the PNA-contaminated soil at this site. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since the location of the contaminated soil is beyond the area where site grading or construction will take place, current plans are for an engineered barrier consisting of 3 feet of clean soil to be placed by the demolition contractor as part of the site development activities and maintained over this area.

- IR Site 36, Building 368 Yard Area – Auto Mechanics Shop: MACTEC recommends remediation to remove the PNA-contaminated soil at this site. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. Since the locations of the contaminated soil are beyond the area where site grading or construction will take place, current plans are for an engineered barrier consisting of 3 feet of clean soil to be placed by the demolition contractor as part of the site development activities and maintained over these areas.

- Wells Ravine Tributary North: MACTEC recommends remediation to remove the VOC-, PNA- and lead-contaminated soils at this site. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (10 feet of clean soil, asphalt or concrete) over the affected areas. Current plans are for site grading in this area to place up to 6 feet of clean soil over both locations by the demolition contractor as part of the site development activities, which would create the required engineered barrier (10 feet of clean soil for inhalation and 3 feet of clean soil for ingestion). In addition, current plans are for an asphalt roadway to be constructed over the area where the sample collected at 6.5 feet bgs is located by the demolition contractor as part of the site development activities, which would create the required engineered barrier (asphalt pavement).

- Surficial Soil With Lead, Buildings 420 - 428, 430, 431, 440, 441, 445, 447, 495, 642, 652, 657, 660, 661, 663 and 664: MACTEC recommends remediation to remove the lead-contaminated soils at these locations. Based upon the TCLP lead results, this soil may have to be handled and

disposed of as hazardous waste. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil or asphalt or concrete cover) over the affected areas and require construction worker precautions should construction workers be potentially exposed to the impacted soil. Further, unless these buildings will be demolished, MACTEC recommends abatement or encapsulation of any remaining lead-based paint on the structures. At the locations of lead-contaminated soil, site grading is planned and will likely result in the removal of soil from this area. Consequently, current plans are for the remediation to remove the lead-contaminated soils at these locations by the demolition contractor as part of the site development activities.

- Building 368 – Vehicle Lift Area: MACTEC recommends removal of the lifts by a qualified removal contractor and in-field assessment of the soils in the lift area upon removal. If visible evidence of soil impacts are observed during lift removal, additional soil sampling and analysis may be warranted. During lift removal, if any hydraulic oil remains in the lifts, it should also be removed and disposed of offsite. Current plans are for the removal of the hydraulic lifts by the demolition contractor as part of the site development activities.

- Building 368 – Vehicle Wash Bay: MACTEC does not recommend any further action at this location.

- Building 378 – Hydraulic Lift Area: MACTEC recommends remediation to remove the PNA-contaminated soil at these locations. In lieu of soil remediation, TACO regulations allow for the installation and maintenance of an engineered barrier (3 feet of clean soil, asphalt or concrete) over the affected areas. In addition, MACTEC recommends removal of the lifts by a qualified removal contractor and in-field assessment of the soils in the lift area upon removal. If visible evidence of soil impact is observed during lift removal, additional soil sampling and analysis may be warranted. During lift removal, if any hydraulic oil remains in the lifts, it should also be removed and disposed of offsite. Since the locations of the contaminated soil are beyond the area where site grading or construction will take place, current plans are for an engineered barrier consisting of 3 feet of clean soil to be placed by the demolition contractor as part of the site development activities and maintained over the shallow soil sample locations. In addition, the hydraulic lifts will also be removed removed by the demolition contractor as part of the site development activities.

7.0 REFERENCES

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- *Environmental Assessment,* prepared for Department of the Navy, Naval Facilities, Engineering Field Division South, dated December 2004.
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- *Final Feasibility Study DOD Operable Unit, Fort Sheridan, IL*, dated May 2002, prepared by Science Applications International Corporation
- *Proposed Plan Coal Storage Area 3 and Landfill 5, Fort Sheridan, Illinois*, dated February 18, 2003 (Final) prepared by Kemron.
- *Remedial Investigation/Baseline Risk Assessment Addendum, DOD Operable Unit, Fort Sheridan, IL*, dated April 2001 (RI/BRA Addendum), prepared by Science Applications International Corporation.
- *Remedial Investigation/Baseline Risk Assessment, DOD Operable Unit, Fort Sheridan, IL*, dated July 1999 (RI/BRA), prepared by Science Applications International Corporation.
- *Comprehensive Environmental Survey, Fort Sheridan – 31 WWII Army Buildings 419, 420, 421,422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 440, 441, 443, 445, 447, 449, 454, 493, 494, 495, 642, T-652, T-657, T-660, T-661, T-663, T-664, T-666, Fort Sheridan, Illinois,* dated October 5, 2004, prepared by Versar, Inc.

Tables

TABLE 1
SUMMARY OF PHASE II SCOPE OF WORK

Fort Sheridan
Highland Park, Illinois

SITE NAME OR IDENTIFIER	AREA OF CONCERN OR GENERAL LOCATION	KNOWN OR POTENTIAL SOURCE OF CONTAMINATION OR ENVIRONMENTAL CONCERN	KNOWN OR POTENTIAL TYPE OF CONTAMINATION	MEDIA KNOWN OR POTENTIALLY IMPACTED	IMPETUS FOR PHASE II ACTIVITIES	PHASE II SCOPE OF WORK	
						Number/Depth of Borings/Samples	Sample Analysis
PHASE II SCOPE OF WORK BASED UPON DOCUMENT REVIEW							
UST SITES							
NA	Bldg 162	UST	Assumed Heating Oil	Soil	Verification of Previous Sampling/Closure Not Available.	3 GP borings to 12 feet deep near UST area. 1 sample per boring for analysis.	BTEX & PNAs.
NA	Bldgs 800 to 806	(4) 2,000-gallon USTs were Reportedly Abandoned In-Place at Each Building.	Heating Oil	Soil	Verification of Removal of Residual Product and Proper Cleaning of Interior of Tanks Not Available. PNAs in Subsurface Soils Were Above TACO Tier 1 Residential Objectives at Building 801.	1 boring to 8' bgs adjacent to each UST location. 1 sample per boring for analysis.	BTEX & PNAs.
AST SITES							
NA	Buildings 336, 364, 365, 368, 369, 375, 377, 378, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 440, 493, 642, 652, 657, 660, 663, 664, 666 and unknown building near 336.	Leakage or Overfilling of ASTs. Most of the ASTs were in a concrete secondary containment structure, however a pipe with a valve that was open protruded from the side of the containment structures.	Assumed Heating Oil	Soil	Verification of Previous Sampling Not Available.	1 boring to 4 Feet bgs adjacent to each AST. A total of 35 AST borings were performed. Borings were typically located immediately adjacent to a secondary containment drain open to the ground surface. 1 sample per boring for analysis.	BTEX & PNAs.
ARMY IR SITES OR SITES DIRECTLY ASSOCIATED WITH IR SITES							
Army IR Site 2	Landfill #5	Landfill	Landfill Waste Migration.	Soil, GW & waste	PNAs and Lead in Subsurface Soils Were Above TACO Tier 1 Residential Objectives. Verification of Closure Not Available.	6 GP borings to 12 feet deep. 1 sample from 2 borings and 2 samples from 4 borings for analysis.	PNAs on all samples. RCRA Metals on 6 samples. Due to Elevated PID Readings, 4 Samples Also Analyzed for VOCs.
Army IR Site 3A	Coal Storage Area #3 - North Side of Bartlett Ravine	Coal Storage.	Coal & Debris.	Soil	PNAs in Surface and Subsurface Soils Were Above TACO Tier 1 Residential Objectives. Metals were Detected. Verification of Closure Not Available.	3 Hand Auger Borings to 4 Feet bgs. 1 sample per boring for analysis.	PNAs & RCRA Metals
Army IR Site 3	Landfill #6	Buried Waste.	Methane	Soil Gas	Methane Testing Data Not Available.	30 GP borings to 20 feet deep. Installed 1" gas probes w/15' screens in each hole. 1 GP boring to 15 feet and 1" gas probe w/10' screen installed	In-Situ Methane.
Army IR Site 4	Landfill #7	Buried Waste.	Methane	Soil Gas	Methane Testing Data Not Available.		
Army IR Site 5	Excavation Area # 8	Possibly Fill Used for Bluff Stabilization Reported.	Buried Debris	Soil	PNAs in Surface and Subsurface Soils Were Above TACO Tier 1 Residential Objectives. Verification of Closure Not Available.	3 Hand Auger Borings to 8 Feet bgs. 1 sample per boring for analysis.	PNAs
Army IR Site 7	Vehicle & Equipment Storage Area #3	Leaks/Spills of Vehicle Transmission and Crankcases.	Vehicle Oils. PNA Contamination Previously Detected/Reported.	Soil	PNAs in Surface and Subsurface Soils to 9 feet bgs Were Above TACO Tier 1 Residential Objectives. Verification of Closure Not Available.	4 borings to 8 feet bgs and 1 boring to 10 feet bgs. 1 sample per boring for analysis.	PNAs on All. Due to Elevated PID Readings, 1 Sample Also Analyzed for BTEX.
Army IR Site 11	Vehicle & Equipment Storage Area #7	Leaks/Spills of Vehicle Transmission and Crankcases.	Vehicle Oils. PNA Contamination Previously	Soil	PNAs in Surface and Subsurface Soils to 4 feet bgs Were Above TACO Tier 1 Residential Objectives. Verification of	2 Borings to 8 feet bgs and 1 Boring to 12 feet bgs. 1 sample per boring for analysis.	PNAs.
Army IR Site 13	Bartlett Ravine	Storm Water/Sediment Transport from Other Contaminated Areas	Surface Water Runoff. PNA & Pesticide Contamination Previously Detected/Reported.	Surfacical Soil & Sediment	PNAs & Pests in Surficial Soil/Sediment Exceeded TACO Tier 1 Residential Objectives. Verification of Closure Not Available.	4 Surfacial Soils/Sediment Samples.	PNAs and Pests.
Army IR Site 15	Van Horne Ravine	Storm Water/Sediment Transport from Other Contaminated Areas	Surface Water Runoff. PNA & Pesticide Contamination Previously Detected/Reported.	Surfacical Soil & Sediment	PNAs in Surficial Soil/Sediment Exceeded TACO Tier 1 Residential Objectives. Pests Were Detected. Verification of Closure Not Available.	4 Surfacial Soils/Sediment Samples.	PNAs and Pests.
Army IR Site 16	Shenck Ravine	Storm Water/Sediment Transport from Other Contaminated Areas	Surface Water Runoff. PNA & Pesticide Contamination Previously Detected/Reported.	Surfacical Soil & Sediment	PNAs in Surficial Soil/Sediment Exceeded TACO Tier 1 Residential Objectives. Pests Were Detected. Verification of Closure Not Available.	4 Surfacial Soils/Sediment Samples.	PNAs and Pests.
Army IR Site 17	Bldg 384 - Former Ammunition Storage Buildings	Usage, Storage & Transport of bulk Explosives and Ammunition.	PNA Contamination Previously Detected/Reported.	Soil	PNAs in Surficial Soil Exceeded TACO Tier 1 Residential Objectives. Verification of Closure Not Available.	2 Borings to 4 feet bgs. 1 sample per boring for analysis.	PNAs.
Army IR Site 18	Bldg 389 - Former Ammunition Storage Buildings		PNA Contamination Previously Detected/Reported.	Soil	PNAs in Surficial Soil Exceeded TACO Tier 1 Residential Objectives. Verification of Closure Not Available.	1 Boring to 4 feet bgs. 1 sample per boring for analysis.	PNAs.
Army IR Site 19	Bldg 390 - Former Ammunition Storage Buildings		PNA Contamination Previously Detected/Reported.	Soil	PNAs in Surficial Soil Exceeded TACO Tier 1 Residential Objectives. Verification of Closure Not Available.	1 Boring to 4 feet bgs. 1 sample per boring for analysis.	PNAs.
Army IR Site 20	Former CAC Firing Range (Bldg 388)		PNA Contamination Previously Detected/Reported.	Soil	PNAs in Surficial Soil Exceeded TACO Tier 1 Residential Objectives. Verification of Closure Not Available.	1 Boring to 4 feet bgs. 1 sample per boring for analysis.	PNAs.
Army IR Site 35	Bldg 361 Yard Area - Photo Shop	Sewer system leaks. Photo Processing	PNA Contamination Previously Detected/Reported.	Soil	PNAs in Subsurface Soils to 5 feet bgs Were Above TACO Tier 1 Residential Objectives. Verification of Closure Not Available.	4 Borings to 8 feet bgs. 1 sample per boring for analysis.	PNAs on All. Due to Elevated PID Readings, 1 Sample Also Analyzed for BTEX.
Army IR Site 36	Bldg 368 Yard Area - Auto Mechanics Shop	Vehicle repair.	Vehicle Oils. PNA Contamination Previously Detected/Reported.	Soil	PNAs in Subsurface Soils to 10 feet bgs Were Above TACO Tier 1 Residential Objectives. Lead in Surficial Soils Were Above TACO Tier 1 Residential Objective. Verification of Closure Not Available.	3 GP borings to 8 feet deep and 1 GP boring to 10'. 1 sample per boring for analysis. 1 Sediment Sample from Swale.	PNAs on all. PNAs and lead on sediment sample from swale.
Army IR Site 37	Bldg 377 Yard Area - Former Pesticide Storage	Pesticide Storage	PNA Contamination Previously Detected/Reported.	Soil	PNAs in Subsurface Soils to 9 feet bgs Were Above TACO Tier 1 Residential Objectives.	Phase II borings covered in VES #3 scope.	Phase II borings covered in VES #3 scope.
NA	Wells Ravine Tributary North Associated w/ Landfill #7	Construction Debris & stained soil, furnace ash, cinder-like mtl., construction debris noted.	Landfill Waste Migration.	Soil	PNAs and Lead in Subsurface Soils Were Above TACO Tier 1 Residential Objectives. Verification of Closure Not Available.	8 Borings to 12 feet bgs. 1 sample from 6 borings and 2 samples from 2 borings for analysis.	PNAs and lead on All. Due to Elevated PID Readings, 1 Sample Also Analyzed for BTEX.
LEAD-BASED PAINT IN SOIL SITES							
NA	Various Bldgs in 400s and 600s**	Exterior Lead-based Paint	Lead	Soil	Lead in Surface Soils Were Above TACO Tier 1 Residential Objectives. Verification of Closure Not Available.	1 Surficial Soil sample at each location. A total of 49 samples for analysis.	Total lead on all samples. TCLP lead on 7 samples.
PHASE II SCOPE OF WORK BASED UPON PHASE I ENVIRONMENTAL SITE ASSESSMENT							
NA	Bldg 368 Vehicle Lift Area	Vehicle Lifts Inside Building	Hydraulic oil	Soil	No Evidence of Previous Sampling or Closure was Available.	3 Borings to 8 feet deep. 1 sample per boring for analysis.	BTEX, PNAs and Barium.
NA	Bldg 368 Vehicle Wash Area	Possible Grease Trap/Drain/Oil Water Separator Inside Building	Used Oil	Soil	No Evidence of Previous Sapling or Closure was Available.	3 Borings to 8 feet deep. 1 sample per boring for analysis.	VOCs, SVOCs, PNAs, and RCRA metals.
NA	Bldg. 378	Former hydraulic lift(s)	Hydraulic oil	Soil	No Evidence of Previous Assessment or Closure was Available.	3 Borings to 8 feet deep. 1 sample per boring for analysis.	VOCs, SVOCs, PNAs, and RCRA metals.

NOTES:

UST Underground Storage Tank
LUST Leaking Underground Storage Tank
AST Aboveground Storage Tank
BTEX Benzene, Toluene, Ethylbenzene, and Xylenes
MTBE Methyl Tertiary-Butyl Ether
PNAs Polynuclear aromatic hydrocarbons
RCRA Resource Conservation and Recovery Act
TCLP Toxicity Characteristic Leaching Procedure

SVOCs Semi-Volatile Organic Compounds
VOCs Volatile Organic Compounds
FT. FEET
IR Installation Restoration
TACO Tiered Approach to Corrective Action Objectives
NA Not Applicable.
PID Photoionization Detector

TABLE 2

SUMMARY OF SOIL ANALYTICAL DATA - BUILDING 162

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	162-A 0.5 - 2.0 8/30/05	162-B 5.0 - 7.0 8/30/05	162-C 6.0 - 8.0 8/30/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
VOLATILES								
Benzene	mg/kg	ND	ND	ND	0.8 (inh)	0.17	2.2 (inh)	NE
Toluene	mg/kg	ND	ND	ND	650 (inh)	29	42 (inh)	NE
Ethylbenzene	mg/kg	ND	ND	ND	400 (inh)	19	58 (inh)	NE
Xylenes, Total	mg/kg	ND	ND	ND	320 (inh)	150	320 (inh)	NE
POLYNUCLEAR AROMATIC HYDROCARBONS								
Acenaphthene	mg/kg	ND	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	**0.05**	**0.045**	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	ND	**0.15**	**0.046**	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	**0.16**	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	ND	**0.048**	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	**0.13**	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	ND	**0.1**	**0.064**	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	**0.043**	**0.31**	**0.1**	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	ND	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	ND	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	ND	**0.23**	**0.12**	NE	NE	NE	NE
Pyrene	mg/kg	**0.033**	**0.25**	**0.1**	2,300 (ing)	21,000	61,000 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: DEN
Checked by: EJW

TABLE 3

SUMMARY OF SOIL ANALYTICAL DATA - BULLOCK DRIVE APARTMENTS

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	800-A 4 - 8 7/12/05	800-B 8 - 12 7/12/05	800-C 4 - 8 7/12/05	800-D 8 - 12 7/12/05	801-A 4 - 8 7/12/05	801-B 8 - 12 7/12/05	801-C 4 - 8 7/12/05	801-D 8 - 12 7/12/05	802-A 8 - 12 7/12/05	802-B 7 - 8 7/13/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
VOLATILES															
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8 (inh)	0.17	2.2 (inh)	NE
Toluene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0046**	650 (inh)	29	42 (inh)	NE
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	400 (inh)	19	58 (inh)	NE
Xylenes, Total	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	320 (inh)	150	320 (inh)	NE
POLYNUCLEAR AROMATIC HYDROCARBONS															
Acenaphthene	mg/kg	ND	ND	**0.067**	ND	ND	ND	ND	ND	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	ND	**0.1**	ND	ND	ND	ND	ND	ND	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	ND	**0.11**	ND	ND	ND	ND	ND	ND	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	ND	ND	**0.1**	ND	ND	ND	ND	ND	ND	ND	NE	NE	NE	NE
Pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,300 (ing)	21,000	61,000 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection

Prepared by: AEH
Checked by: MSR

TABLE 3

SUMMARY OF SOIL ANALYTICAL DATA - BULLOCK DRIVE APARTMENTS

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	802-C 8 - 12' 7/13/05	802-D 4 - 8' 7/13/05	803-A 4 - 8' 7/13/05	803-B 8 - 12' 7/13/05	803-C 6 - 8' 7/13/05	803-D 8 - 12' 7/13/05	804-A 7 - 8' 7/13/05	804-B 8 - 12' 7/13/05	804-C 4 - 8' 7/13/05	804-D 4 - 8' 7/13/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier 1 Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
VOLATILES															
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8 (inh)	0.17	2.2 (inh)	NE
Toluene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	650 (inh)	29	42 (inh)	NE
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	400 (inh)	19	58 (inh)	NE
Xylenes, Total	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	320 (inh)	150	320 (inh)	NE
POLYNUCLEAR AROMATIC HYDROCARBONS															
Acenaphthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	**0.037**	ND	ND	ND	ND	ND	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	**0.039**	ND	ND	ND	ND	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	**0.041**	ND	ND	ND	ND	ND	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	**0.03**	ND	ND	ND	ND	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	ND	ND	ND	ND	**0.042**	ND	ND	ND	ND	ND	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	ND	ND	ND	ND	**0.073**	**0.042**	ND	ND	ND	ND	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	ND	ND	ND	ND	ND	**0.033**	ND	ND	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	ND	ND	ND	ND	**0.032**	ND	**0.051**	ND	ND	ND	NE	NE	NE	NE
Pyrene	mg/kg	ND	ND	ND	ND	**0.065**	**0.038**	ND	ND	ND	ND	2,300 (ing)	21,000	61,000 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection

Prepared by: AEH
Checked by: MSR

TABLE 3

SUMMARY OF SOIL ANALYTICAL DATA - BULLOCK DRIVE APARTMENTS

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	805-A 4 - 8' 7/13/05	805-B 8 - 12' 7/13/05	805-C 4 - 8' 7/13/05	805-D 8 - 12' 7/13/05	806-A 7 - 8' 7/13/05	806-B 4 - 8' 7/13/05	806-C 6 - 8' 7/13/05	806-D 6 - 8' 7/13/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
VOLATILES													
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.8 (inh)	0.17	2.2 (inh)	NE
Toluene	mg/kg	ND	ND	ND	ND	**0.0051**	ND	ND	ND	650 (inh)	29	42 (inh)	NE
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	400 (inh)	19	58 (inh)	NE
Xylenes, Total	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	320 (inh)	150	320 (inh)	NE
POLYNUCLEAR AROMATIC HYDROCARBONS													
Acenaphthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	NE	NE
Pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	2,300 (ing)	21,000	61,000 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix B Table A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix B Table A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix B Table B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Background Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection

Prepared by: AEH
Checked by: MSR

TABLE 4

SUMMARY OF SOIL ANALYTICAL DATA - AST SITES

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	336-A 1 - 2 7/14/05	336-B 1 - 2 7/14/05	336-C 1 - 2 7/14/05	364-A 2 - 4 7/15/05	365-A 1 - 2 7/15/05	368-H 1 - 4 7/14/05	369-A 1 - 1.2 7/14/05	375-A 1 - 2 7/15/05	375-B 1 - 2 7/15/05	375-C 1 - 2 7/15/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier 1 Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
VOLATILES															
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8 (inh)	0.17	2.2 (inh)	NE
Toluene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	650 (inh)	29	42 (inh)	NE
Ethylbenzene	mg/kg	ND	ND	ND	**0.024**	ND	ND	ND	ND	ND	ND	400 (inh)	19	58 (inh)	NE
Xylenes, Total	mg/kg	ND	ND	ND	**0.034**	ND	ND	ND	ND	ND	ND	320 (inh)	150	320 (inh)	NE
POLYNUCLEAR AROMATIC HYDROCARBONS															
Acenaphthene	mg/kg	ND	ND	**0.053**	**0.23**	ND	ND	ND	ND	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	**0.35**	**0.039**	ND	ND	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	ND	**0.21**	**0.22**	ND	ND	ND	**0.088**	ND	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	ND	**0.066**	**1.2**	ND	ND	ND	ND	**0.62**	ND	ND	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	**0.061**	**1.1**	ND	ND	ND	**0.046**	**0.63**	ND	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	**0.079**	**1.5**	ND	ND	ND	**0.044**	**0.63**	ND	ND	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	**0.039**	**0.57**	ND	ND	ND	**0.056**	**0.54**	ND	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	**0.06**	**0.76**	ND	ND	ND	**0.036**	**0.61**	ND	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	ND	**0.083**	**1.3**	ND	ND	ND	**0.035**	**0.71**	ND	ND	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	**0.16**	ND	ND	ND	ND	**0.2**	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	ND	**0.12**	**2.2**	**0.034**	ND	ND	**0.054**	**1.2**	ND	ND	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	ND	**0.068**	**0.76**	ND	ND	ND	**0.042**	ND	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	**0.041**	**0.55**	ND	ND	ND	**0.045**	**0.45**	ND	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	ND	**0.041**	**0.42**	ND	ND	ND	ND	ND	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	ND	**0.045**	**0.91**	**1.3**	ND	ND	ND	**0.34**	ND	ND	NE	NE	NE	NE
Pyrene	mg/kg	ND	**0.1**	**1.8**	**0.31**	ND	ND	**0.045**	**0.99**	ND	ND	2,300 (ing)	21,000	61,000 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: AEH
Checked by: MSR

TABLE 4

SUMMARY OF SOIL ANALYTICAL DATA - AST SITES

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	377-A 1 - 2' 7/15/05	378-A 1 - 2 7/15/05	378-B 1 - 2 7/15/05	378-C 1 - 3 7/15/05	420-A 1 - 2 7/15/05	421-A 1 - 2 7/15/05	422A 3 - 4 7/18/05	423A 0 - 1 7/18/05	424-A 1 - 2 7/15/05	425-A 1 - 2 7/15/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
VOLATILES															
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8 (inh)	0.17	2.2 (inh)	NE
Toluene	mg/kg	ND	ND	ND	ND	ND	ND	**0.0044**	ND	ND	ND	650 (inh)	29	42 (inh)	NE
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.12**	400 (inh)	19	58 (inh)	NE
Xylenes, Total	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.1**	320 (inh)	150	320 (inh)	NE
POLYNUCLEAR AROMATIC HYDROCARBONS															
Acenaphthene	mg/kg	ND	**0.099**	ND	**0.14**	ND	ND	ND	ND	ND	**0.18**	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	**0.069**	ND	**0.056**	ND	ND	ND	ND	ND	**0.48**	NE	NE	NE	NE
Anthracene	mg/kg	ND	**0.032**	ND	**0.39**	ND	ND	**0.054**	ND	ND	**0.2**	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	ND	ND	ND	**0.97**	ND	ND	**0.046**	ND	ND	ND	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	ND	ND	**0.95**	ND	ND	ND	ND	ND	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	**0.79**	ND	ND	ND	ND	ND	ND	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	**0.72**	ND	ND	ND	ND	ND	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	**0.78**	ND	ND	ND	ND	ND	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	ND	ND	ND	**0.95**	ND	ND	**0.048**	ND	ND	ND	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	**0.092**	ND	ND	ND	ND	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	ND	ND	ND	**2.1**	ND	ND	**0.062**	ND	ND	ND	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	**0.13**	ND	**0.21**	ND	ND	ND	ND	ND	**1.3**	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	**0.61**	ND	ND	ND	ND	ND	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	**0.082**	ND	**0.061**	ND	ND	**0.36**	ND	ND	**3.4**	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	ND	**0.18**	ND	**1.4**	ND	ND	**0.25**	ND	ND	**0.53**	NE	NE	NE	NE
Pyrene	mg/kg	ND	ND	ND	**1.7**	ND	ND	**0.082**	ND	ND	**0.045**	2,300 (ing)	21,000	61,000 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Background Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: AEH
Checked by: MSR

TABLE 4

SUMMARY OF SOIL ANALYTICAL DATA - AST SITES

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	426-A 1 - 2 7/18/05	427-A 3 - 4 7/18/05	428-A 3 - 4 7/15/05	429-A 1 - 2 7/15/05	430-A 3 - 4 7/18/05	431-A 1 - 2 7/18/05	440-A 1 - 2 7/15/05	493-A 3 - 4 7/15/05	642-A 1 - 2 7/18/05	652-A 2 - 3 7/13/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier 1 Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
VOLATILES															
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8 (inh)	0.17	2.2 (inh)	NE
Toluene	mg/kg	ND	**0.0084**	ND	ND	ND	ND	ND	ND	ND	ND	650 (inh)	29	42 (inh)	NE
Ethylbenzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	400 (inh)	19	58 (inh)	NE
Xylenes, Total	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	320 (inh)	150	320 (inh)	NE
POLYNUCLEAR AROMATIC HYDROCARBONS															
Acenaphthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.095**	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.057**	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.38**	ND	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.42**	**0.037**	ND	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.33**	ND	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.46**	**0.037**	ND	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.1**	ND	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.14**	ND	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.35**	**0.045**	ND	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.038**	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.92**	**0.082**	ND	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.35**	ND	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.11**	ND	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.15**	ND	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**1.1**	**0.06**	ND	NE	NE	NE	NE
Pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.7**	**0.068**	ND	2,300 (ing)	21,000	61,000 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: AEH
Checked by: MSR

TABLE 4

SUMMARY OF SOIL ANALYTICAL DATA - AST SITES

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	657-A 1 - 2 7/13/05	660-A 3 - 4 7/18/05	663-A 3 - 4 7/18/05	664-A 3 - 4 7/18/05	666-A 3 - 4 7/13/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
VOLATILES										
Benzene	mg/kg	ND	ND	ND	ND	ND	0.8 (inh)	0.17	2.2 (inh)	NE
Toluene	mg/kg	ND	ND	**0.0073**	ND	ND	650 (inh)	29	42 (inh)	NE
Ethylbenzene	mg/kg	ND	ND	ND	ND	**0.0052**	400 (inh)	19	58 (inh)	NE
Xylenes, Total	mg/kg	ND	ND	ND	ND	**0.069**	320 (inh)	150	320 (inh)	NE
POLYNUCLEAR AROMATIC HYDROCARBONS										
Acenaphthene	mg/kg	ND	ND	ND	ND	**0.042**	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	ND	**0.04**	NE	NE	NE	NE
Anthracene	mg/kg	ND	ND	ND	ND	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	ND	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	ND	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	ND	ND	ND	ND	ND	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	ND	ND	ND	ND	ND	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	ND	ND	ND	**0.11**	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	ND	ND	ND	**0.16**	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	ND	ND	ND	ND	**0.21**	NE	NE	NE	NE
Pyrene	mg/kg	ND	ND	ND	ND	ND	2,300 (ing)	21,000	61,000 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Background Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: AEH
Checked by: MSR

TABLE 5

SUMMARY OF SOIL ANALYTICAL DATA - LANDFILL #5

Fort Sheridan
Highland Park, Illinois

Sample ID / Sample Depth (feet) / Sample Date / Parameter	Units	LF5-A 5.0 - 6.0 8/30/05	LF5-A-1 2.0 - 3.0 8/30/05	LF5-B 9.0 - 12.0 8/30/05	LF5-B-1 0.5 - 2.0 8/30/05	LF5-C 2.0 - 4.0 8/30/05	LF5-D 9.0 - 10.0 8/30/05	LF5-D-1 1.0 - 2.0 8/30/05	LF5-E 7.0 - 8.0 8/30/05	LF5-F 7.0 - 8.0 8/30/05	LF5-F1 3.0 - 4.0 8/30/05	TACO Tier 1 Residential Objectives (1)	TACO Tier 1 Class II Groundwater Objectives (2)	TACO Tier 1 Construction Worker Objectives (3)	TACO Background Values Within MSA (4), (5)
VOLATILES															
Carbon disulfide	mg/kg	NA	**0.005**	NA	ND	NA	NA	ND	NA	NA	ND	720 (inh)	160	9.0 (inh)	NE
POLYNUCLEAR AROMATIC HYDROCARBONS															
Acenaphthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	ND	ND	**0.16**	**0.041**	ND	**0.091**	ND	ND	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	ND	ND	ND	**1.1**	**0.067**	ND	**0.6**	ND	ND	ND	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	ND	ND	**0.95**	**0.11**	ND	**0.52**	ND	ND	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	**1**	**0.17**	ND	**0.65**	ND	ND	ND	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	**0.49**	ND	ND	**0.31**	ND	ND	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	**0.56**	**0.13**	ND	**0.23**	ND	ND	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	ND	ND	ND	**0.85**	**0.045**	ND	**0.44**	ND	ND	ND	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	**0.22**	ND	ND	**0.16**	ND	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	ND	ND	ND	**2.1**	**0.086**	ND	**1.1**	ND	ND	ND	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	**0.45**	ND	ND	**0.29**	ND	ND	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	ND	ND	**0.047**	ND	ND	**0.042**	ND	ND	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	ND	ND	ND	**0.69**	**0.041**	ND	**0.43**	ND	ND	ND	NE	NE	NE	NE
Pyrene	mg/kg	ND	ND	ND	**1.7**	**0.075**	ND	**0.89**	ND	ND	ND	2,300 (ing)	21,000	61,000 (ing)	NE
RCRA METALS															
Arsenic	mg/kg	**6.3**	NA	**6.4**	NA	**5.2**	**6.8**	NA	**5.5**	**6.9**	NA	750 (inh)	NE	61 (ing)	13
Barium	mg/kg	**46**	NA	**52**	NA	**44**	**37**	NA	**47**	**38**	NA	5,500 (ing)	NE	14,000 (ing)	110
Cadmium	mg/kg	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	78 (ing)	NE	200 (ing)	0.6
Chromium	mg/kg	**17**	NA	**19**	NA	**9.7**	**17**	NA	**19**	**16**	NA	230 (ing)	NE	690 (inh)	16.2
Lead	mg/kg	**12**	NA	**13**	NA	**32**	**13**	NA	**12**	**12**	NA	400 (ing)	NE	400 (ing)	36
Mercury	mg/kg	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	10 (inh)	NE	61 (ing)	0.06
Selenium	mg/kg	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	390 (ing)	NE	1,000 (ing)	0.48
Silver	mg/kg	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	390 (ing)	NE	1,000 (ing)	0.55

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
(5): The concentrations of inorganic chemicals in background soil for Counties Within Metropolitan Statistical Areas, 35 IAC 742 Appendix A, Table G
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: DEN
Checked by: EJW

TABLE 6

SUMMARY OF SOIL ANALYTICAL DATA - COAL STORAGE AREA #3

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Location Sample Date Parameter	Units	Coal Store 3-A 3.25 Coal Storage Area #3 8/31/05	Coal Store 3-B 2.0 Coal Storage Area #3 8/31/05	Coal Store 3-C 3.25 Coal Storage Area #3 8/31/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier 1 Construction Worker Objectives (3)	TACO Background Values Within MSA (4), (5)
POLYNUCLEAR AROMATIC HYDROCARBONS								
Acenaphthene	mg/kg	ND	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	**1.4**	**0.076**	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	ND	**3.8**	**0.22**	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	**1.8**	**0.24**	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	**2.8**	**0.39**	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	**0.96**	**0.22**	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	**0.8**	**0.1**	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	ND	**4.3**	**0.21**	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	**0.14**	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	ND	**8.4**	**0.57**	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	**0.4**	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	**0.84**	**0.17**	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	**0.4**	**0.047**	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	ND	**4.7**	**0.33**	NE	NE	NE	NE
Pyrene	mg/kg	ND	**6.9**	**0.46**	2,300 (ing)	21,000	61,000 (ing)	NE
RCRA METALS								
Arsenic	mg/kg	**7.8**	**8.7**	**23**	750 (inh)	NE	61 (ing)	13
Barium	mg/kg	**51**	**190**	**260**	5,500 (ing)	NE	14,000 (ing)	110
Cadmium	mg/kg	ND	**1.4**	**3.5**	78 (ing)	NE	200 (ing)	0.6
Chromium	mg/kg	**16**	**30**	**14**	230 (ing)	NE	690 (inh)	16.2
Lead	mg/kg	**14**	**410**	**440**	400 (ing)	NE	400 (ing)	36
Mercury	mg/kg	ND	**0.2**	**0.59**	10 (inh)	NE	61 (ing)	0.06
Selenium	mg/kg	ND	ND	**1.2**	390 (ing)	NE	1,000 (ing)	0.48
Silver	mg/kg	ND	ND	ND	390 (ing)	NE	1,000 (ing)	0.55

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
(5): The concentrations of inorganic chemicals in background soil for Counties Within Metropolitan Statistical Areas, 35 IAC 742 Appendix A, Table G
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: DEN
Checked by: EJW

TABLE 7

SUMMARY OF METHANE MONITORING - IR SITES #3 AND #4
LANDFILL #6 AND LANDFILL #7

Fort Sheridan
Highland Park, Illinois

Well ID	Well Depth (feet below TOC)	Well Screen Depth (feet below TOC)	Length of Well Screen Above Water Table (feet)	Date Monitored	Methane (%)	Carbon Dioxide (%)	Oxygen (%)
GV1	19.65	4.65 - 19.65	0.73	9/8/2005	0 - 1.0	0.5 - 6.1	12.0 - 20.3
GV1	19.65	4.65 - 19.65	0.73	9/12/2005	0.1 - 2.0	0.6 - 8.1	7.0 - 20.9
GV1	19.65	4.65 - 19.65	0[4]	9/27/2005	0 - 9.0	1.1 - 8.4	11.3 - 19.4
GV2	15.11	5.11 - 15.11	7.77	9/8/2005	0	0.3 - 1.3	15.9 - 20.7
GV2	15.11	5.11 - 15.11	4.57	9/27/2005	0	0.3 - 0.5	18.7 - 19.5
GV3	18.97	3.97 - 18.97	12.43	9/8/2005	0	0.4 - 1.5	18.5 - 20.3
GV4	19.20	4.20 - 19.20	12.74	9/8/2005	0	0.4 - 1.4	17.3 - 20.0
GV5	19.32	4.32 - 19.32	10.23	9/8/2005	0	0.1 - 0.2	16.3 - 20.7
GV6	18.98	3.98 - 18.98	3.88	9/8/2005	0	0.4 - 0.9	18.0 - 20.5
GV6	18.98	3.98 - 18.98	3.88	9/12/2005	0 - 0.2	0.3 - 0.7	18.5 - 20.9
GV7	18.87	3.87 - 18.97	13.71	9/9/2005	0	2.0 - 2.9	18.1 - 19.8
GV7	18.87	3.87 - 18.97	13.71	9/12/2005	0.2 - 0.3	1.7 - 2.3	19.2 - 20.2
GV8	19.37	4.37 - 19.37	8.55	9/9/2005	0	0.2 - 1.4	15.6 - 20.1
GV8	19.37	4.37 - 19.37	8.55	9/12/2005	0 - 0.2	0.1 - 0.2	19.7 - 20.4
GV9	19.52	4.52 - 19.52	10.70	9/9/2005	0	0.4 - 0.9	17.5 - 20.1
GV9	19.52	4.52 - 19.52	10.70	9/12/2005	0.1 - 0.3	0.2 - 0.7	16.6 - 21.2
GV10	19.64	4.64 - 19.64	11.08	9/9/2005	0	0.1 - 2.4	14.7 - 20.9
GV11	19.73	4.73 - 19.73	10.90	9/9/2005	0	0.1 - 1.1	17.5 - 20.5
GV11	19.73	4.73 - 19.73	10.90	9/12/2005	0.2 - 0.3	0 - 1.0	16.8 - 21.1
GV12	17.97	2.97 - 17.97	11.55	9/9/2005	0 - 0.1	0 - 0.1	18.1 - 21.3
GV13	19.63	4.63 - 19.63	6.71	9/9/2005	0	0.1 - 0.6	14.3 - 20.5
GV13	19.63	4.63 - 19.63	6.71	9/12/2005	0	0.1 - 1.1	14.4 - 20.3
GV14	20.00	5.00 - 20.00	9.63	9/9/2005	0	0.1 - 0.7	16.6 - 20.1
GV15	19.92	4.92 - 19.92	11.77	9/9/2005	0 - 0.1	0.1 - 0.8	18.4 - 19.6
GV15	19.92	4.92 - 19.92	11.77	9/12/2005	0 - 0.2	0.5 - 1.1	17.7 - 19.2
GV16	19.42	4.42 - 19.42	2.58	9/9/2005	0 - 0.1	0.4 - 1.0	18.0 - 20.1
GV17	19.68	4.69 - 19.68	11.84	9/12/2005	0	0.2 - 1.1	13.5 - 19.1
GV18	19.61	4.61 - 19.61	12.63	9/12/2005	0	5.7 - 8.7	12.8 - 16.0
GV19	19.80	4.80 - 19.80	9.87	9/12/2005	0 - 0.2	0.2 - 1.0	16.0 - 19.1
GV20	19.72	4.72 - 19.72	11.56	9/12/2005	0 - 0.1	0 - 0.7	16.0 - 21.0
GV21	19.66	4.66 - 19.66	4.25	9/12/2005	0	0.2 - 1.1	17.5 - 20.9
GV22	19.70	4.70 - 19.70	10.76	9/12/2005	0	0 - 0.3	17.7 - 20.1
GV23	19.79	4.79 - 19.79	12.33	9/12/2005	0 - 0.2	0 - 0.4	18.8 - 20.7
GV24	19.79	4.79 - 19.79	14.16	9/12/2005	0.1 - 0.2	1.4 - 2.1	17.8 - 19.6
GV25	19.71	4.71 - 19.71	1.51	9/27/2005	0	2.9 - 12.9	3.1 - 16.6
GV26	19.77	4.77 - 19.77	14.33	9/27/2005	0	2.4 - 4.4	15.6 - 17.8
GV27	19.55	4.55 - 19.55	12.83	9/27/2005	0	0.8 - 2.9	9.8 - 19.2
GV28	19.50	4.50 - 19.50	12.54	9/27/2005	0	0.8 - 3.5	13.8 - 17.6
GV29	19.46	4.46 - 19.46	0[4]	9/27/2005	0[5]	0.0 - 0.2	17.4 - 19.9
GV30	19.66	4.66 - 19.66	13.7	9/27/2005	0	1.0 - 2.0	16.4 - 17.6
GV31	19.53	4.53 - 19.53	10.79	9/27/2005	0	0.1 - 0.8	17.1 - 19.0

Notes:
1) The wells were monitored for methane, carbon dioxide and oxygen using a GEM™ 2000 Landfill Gas Extraction Monitor.
2) Length of monitoring ranged from 5 to 10 consecutive minutes on all wells except GV-29. See Note 4 for details.
3) TOC = Top of Casing
4) After performing methane monitoring, water levels in GV-1 and GV-29 covered the slotted screen by 0.35' and 2.01', respectively.
5) GV-29 was monitored for 2 minutes due to water present prior to monitoring at 3.68' below TOC, or 0.78' above the slotted screen.

Prepared by: MSR & AEH
Checked by: EJW & DEN

TABLE 8

SUMMARY OF SOIL ANALYTICAL DATA - EXCAVATION AREA #8

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	Ex Area 8-A 1.75 8/31/05	Ex Area 8-B 1.75 8/31/05	Ex Area 8-C 7 8/31/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
POLYNUCLEAR AROMATIC HYDROCARBONS								
Acenaphthene	mg/kg	ND	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	ND	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	ND	ND	ND	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	ND	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	ND	ND	ND	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	ND	ND	ND	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	ND	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	ND	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	ND	ND	ND	NE	NE	NE	NE
Pyrene	mg/kg	ND	ND	ND	2,300 (ing)	21,000	61,000 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection

Prepared by: DEN
Checked by: EJW

TABLE 9

SUMMARY OF SOIL ANALYTICAL DATA - IR SITE 7, VEHICLE AND EQUIPMENT STORAGE AREA #3 (VES #3)

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	VES#3-A 9 - 10 7/14/05	VES#3-B 1 - 2 7/14/05	VES#3-C 3 - 4 7/14/05	VES#3-D 1 - 2 7/14/05	VES#3-E 5 - 6 7/14/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
VOLATILES										
Benzene	mg/kg	NA	NA	NA	NA	ND	0.8 (inh)	0.17	2.2 (inh)	NE
Toluene	mg/kg	NA	NA	NA	NA	ND	650 (inh)	29	42 (inh)	NE
Ethylbenzene	mg/kg	NA	NA	NA	NA	ND	400 (inh)	19	58 (inh)	NE
Xylenes, Total	mg/kg	NA	NA	NA	NA	ND	320 (inh)	150	320 (inh)	NE
POLYNUCLEAR AROMATIC HYDROCARBONS										
Acenaphthene	mg/kg	**1.8**	ND	ND	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	**0.44**	ND	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	**1.2**	ND	ND	**0.06**	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	**0.22**	ND	ND	**0.33**	ND	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	**0.065**	ND	ND	**0.32**	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	**0.12**	ND	ND	**0.32**	ND	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	**0.079**	ND	ND	**0.062**	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	**0.063**	ND	ND	**0.12**	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	**0.36**	ND	ND	**0.33**	ND	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	**0.53**	ND	ND	**0.67**	ND	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	**2.8**	ND	ND	ND	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	**0.067**	ND	ND	**0.066**	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	**6.7**	ND	ND	ND	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	**9.5**	ND	ND	**0.17**	ND	NE	NE	NE	NE
Pyrene	mg/kg	**0.58**	ND	ND	**0.58**	ND	2,300 (ing)	21,000	61,000 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix B Table A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix B Table A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix B Table B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: AEH
Checked by: MSR

TABLE 10

SUMMARY OF SOIL ANALYTICAL DATA - IR SITE 11, VEHICLE AND EQUIPMENT STORAGE AREA #7 (VES #7)

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	VES#7-A 1 - 2 7/14/05	VES#7-B 4 - 6 7/14/05	VES#7-C 2 - 3 7/15/05	TACO Tier 1 Residential Objectives (1)	TACO Tier 1 Class II Groundwater Objectives (2)	TACO Tier 1 Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
POLYNUCLEAR AROMATIC HYDROCARBONS								
Acenaphthene	mg/kg	ND	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	ND	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	**0.036**	ND	**0.072**	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	ND	**0.061**	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	ND	**0.084**	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	ND	**0.033**	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	ND	**0.032**	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	**0.045**	ND	**0.074**	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	**0.077**	ND	**0.16**	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	ND	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	**0.028**	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	ND	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	**0.031**	ND	**0.083**	NE	NE	NE	NE
Pyrene	mg/kg	**0.064**	ND	**0.13**	2,300 (ing)	21,000	61,000 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection

Prepared by: AEH
Checked by: MSR

TABLE 11

SUMMARY OF SOIL ANALYTICAL DATA - IR SITE 13, BARTLETT RAVINE

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	BR-1 0 - 1' 7/19/05	BR-2 0 - 1' 7/19/05	BR-3 0 - 1' 7/19/05	BR-4 0 - 1' 7/19/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier 1 Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
POLYNUCLEAR AROMATIC HYDROCARBONS									
Acenaphthene	mg/kg	ND	ND	ND	**0.95**	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	**0.04**	NE	NE	NE	NE
Anthracene	mg/kg	**0.18**	**0.06**	ND	**3.4**	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	**0.68**	**0.36**	**0.12**	**4.8**	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	**0.52**	**0.15**	**0.13**	**4.3**	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	**0.7**	**0.19**	**0.17**	**4.4**	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	**0.26**	**0.093**	**0.065**	**0.96**	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	**0.59**	**0.16**	**0.091**	**3.9**	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	**0.79**	**0.36**	**0.14**	**4.9**	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	**0.074**	ND	ND	**0.39**	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	**1.3**	**0.57**	**0.27**	**13**	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	**0.058**	ND	ND	**1.6**	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	**0.26**	**0.1**	**0.067**	**1**	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	**0.12**	ND	ND	**0.75**	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	**0.88**	**0.32**	**0.14**	**12**	NE	NE	NE	NE
Pyrene	mg/kg	**1.1**	**0.5**	**0.22**	**10**	2,300 (ing)	21,000	61,000 (ing)	NE
PESTICIDES									
4,4'-DDD	mg/kg	**0.047**	**2.9**	**0.052**	**0.12**	3 (ing)	80	520 (ing)	NE
4,4'-DDE	mg/kg	**0.15**	**0.24**	**0.12**	**0.062**	2 (ing)	270	370 (ing)	NE
4,4'-DDT	mg/kg	**0.16**	**0.27**	**0.062**	**0.057**	2 (ing)	160	100 (ing)	NE
Aldrin	mg/kg	ND	ND	ND	ND	0.04 (ing)	2.5	6.1 (ing)	NE
alpha-BHC	mg/kg	ND	ND	ND	ND	0.1 (ing)	0.003	2.1 (inh)	NE
alpha-Chlordane	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
beta-BHC	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Chlordane	mg/kg	ND	ND	ND	ND	1.8 (ing)	48	22 (inh)	NE
delta-BHC	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Dieldrin	mg/kg	ND	ND	ND	ND	0.04 (ing)	0.02	3.1 (inh)	NE
Endosulfan I	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Endosulfan II	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Endosulfan sulfate	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Endrin	mg/kg	ND	ND	ND	ND	23 (ing)	5	61 (ing)	NE
Endrin aldehyde	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Endrin ketone	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
gamma-BHC	mg/kg	ND	ND	ND	ND	0.5 (ing)	0.047	96 (ing)	NE
gamma-Chlordane	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Heptachlor	mg/kg	ND	ND	ND	ND	0.1 (ing/inh)	110	16 (inh)	NE
Heptachlor epoxide	mg/kg	ND	ND	ND	ND	0.07 (ing)	3.3	2.7 (ing)	NE
Methoxychlor	mg/kg	ND	ND	ND	ND	390 (ing)	780	1000 (ing)	NE
Toxaphene	mg/kg	ND	ND	ND	ND	0.6 (ing)	150	110 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: AEH
Checked by: MSR

TABLE 12

SUMMARY OF SOIL ANALYTICAL DATA - IR SITE 15, VAN HORNE RAVINE

Fort Sheridan
Highland Park, Illinois

Sample ID / Sample Depth (feet) / Sample Date / Parameter	Units	VH-1 0 - 1' 7/19/05	VH-2 0 - 1' 7/19/05	VH-3 0 - 1' 7/19/05	VH-4 0 - 1' 7/19/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier 1 Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
POLYNUCLEAR AROMATIC HYDROCARBONS									
Acenaphthene	mg/kg	**0.14**	**0.037**	**0.75**	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	**0.049**	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	**0.36**	**0.082**	**1.7**	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	**1.1**	**0.33**	**6.8**	ND	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	**1.1**	**0.33**	**8.4**	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	**1.4**	**0.49**	**8.2**	**0.031**	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	**0.64**	**0.19**	**6**	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	**0.7**	**0.16**	**2.4**	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	**1.3**	**0.37**	**8.9**	**0.031**	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	**0.15**	**0.045**	**0.8**	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	**3.1**	**0.91**	**21**	**0.071**	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	**0.26**	**0.064**	**1.1**	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	**0.6**	**0.18**	**5.2**	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	**0.076**	ND	**0.12**	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	**2.1**	**0.58**	**14**	**0.041**	NE	NE	NE	NE
Pyrene	mg/kg	**2.3**	**0.69**	**16**	**0.053**	2,300 (ing)	21,000	61,000 (ing)	NE
PESTICIDES									
4,4´-DDD	mg/kg	**0.012**	**0.24**	**0.33**	ND	3 (ing)	80	520 (ing)	NE
4,4´-DDE	mg/kg	**0.0061**	**0.015**	**0.04**	ND	2 (ing)	270	370 (ing)	NE
4,4´-DDT	mg/kg	**0.0042**	**0.028**	**0.11**	ND	2 (ing)	160	100 (ing)	NE
Aldrin	mg/kg	ND	ND	ND	ND	0.04 (ing)	2.5	6.1 (ing)	NE
alpha-BHC	mg/kg	ND	ND	ND	ND	0.1 (ing)	0.003	2.1 (inh)	NE
alpha-Chlordane	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
beta-BHC	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Chlordane	mg/kg	ND	ND	ND	ND	1.8 (ing)	48	22 (inh)	NE
delta-BHC	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Dieldrin	mg/kg	ND	ND	ND	ND	0.04 (ing)	0.02	3.1 (inh)	NE
Endosulfan I	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Endosulfan II	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Endosulfan sulfate	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Endrin	mg/kg	ND	ND	ND	ND	23 (ing)	5	61 (ing)	NE
Endrin aldehyde	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Endrin ketone	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
gamma-BHC	mg/kg	ND	ND	ND	ND	0.5 (ing)	0.047	96 (ing)	NE
gamma-Chlordane	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Heptachlor	mg/kg	ND	ND	ND	ND	0.1 (ing/inh)	110	16 (inh)	NE
Heptachlor epoxide	mg/kg	ND	ND	ND	ND	0.07 (ing)	3.3	2.7 (ing)	NE
Methoxychlor	mg/kg	ND	ND	ND	ND	390 (ing)	780	1000 (ing)	NE
Toxaphene	mg/kg	ND	ND	ND	ND	0.6 (ing)	150	110 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: AEH
Checked by: MSR

TABLE 13

SUMMARY OF SOIL ANALYTICAL DATA - IR SITE 16, SCHENCK RAVINE

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	SR-1 0 - 1 7/18/05	SR-2 0 - 1 7/18/05	SR-3 0 - 1 7/18/05	SR-4 0 - 1 7/18/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier 1 Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
POLYNUCLEAR AROMATIC HYDROCARBONS									
Acenaphthene	mg/kg	**0.78**	ND	**0.081**	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	**1.6**	**0.061**	**0.18**	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	**5.3**	**0.17**	**0.68**	ND	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	**3.9**	**0.15**	**0.51**	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	**5.1**	**0.14**	**0.52**	ND	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	**2.5**	**0.1**	**0.25**	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	**4**	**0.15**	**0.51**	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	**6**	**0.18**	**0.74**	ND	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	**0.85**	ND	**0.096**	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	**13**	**0.4**	**1.4**	ND	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	**1**	ND	**0.062**	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	**2.6**	**0.097**	**0.26**	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	**0.24**	ND	ND	**0.061**	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	**8.7**	**0.23**	**0.89**	**0.071**	NE	NE	NE	NE
Pyrene	mg/kg	**9.5**	**0.31**	**1.2**	ND	2,300 (ing)	21,000	61,000 (ing)	NE
PESTICIDES									
4,4´-DDD	mg/kg	**3.7**	**11**	**0.46**	**0.086**	3 (ing)	80	520 (ing)	NE
4,4´-DDE	mg/kg	**1.1**	**0.35**	**0.016**	**0.0058**	2 (ing)	270	370 (ing)	NE
4,4´-DDT	mg/kg	**0.97**	**0.75**	**0.1**	**0.0043**	2 (ing)	160	100 (ing)	NE
Aldrin	mg/kg	ND	ND	ND	ND	0.04 (ing)	2.5	6.1 (ing)	NE
alpha-BHC	mg/kg	ND	ND	ND	ND	0.1 (ing)	0.003	2.1 (inh)	NE
alpha-Chlordane	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
beta-BHC	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Chlordane	mg/kg	ND	ND	ND	ND	1.8 (ing)	48	22 (inh)	NE
delta-BHC	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Dieldrin	mg/kg	ND	ND	ND	ND	0.04 (ing)	0.02	3.1 (inh)	NE
Endosulfan I	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Endosulfan II	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Endosulfan sulfate	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Endrin	mg/kg	ND	ND	ND	ND	23 (ing)	5	61 (ing)	NE
Endrin aldehyde	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Endrin ketone	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
gamma-BHC	mg/kg	ND	ND	ND	ND	0.5 (ing)	0.047	96 (ing)	NE
gamma-Chlordane	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Heptachlor	mg/kg	ND	ND	ND	ND	0.1 (ing/inh)	110	16 (inh)	NE
Heptachlor epoxide	mg/kg	ND	ND	ND	ND	0.07 (ing)	3.3	2.7 (ing)	NE
Methoxychlor	mg/kg	ND	ND	ND	ND	390 (ing)	780	1000 (ing)	NE
Toxaphene	mg/kg	ND	ND	ND	ND	0.6 (ing)	150	110 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection laboratory
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: AEH
Checked by: MSR

TABLE 14

SUMMARY OF SOIL ANALYTICAL DATA - IR SITES 17 - 20, FORMER AMMUNITION STORAGE BUILDINGS AND FORMER CAC FIRING RANGE (BUILDINGS 384, 388, 389, AND 390)

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	384-A 0.75 - 1 7/14/05	384-B 0.75 - 1 7/14/05	388 1 - 2 7/14/05	389 1 - 2 7/14/05	390 1 - 2 7/14/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
POLYNUCLEAR AROMATIC HYDROCARBONS										
Acenaphthene	mg/kg	ND	**0.066**	ND	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	**0.25**	ND	ND	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	**0.038**	**0.51**	**0.072**	**0.029**	**0.068**	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	**0.32**	**0.05**	ND	**0.06**	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	**0.33**	**0.065**	**0.033**	**0.076**	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	**0.23**	ND	ND	**0.045**	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	**0.3**	**0.057**	ND	**0.064**	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	**0.042**	**0.47**	**0.065**	**0.036**	**0.072**	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	**0.057**	ND	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	**0.065**	**1.2**	**0.13**	**0.052**	**0.12**	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	**0.11**	ND	ND	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	**0.21**	ND	ND	**0.038**	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	**0.059**	ND	ND	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	**0.038**	**0.9**	**0.079**	**0.03**	**0.053**	NE	NE	NE	NE
Pyrene	mg/kg	**0.057**	**0.96**	**0.11**	**0.044**	**0.11**	2,300 (ing)	21,000	61,000 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: AEH
Checked by: MSR

TABLE 15

SUMMARY OF SOIL ANALYTICAL DATA - IR SITE 35, BUILDING 361 YARD AREA

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	361A 2 - 3 7/12/05	361B 3.5 - 4 7/12/05	361C 1 - 2 7/12/05	361D 3 - 4 7/12/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
VOLATILES									
Benzene	mg/kg	NA	NA	NA	ND	0.8 (inh)	0.17	2.2 (inh)	NE
Toluene	mg/kg	NA	NA	NA	**0.0065**	650 (inh)	29	42 (inh)	NE
Ethylbenzene	mg/kg	NA	NA	NA	ND	400 (inh)	19	58 (inh)	NE
Xylenes, Total	mg/kg	NA	NA	NA	**0.034**	320 (inh)	150	320 (inh)	NE
POLYNUCLEAR AROMATIC HYDROCARBONS									
Acenaphthene	mg/kg	**0.036**	ND	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	**0.17**	ND	ND	**0.052**	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	**0.49**	ND	ND	**0.19**	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	**0.48**	ND	ND	**0.16**	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	**0.57**	ND	**0.032**	**0.15**	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	**0.17**	ND	ND	**0.061**	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	**0.35**	ND	ND	**0.16**	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	**0.59**	ND	ND	**0.22**	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	**0.059**	ND	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	**0.96**	ND	**0.05**	**0.38**	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	**0.04**	ND	ND	**0.094**	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	**0.15**	ND	ND	**0.057**	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	**0.13**	ND	ND	**0.79**	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	**0.99**	ND	ND	**0.26**	NE	NE	NE	NE
Pyrene	mg/kg	**0.9**	ND	**0.041**	**0.33**	2,300 (ing)	21,000	61,000 (ing)	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: AEH
Checked by: MSR

TABLE 16

SUMMARY OF SOIL ANALYTICAL DATA - IR SITE 36, BUILDING 368 YARD AREA - AUTO MECHANICS SHOP

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Location Sample Date Parameter	Units	368A 9 Yard Area 7/14/05	368B 1 Yard Area 7/14/05	368F 1 - 3 Yard Area 7/14/05	368G 1 - 3 Yard Area 7/14/05	368-SS 0.5 Swale 7/14/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4), (5)
POLYNUCLEAR AROMATIC HYDROCARBONS										
Acenaphthene	mg/kg	ND	ND	ND	ND	**0.24**	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	ND	**0.055**	ND	**0.54**	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	ND	ND	**0.23**	**0.13**	**1.1**	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	ND	**0.16**	**0.11**	**0.78**	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	ND	**0.23**	**0.11**	**1.1**	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	ND	**0.089**	**0.053**	**0.42**	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	ND	**0.12**	**0.098**	**0.59**	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	ND	**0.034**	**0.24**	**0.13**	**1.1**	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	**0.087**	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	ND	**0.052**	**0.51**	**0.27**	**2.6**	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	ND	ND	ND	**0.28**	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	**0.081**	**0.053**	**0.39**	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	ND	ND	ND	**0.14**	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	ND	**0.04**	**0.27**	**0.1**	**2.4**	NE	NE	NE	NE
Pyrene	mg/kg	ND	**0.043**	**0.4**	**0.22**	**2.1**	2,300 (ing)	21,000	61,000 (ing)	NE
RCRA METALS										
Lead	mg/kg	NA	NA	NA	NA	**200**	400 (ing)	NE	400 (ing)	36

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix B Table A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II groundwater, 35 IAC 742 Appendix B Table A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Appendix B Table B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Background Carcinogenic PAH
(5): The concentrations of inorganic chemicals in background soil for Counties Within Metropolitan Statistical Areas, 35 IAC 742 Appendix A, Table G
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: AEH
Checked by: MSR

TABLE 17

SUMMARY OF SOIL ANALYTICAL DATA - WELLS RAVINE TRIBUTARY - NORTH EXTENSION

Fort Sheridan
Highland Park, Illinois

Sample ID / Sample Depth (feet) / Sample Date / Parameter	Units	B-49A 1.0 - 4.0 8/29/05	B-73A 5.0 - 7.0 8/29/05	B-73B 1.0 - 2.5 8/29/05	B-74A 4.0 - 8.0 8/29/05	B-74B 1.5 - 3.0 8/29/05	B-74C 1.0 - 4.0 8/29/05	LF7-A 1.0 - 3.0 8/30/05	LF7-A-1 6.5 - 8.0 8/30/05	LF7-B 1.0 - 3.0 8/30/05	LF7-B-1 13.0 - 15.0 8/30/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4), (5)
VOLATILES															
Acetone	mg/kg	ND	ND	**0.058**	ND	ND	**0.14**	ND	**0.07**	ND	ND	7800 (ing)	16	100,000 (inh)	NE
Benzene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.014**	ND	ND	0.8 (inh)	0.17	2.2 (inh)	NE
2-Butanone	mg/kg	ND	ND	ND	ND	ND	**0.013**	ND	ND	ND	ND	NE	NE	NE	NE
cis-1,2-Dichloroethene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**2.6**	ND	ND	780 (ing)	1.1	1,200 (inh)	NE
trans-1,2-Dichloroethene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.011**	ND	ND	1600 (ing)	3.4	3,100 (inh)	NE
Trichloroethene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**6.9**	ND	ND	5 (inh)	0.3	12 (inh)	NE
POLYNUCLEAR AROMATIC HYDROCARBONS															
Acenaphthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**1.2**	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**0.14**	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**5.2**	ND	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	ND	ND	ND	ND	**0.043**	ND	ND	**15**	ND	ND	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	ND	ND	ND	**0.12**	ND	ND	**11**	ND	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**12**	ND	ND	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**5.7**	ND	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**6.3**	ND	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	ND	ND	**0.034**	ND	**0.04**	ND	ND	**11**	ND	ND	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**1.4**	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	**0.028**	ND	**0.047**	ND	**0.087**	ND	ND	**32**	ND	ND	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**1.9**	ND	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	ND	ND	ND	ND	**5.2**	ND	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	ND	ND	ND	**0.069**	ND	ND	**0.96**	ND	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	**0.042**	ND	ND	ND	**0.1**	ND	**0.043**	**21**	ND	ND	NE	NE	NE	NE
Pyrene	mg/kg	**0.03**	ND	**0.033**	ND	**0.08**	ND	ND	**24**	ND	ND	2,300 (ing)	21,000	61,000 (ing)	NE
METALS															
Lead	mg/kg	**12**	**13**	**28**	**15**	**30**	**24**	**11**	**1,400**	**20**	**14**	400 (ing)	NE	400 (ing)	36

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
(5): The concentrations of inorganic chemicals in background soil for Counties Within Metropolitan Statistical Areas, 35 IAC 742 Appendix A, Table G
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: DEN
Checked by: EJW

TABLE 18

SUMMARY OF SOIL ANALYTICAL DATA - SURFICIAL LEAD SOIL SAMPLES

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	420-Pb-1 0 - 0.5' 7/19/05	420-Pb-2 0 - 0.5' 7/19/05	420-Pb-3 0 - 0.5' 7/19/05	421-Pb-1 0 - 0.5' 7/19/05	422-Pb-1 0 - 0.5' 7/19/05	422-Pb-2 0 - 0.5' 7/19/05	422-Pb-3 0 - 0.5' 7/19/05	423-Pb-1 0 - 0.5' 7/19/05	423-Pb-2 0 - 0.5' 7/19/05	423-Pb-3 0 - 0.5' 7/19/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
METALS															
Lead	mg/kg	**860**	**6,300**	**520**	**920**	**2,000**	**2,000**	**1,900**	**1,900**	**16,000**	**1,200**	400 (ing)	NE	400 (ing)	36
TCLP - METALS															
Lead	mg/L	NA	NA	NA	NA	**6.9**	NA	NA	NA	**4.2**	NA	NE	0.1	NE	NE

Sample ID Sample Depth (feet) Sample Date Parameter	Units	423-Pb-4 0 - 0.5' 7/19/05	424-Pb-1 0 - 0.5' 7/19/05	424-Pb-2 0 - 0.5' 7/19/05	424-Pb-3 0 - 0.5' 7/19/05	424-Pb-4 0 - 0.5' 7/19/05	425-Pb-1 0 - 0.5' 7/19/05	425-Pb-2 0 - 0.5' 7/19/05	426-Pb-1 0 - 0.5' 7/19/05	426-Pb-2 0 - 0.5' 7/19/05	426-Pb-3 0 - 0.5' 7/19/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
METALS															
Lead	mg/kg	**3,900**	**870**	**580**	**1,400**	**2,100**	**1,200**	**2,600**	**1,100**	**9,600**	**740**	400 (ing)	NE	400 (ing)	36
TCLP - METALS															
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	**6.1**	NA	NE	0.1	NE	NE

Sample ID Sample Depth (feet) Sample Date Parameter	Units	427-Pb-1 0 - 0.5' 7/19/05	427-Pb-2 0 - 0.5' 7/19/05	427-Pb-3 0 - 0.5' 7/19/05	428-Pb-1 0 - 0.5' 7/19/05	428-Pb-2 0 - 0.5' 7/19/05	430-Pb-1 0 - 0.5' 7/19/05	430-Pb-2 0 - 0.5' 7/19/05	431-Pb-1 0 - 0.5' 7/19/05	431-Pb-2 0 - 0.5' 7/19/05	431-Pb-3 0 - 0.5' 7/19/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
METALS															
Lead	mg/kg	**1,100**	**3,200**	**1,100**	**1,800**	**1,400**	**520**	**600**	**570**	**1,900**	**580**	400 (ing)	NE	400 (ing)	36
TCLP - METALS															
Lead	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	0.1	NE	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The concentrations of inorganic chemicals in background soil for Counties Within Metropolitan Statistical Areas, 35 IAC 742 Appendix A, Table G
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
NA Not analyed
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: AEH
Checked by: MSR

TABLE 18

SUMMARY OF SOIL ANALYTICAL DATA - SURFICIAL LEAD SOIL SAMPLES

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Sample Date Parameter	Units	440-Pb-1 0 - 0.5' 7/19/05	441-Pb-1 0 - 0.5' 7/19/05	445-Pb-1 0 - 0.5' 7/19/05	447-Pb-1 0 - 0.5' 7/19/05	447-Pb-2 0 - 0.5' 7/19/05	447-Pb-3 0 - 0.5' 7/19/05	495-Pb-1 0 - 0.5' 7/19/05	642-Pb-1 0 - 0.5' 7/18/05	652-Pb-1 0 - 0.5' 7/18/05	652-Pb-2 0 - 0.5' 7/18/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier 1 Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
METALS															
Lead	mg/kg	**150**	**570**	**2,500**	**11,000**	**180**	**3,000**	**5,000**	**12,000**	**1,000**	**1,400**	400 (ing)	NE	400 (ing)	36
TCLP - METALS															
Lead	mg/L	NA	NA	NA	**8.2**	NA	NA	**11**	**4.3**	NA	NA	NE	0.1	NE	NE

Sample ID Sample Depth (feet) Sample Date Parameter	Units	652-Pb-3 0 - 0.5' 7/18/05	657-Pb-1 0 - 0.5' 7/18/05	660-Pb-1 0 - 0.5' 7/18/05	660-Pb-2 0 - 0.5' 7/18/05	660-Pb-3 0 - 0.5' 7/18/05	661-Pb-1 0 - 0.5' 7/18/05	663-Pb-1 0 - 0.5' 7/18/05	663-Pb-2 0 - 0.5' 7/18/05	664-Pb-1 0 - 0.5' 7/18/05		TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier 1 Construction Worker Objectives (3)	TACO Background Values Within MSA (4)
METALS															
Lead	mg/kg	**160**	**4,000**	**2,200**	**4,900**	**9,800**	**3,000**	**4,800**	**960**	**2,200**		400 (ing)	NE	400 (ing)	36
TCLP - METALS															
Lead	mg/L	NA	**0.077**	NA	NA	NA	NA	NA	NA	NA	NA	NE	0.1	NE	NE

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The concentrations of inorganic chemicals in background soil for Counties Within Metropolitan Statistical Areas, 35 IAC 742 Appendix A, Table G
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
NA Not analyzed
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: AEH
Checked by: MSR

TABLE 19

SUMMARY OF SOIL ANALYTICAL DATA - BUILDING 368 VEHICLE LIFTS - AUTO MECHANICS SHOP

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Location Sample Date Parameter	Units	368C 2 - 4 Lifts 7/14/05	368D 2 - 4 Lifts 7/14/05	368E 2 - 4 Lifts 7/14/05	TACO Tier 1 Residential Objectives (1)	TACO Tier 1 Class II Groundwater Objectives (2)	TACO Tier 1 Construction Worker Objectives (3)	TACO Background Values Within MSA (4), (5)
VOLATILES								
Benzene	mg/kg	ND	**0.0081**	ND	0.8 (inh)	0.17	2.2 (inh)	NE
Toluene	mg/kg	ND	ND	ND	650 (inh)	29	42 (inh)	NE
Ethylbenzene	mg/kg	ND	ND	ND	400 (inh)	19	58 (inh)	NE
Xylenes, Total	mg/kg	ND	ND	ND	320 (inh)	150	320 (inh)	NE
POLYNUCLEAR AROMATIC HYDROCARBONS								
Acenaphthene	mg/kg	ND	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	ND	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	**0.035**	ND	**0.032**	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	**0.032**	ND	ND	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	**0.037**	ND	ND	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	**0.044**	ND	**0.032**	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	**0.075**	ND	**0.062**	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	ND	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	ND	**0.11**	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	**0.037**	ND	**0.036**	NE	NE	NE	NE
Pyrene	mg/kg	**0.057**	ND	**0.05**	2,300 (ing)	21,000	61,000 (ing)	NE
RCRA METALS								
Barium	mg/kg	**76**	**92**	**49**	5,500 (ing)	NE	14,000 (ing)	110

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix B Table A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II groundwater, 35 IAC 742 Appendix B Table A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Appendix B Table B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Background Carcinogenic PAH
(5): The concentrations of inorganic chemicals in background soil for Counties Within Metropolitan Statistical Areas, 35 IAC 742 Appendix A, Table G
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
NA Not analyzed
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection

Prepared by: AEH
Checked by: MSR

TABLE 20

SUMMARY OF SOIL ANALYTICAL DATA - IR SITE 36, BUILDING 368 GREASE TRAP - AUTO MECHANICS SHOP

Fort Sheridan
Highland Park, Illinois

Sample ID Sample Depth (feet) Location Sample Date Parameter	Units	368-AA 1.5 - 2.5 Grease Trap 8/29/05	368-AB 4.0 - 5.5 Grease Trap 8/29/05	368-AC 1.0 - 4.0 Grease Trap 8/29/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier 1 Construction Worker Objectives (3)	TACO Background Values Within MSA (4), (5)
VOLATILES								
Acetone	mg/kg	**0.2**	ND	ND	7800 (ing)	16	100,000 (inh)	NE
2-Butanone	mg/kg	**0.04**	ND	ND	NE	NE	NE	NE
SEMI-VOLATILES								
2-Methylnaphthalene	mg/kg	**1**	ND	ND	NE	NE	NE	NE
Bis(2-ethylhexyl)phthalate	mg/kg	**0.28**	**0.29**	ND	46 (ing)	31,000	4,100 (ing)	NE
POLYNUCLEAR AROMATIC HYDROCARBONS								
Acenaphthene	mg/kg	ND	ND	ND	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	ND	ND	ND	NE	NE	NE	NE
Anthracene	mg/kg	ND	ND	ND	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	ND	ND	**0.074**	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	ND	ND	**0.045**	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	ND	ND	**0.066**	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	ND	ND	ND	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	ND	ND	ND	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	ND	ND	**0.063**	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	ND	ND	ND	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	ND	ND	**0.12**	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	ND	ND	ND	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	ND	ND	ND	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	**2.6**	**0.27**	ND	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	**0.036**	ND	**0.056**	NE	NE	NE	NE
Pyrene	mg/kg	ND	ND	**0.11**	2,300 (ing)	21,000	61,000 (ing)	NE
RCRA METALS								
Arsenic	mg/kg	**7.2**	**11**	**7.1**	750 (inh)	NE	61 (ing)	13
Barium	mg/kg	**200**	**150**	**120**	5,500 (ing)	NE	14,000 (ing)	110
Cadmium	mg/kg	**1.1**	**0.9**	**0.76**	78 (ing)	NE	200 (ing)	0.6
Chromium	mg/kg	**28**	**28**	**22**	230 (ing)	NE	690 (inh)	16.2
Lead	mg/kg	**44**	**37**	**31**	400 (ing)	NE	400 (ing)	36
Mercury	mg/kg	**0.13**	**0.1**	**0.078**	10 (inh)	NE	61 (ing)	0.06
Selenium	mg/kg	**1.6**	ND	ND	390 (ing)	NE	1,000 (ing)	0.48
Silver	mg/kg	ND	ND	ND	390 (ing)	NE	1,000 (ing)	0.55

Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
(5): The concentrations of inorganic chemicals in background soil for Counties Within Metropolitan Statistical Areas, 35 IAC 742 Appendix A, Table G
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection

Prepared by: DEN
Checked by: EJW

TABLE 21

SUMMARY OF SOIL ANALYTICAL DATA - BUILDING 378 - HYDRAULIC LIFTS

Fort Sheridan
Highland Park, Illinois

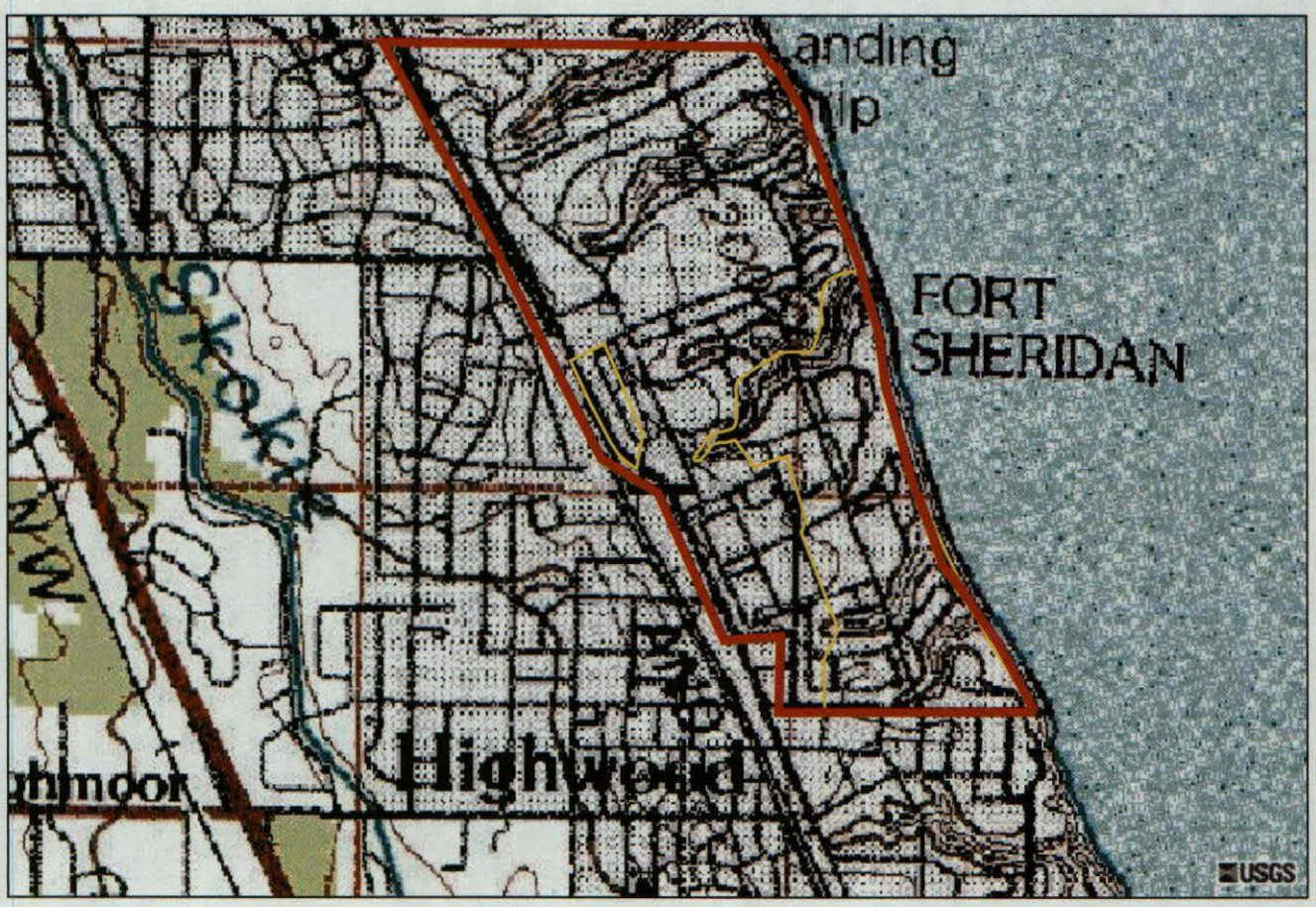
Sample ID Sample Depth (feet) Location Sample Date Parameter	Units	378-AA 1.0 - 4.0 Lifts 8/29/05	378-AB 1.0 - 2.0 Lifts 8/29/05	378-AC 3.0 - 4.0 Lifts 8/30/05	TACO Tier I Residential Objectives (1)	TACO Tier I Class II Groundwater Objectives (2)	TACO Tier I Construction Worker Objectives (3)	TACO Background Values Within MSA (4), (5)
VOLATILES		ND	ND	ND				
SEMI-VOLATILES								
2-Methylnaphthalene	mg/kg	ND	ND	**0.41**	NE	NE	NE	NE
Bis(2-ethylhexyl)phthalate	mg/kg	**0.3**	ND	ND	46 (ing)	31,000	4,100 (ing)	NE
Carbazole	mg/kg	**0.89**	ND	**0.33**	32 (ing)	2.8	6,200 (ing)	NE
Dibenzofuran	mg/kg	**0.35**	ND	ND	NE	NE	NE	NE
POLYNUCLEAR AROMATIC HYDROCARBONS								
Acenaphthene	mg/kg	**0.52**	ND	**0.32**	4,700 (ing)	2,900	120,000 (ing)	NE
Acenaphthylene	mg/kg	**0.13**	ND	**0.13**	NE	NE	NE	NE
Anthracene	mg/kg	**2.2**	**0.074**	**2**	23,000 (ing)	59,000	610,000 (ing)	NE
Benzo(a)anthracene	mg/kg	**11**	**0.27**	**8.9**	0.9 (ing)	8	170 (ing)	1.8
Benzo(a)pyrene	mg/kg	**12**	**0.24**	**8.8**	0.09 (ing)	82	17 (ing)	2.1
Benzo(b)fluoranthene	mg/kg	**14**	**0.32**	**8.9**	0.9 (ing)	25	170 (ing)	2
Benzo(g,h,i)perylene	mg/kg	**7.3**	**0.15**	**5.8**	NE	NE	NE	NE
Benzo(k)fluoranthene	mg/kg	**4.9**	**0.098**	**5.1**	9 (ing)	250	1,700 (ing)	1.7
Chrysene	mg/kg	**11**	**0.26**	**7.4**	88 (ing)	800	17,000 (ing)	2.7
Dibenzo(a,h)anthracene	mg/kg	**0.95**	**0.039**	**0.83**	0.09 (ing)	7.6	17 (ing)	0.42
Fluoranthene	mg/kg	**22**	**0.57**	**16**	3,100 (ing)	21,000	82,000 (ing)	NE
Fluorene	mg/kg	**0.66**	ND	**0.6**	3,100 (ing)	2,800	82,000 (ing)	NE
Indeno(1,2,3-cd)pyrene	mg/kg	**6.4**	**0.13**	**4.9**	0.9 (ing)	69	170 (ing)	1.6
Naphthalene	mg/kg	**0.21**	ND	**0.38**	170 (inh)	18	1.8 (inh)	NE
Phenanthrene	mg/kg	**12**	**0.32**	**4.8**	NE	NE	NE	NE
Pyrene	mg/kg	**19**	**0.45**	**14**	2,300 (ing)	21,000	61,000 (ing)	NE
RCRA METALS								
Arsenic	mg/kg	**8.4**	**11**	**9.5**	750 (inh)	NE	61 (ing)	13
Barium	mg/kg	**110**	**120**	**1,700**	5,500 (ing)	NE	14,000 (ing)	110
Cadmium	mg/kg	**0.77**	**0.78**	**0.93**	78 (ing)	NE	200 (ing)	0.6
Chromium	mg/kg	**7.7**	**28**	**14**	230 (ing)	NE	690 (inh)	16.2
Lead	mg/kg	**84**	**22**	**400**	400 (ing)	NE	400 (ing)	36
Mercury	mg/kg	**0.04**	ND	**0.21**	10 (inh)	NE	61 (ing)	0.06
Selenium	mg/kg	**1.3**	ND	**1.3**	390 (ing)	NE	1,000 (ing)	0.48
Silver	mg/kg	ND	ND	ND	390 (ing)	NE	1,000 (ing)	0.55

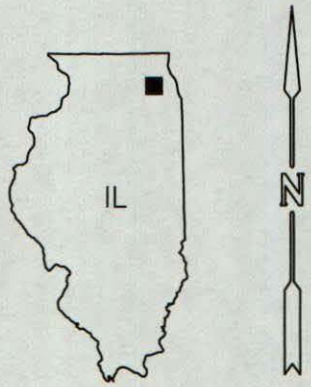
Notes:
(1): The most stringent soil remediation objectives of the ingestion (ing) and inhalation (inh) routes for residential properties, 35 IAC 742 Appendix BTable A
(2): The soil remediation objective for the Soil Component of the Groundwater Ingestion Exposure Route for Class II gro undwater, 35 IAC 742 Appendix BTable A
(3): The most stringent construction worker objective for the ingestion (ing) or inhalation (inh) routes, 35 IAC 742 Ap pendix BTable B
(4): The background soil concentration in Counties Within Metropolitan Statistical Areas, IEPA Publication, Bckground Carcinogenic PAH
(5): The concentrations of inorganic chemicals in background soil for Counties Within Metropolitan Statistical Areas, 35 IAC 742 Appendix A, Table G
ing ingestion
inh inhalation
mg/kg Milligram per kilogram
ND Non-detect at laboratory detection limit
NE Not established by the Illinois Environmental Protection Agency
BOLD Laboratory Analytical Detection
BOLD + HIGHLIGHT Laboratory Analytical Detection that exceeds TACO Tier 1 Residential Remedation Objectives.

Prepared by: DEN
Checked by: EJW

Figures

SOURCE: USGS Highland Park, Illinois Quadrangle, 1993





KEY

= Fort Sheridan Boundary

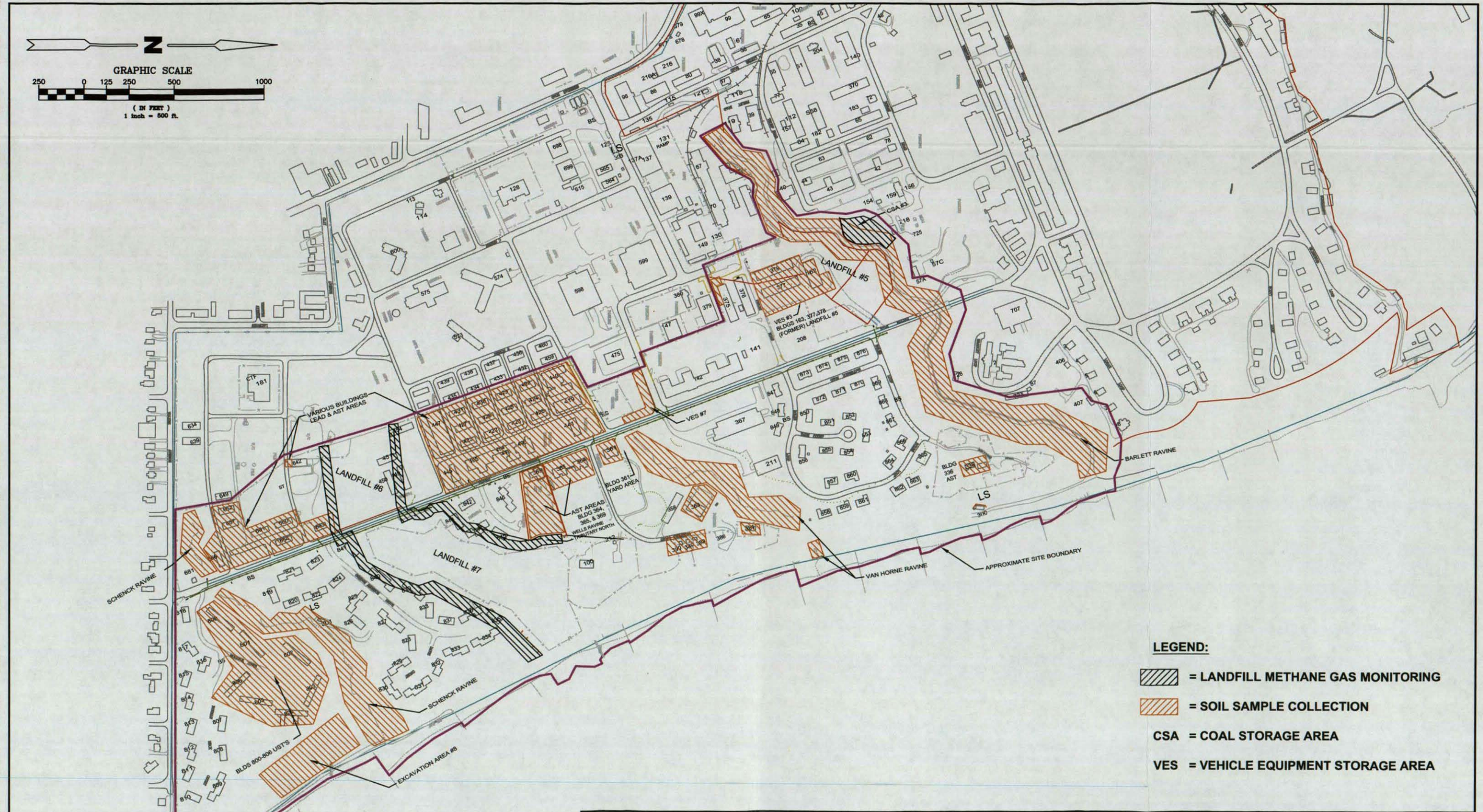
= Navy Property Boundary

MACTEC
Engineering and Consulting, Inc.

Site Location Map
Navy Property At Fort Sheridan
Highland Park, IL

FIGURE
1

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.03	AEH	09/14/05	



LEGEND:

= LANDFILL METHANE GAS MONITORING

= SOIL SAMPLE COLLECTION

CSA = COAL STORAGE AREA

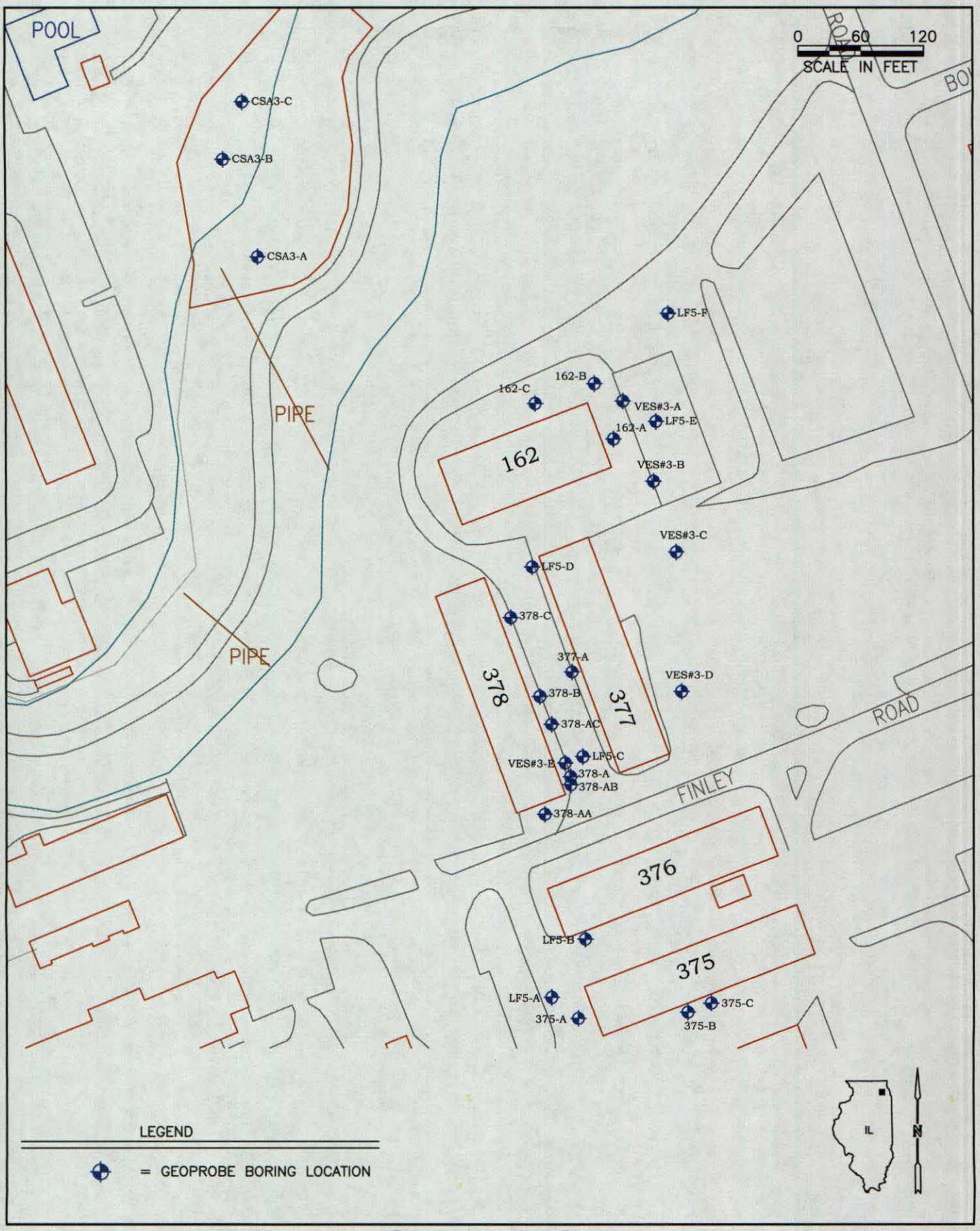
VES = VEHICLE EQUIPMENT STORAGE AREA

MACTEC
Engineering and Consulting, Inc.

PHASE II ESA INVESIGATION AREAS
Navy Property at Fort Sheridan
Highland Park, IL

FIGURE
2

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3202050441.03	AEH	09/14/05	

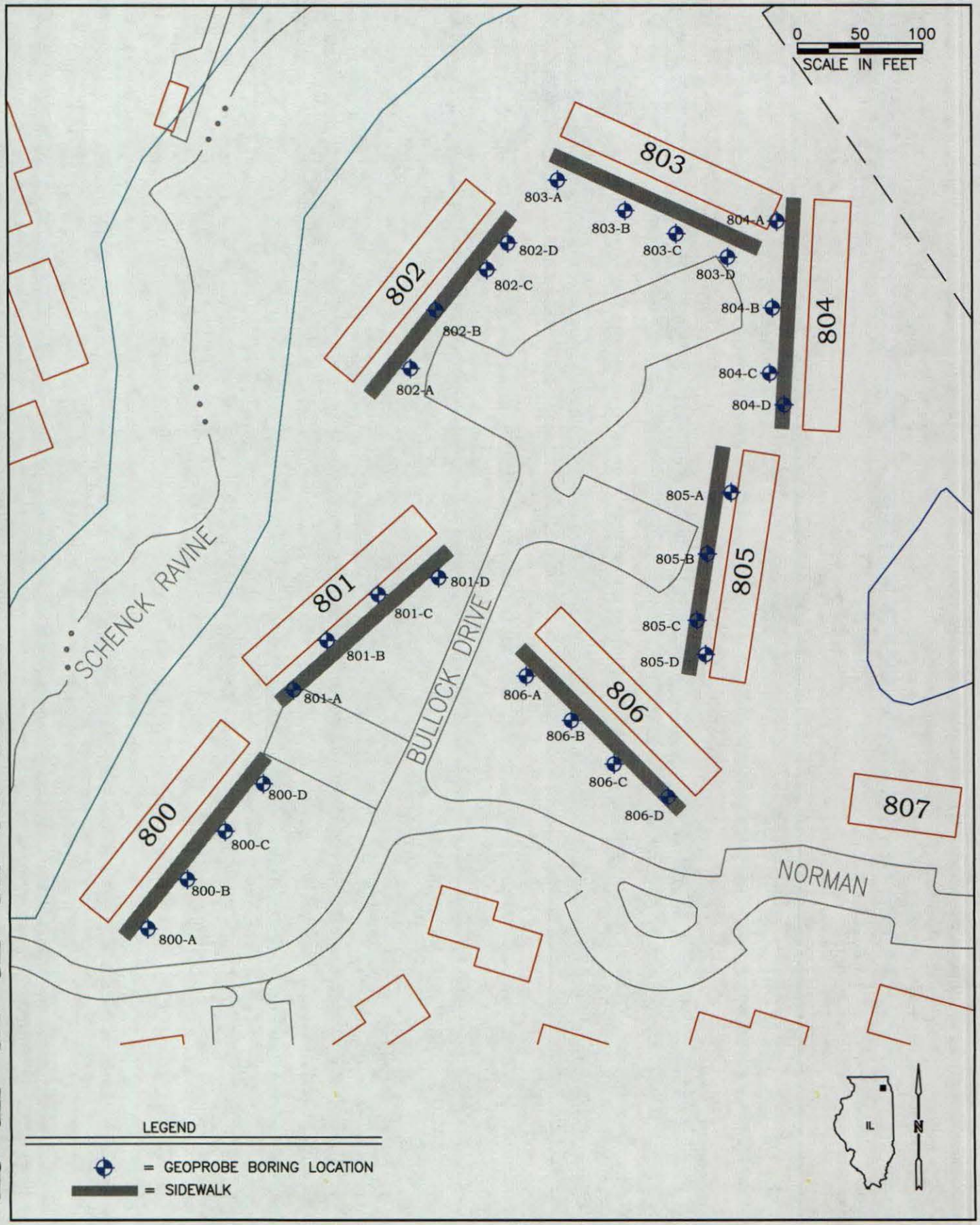


MACTEC
Engineering and Consulting, Inc.

Boring Location Plan
VES#3, Landfill #5, Coal Storage Area #3, & Bldgs 162, 375, 377, & 378
Navy Property At Fort Sheridan
Highland Park, Il.

FIGURE 3

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.03	AEH	08/22/05	

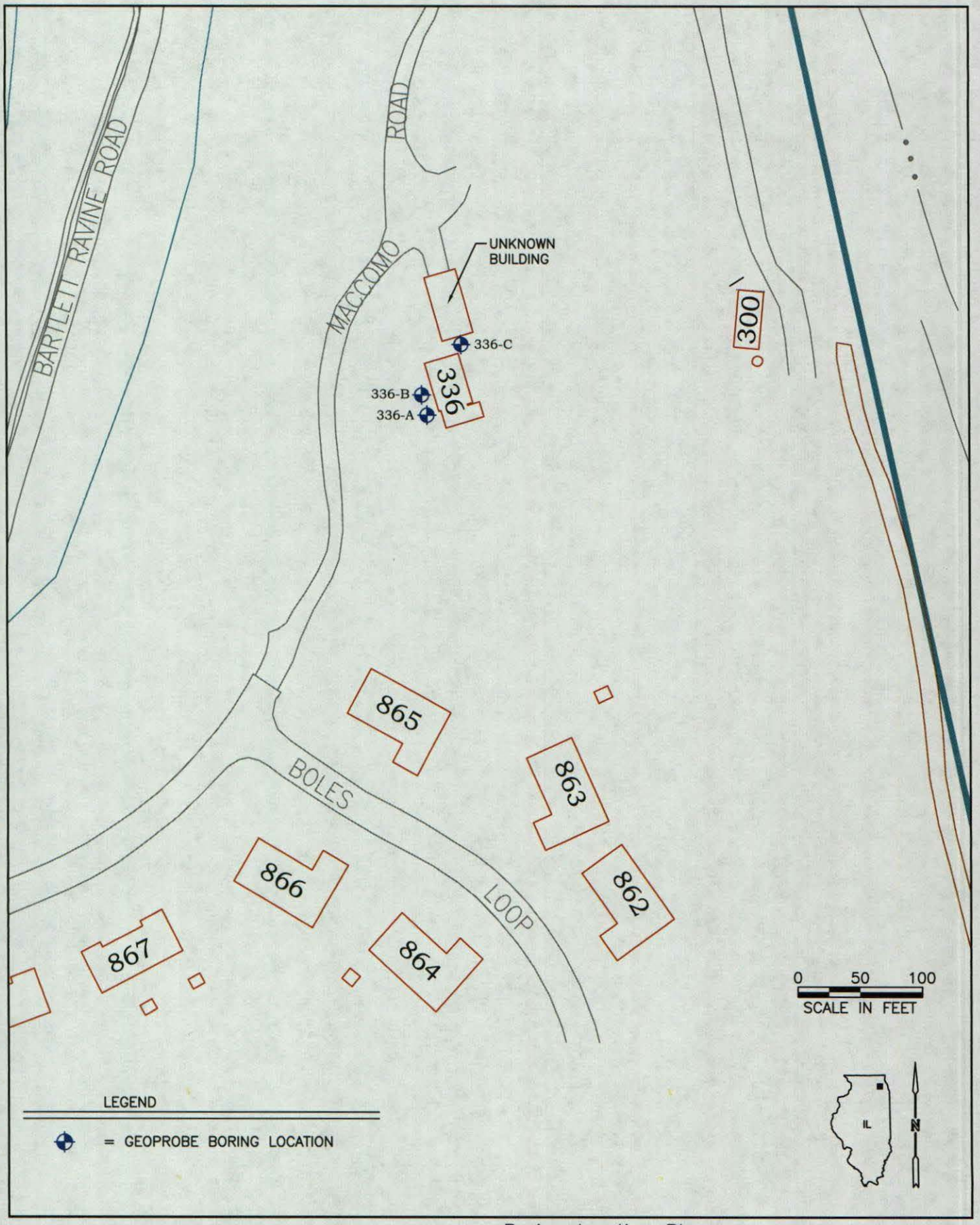


MACTEC
Engineering and Consulting, Inc.

Boring Location Plan
Buildings 800 – 806
Navy Property At Fort Sheridan
Highland Park, Il.

FIGURE
4

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.03	AEH	08/22/05	



MACTEC
Engineering and Consulting, Inc.

Boring location Plan
Building 336 & Unknown Building
Navy Property At Fort Sheridan
Highland Park, Il.

FIGURE
5

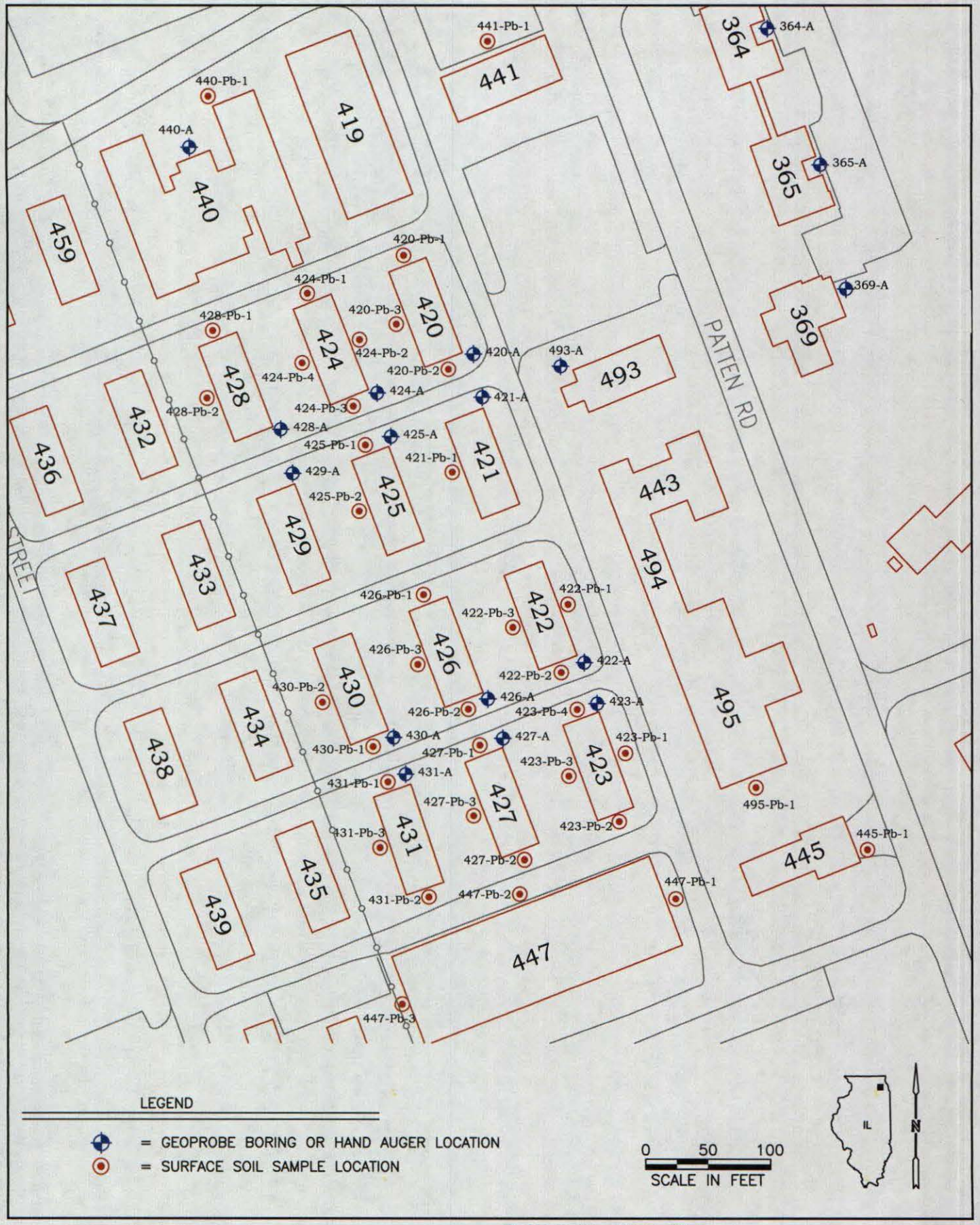
DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.03	AEH	08/22/05	

MACTEC
Engineering and Consulting, Inc.

Boring Location Plan
VES#7 & Building 361
Navy Property At Fort Sheridan
Highland Park, Il.

FIGURE
6

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.03	AEH	08/22/05	

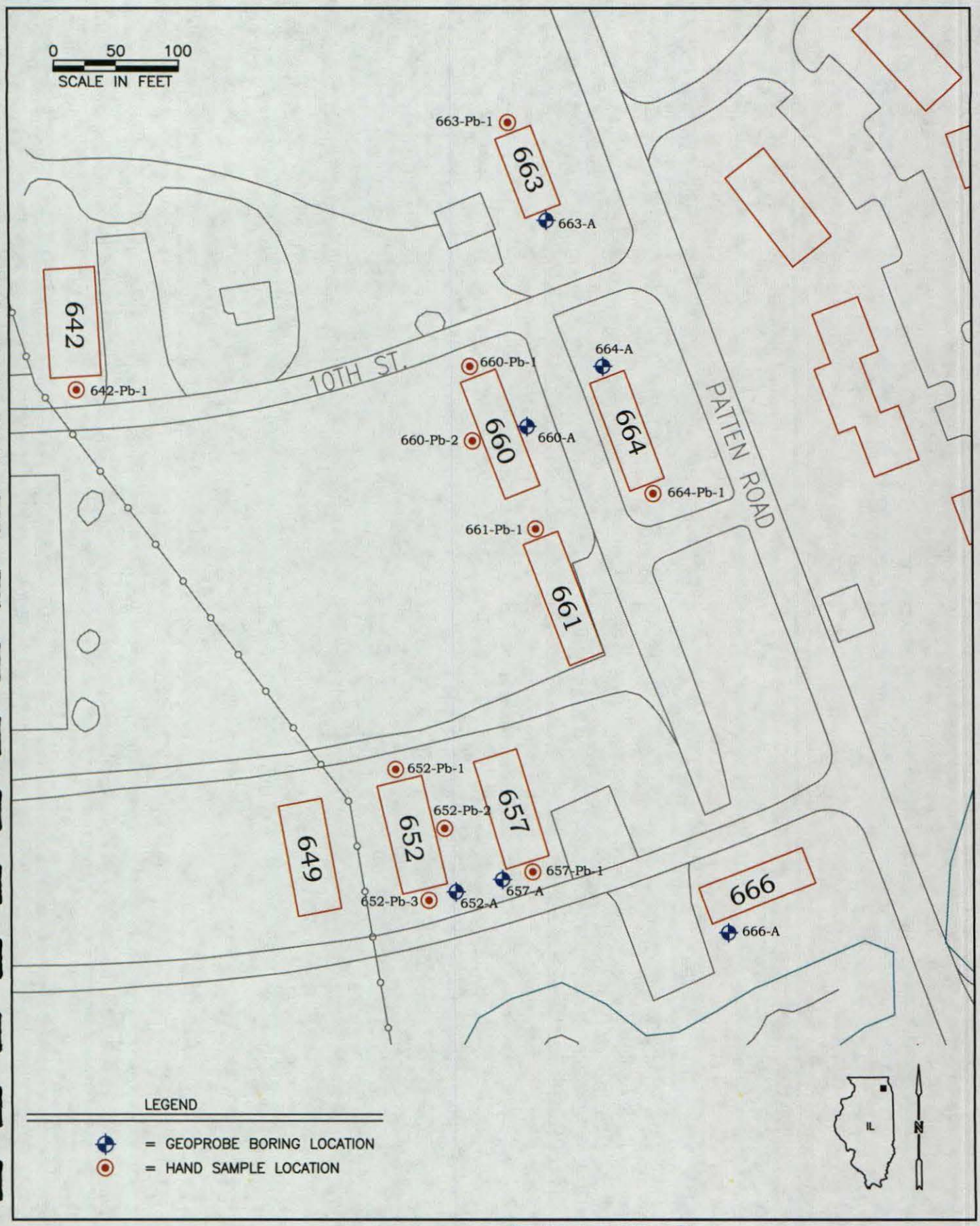


MACTEC
Engineering and Consulting, Inc.

Boring Location Plan
Barracks Area & Buildings 364, 365, & 369
Navy Property At Fort Sheridan
Highland Park, Il.

FIGURE
7

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.03	AEH	08/22/05	

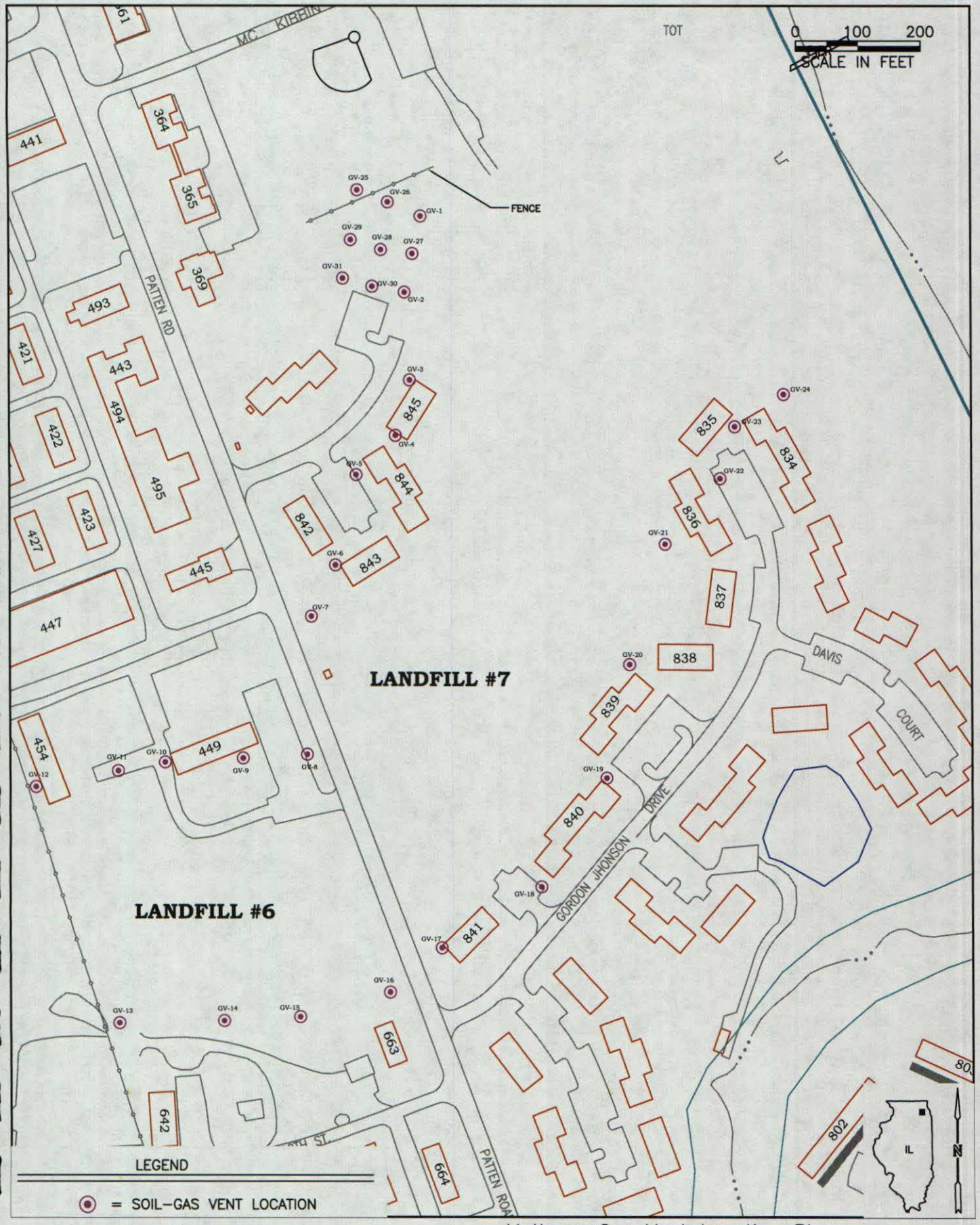


MACTEC
Engineering and Consulting, Inc.

Boring Location Plan
Buildings 642, 652, 657, 660, 664, & 666
Navy Property At Fort Sheridan
Highland Park, Il.

FIGURE
8

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.03	AEH	08/22/05	

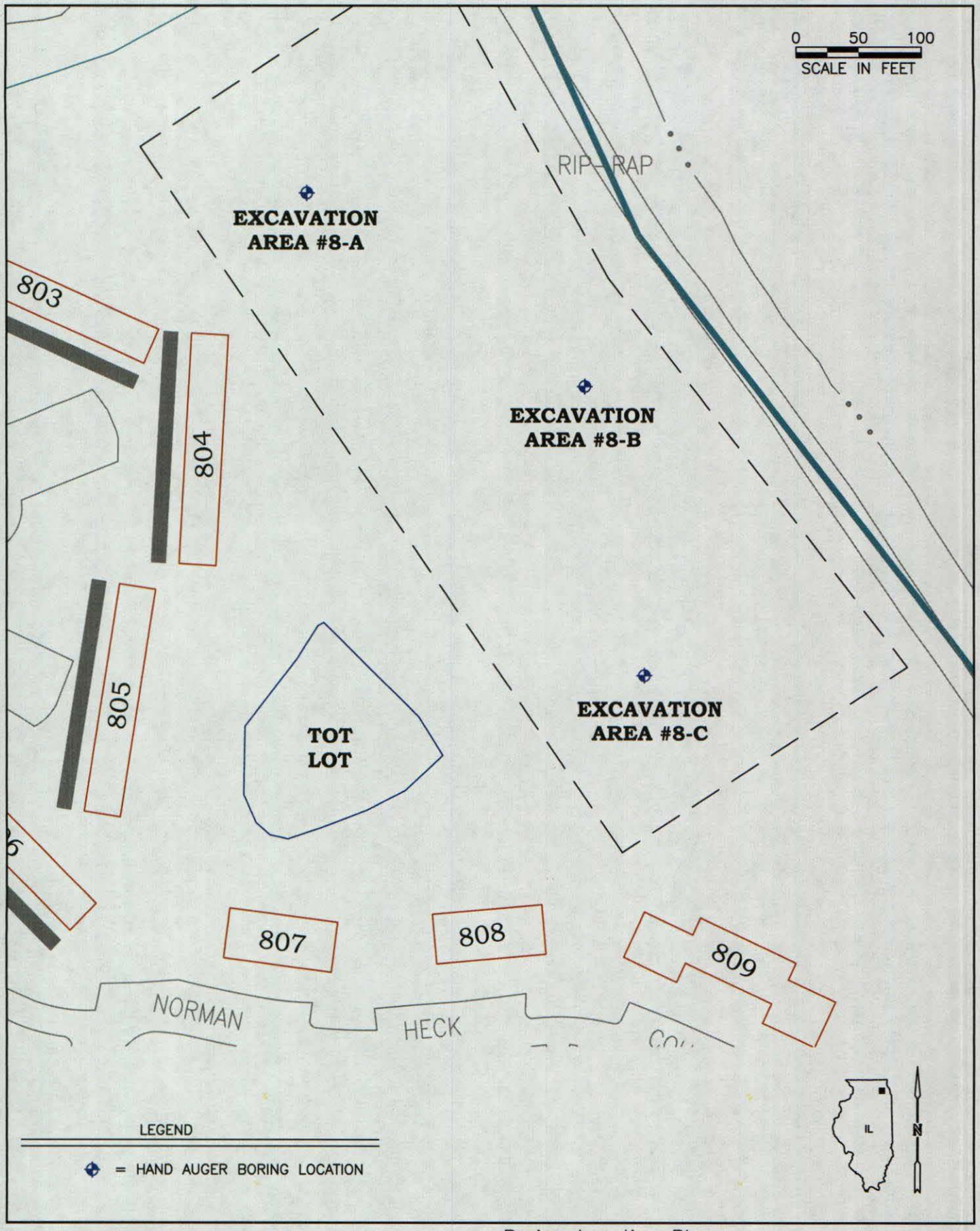


MACTEC
Engineering and Consulting, Inc.

Methane Gas Vent Location Plan
Landfill #6 & #7
Navy Property At Fort Sheridan
Highland Park, IL

FIGURE
9

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.03	AEH	08/22/05	

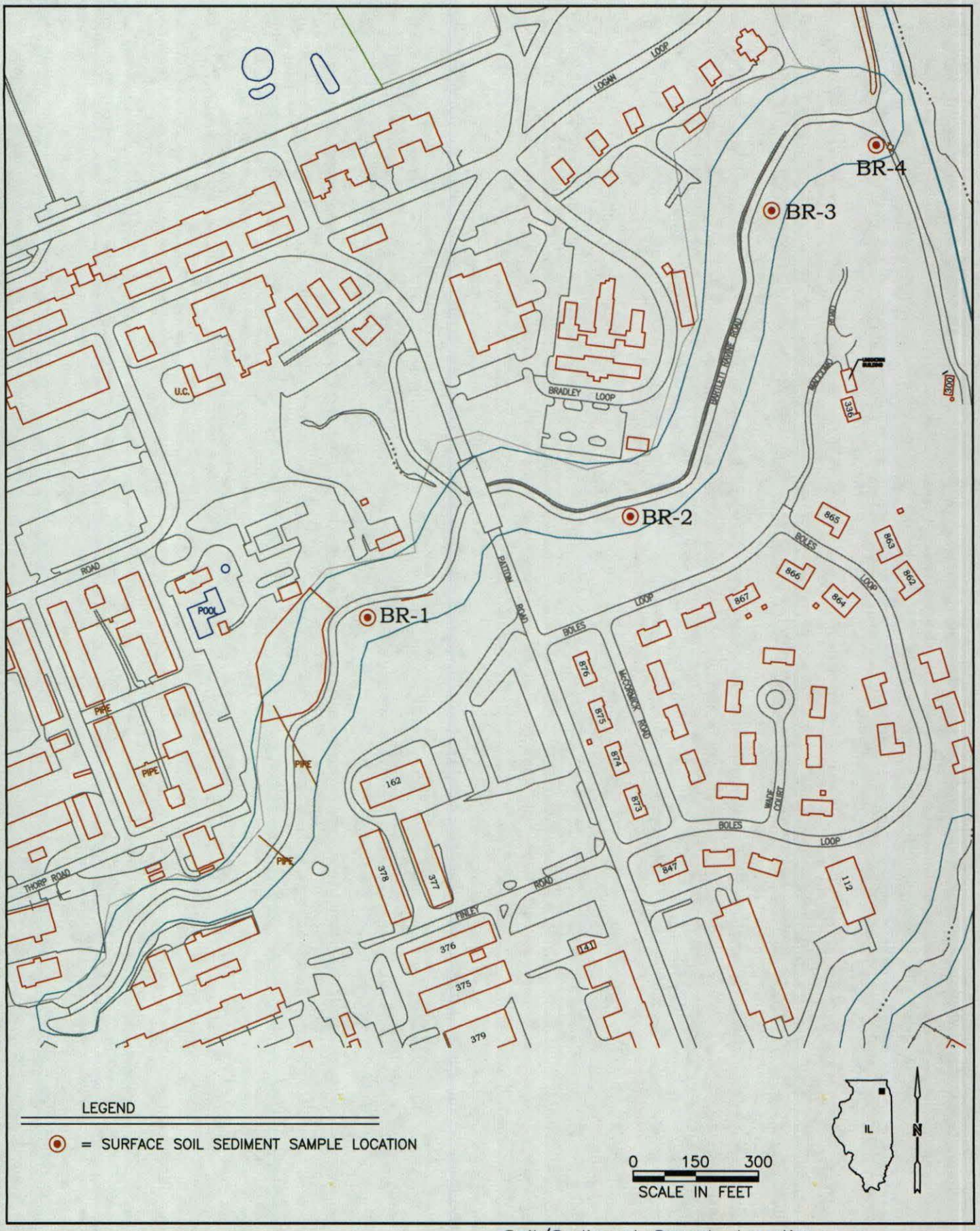


MACTEC
Engineering and Consulting, Inc.

Boring Location Plan
Excavation Area #8
Navy Property At Fort Sheridan
Highland Park, IL

FIGURE
10

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.03	AEH	08/22/05	

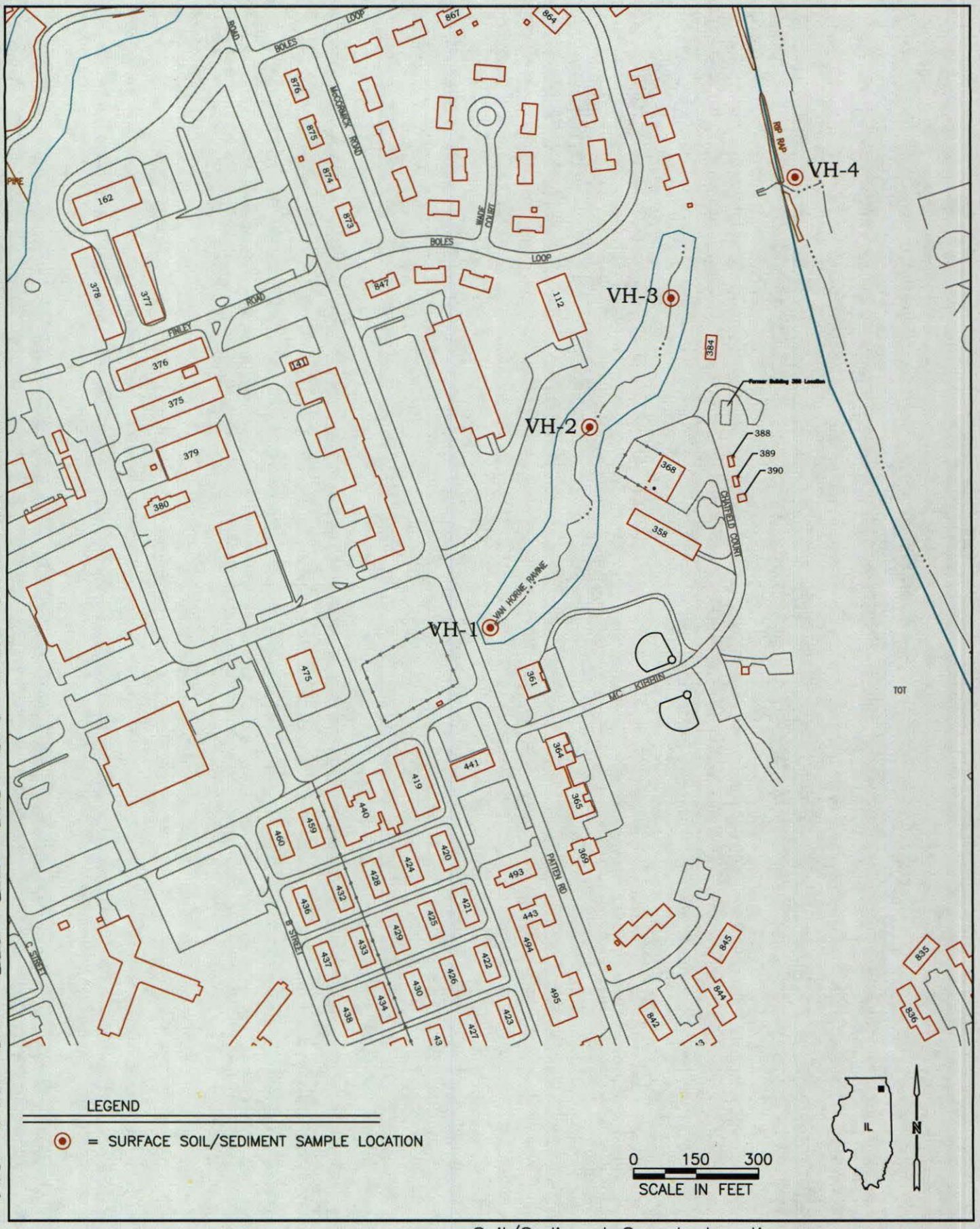


MACTEC
Engineering and Consulting, Inc.

Soil/Sediment Sample Locations
Bartlett Ravine
Navy Property At Fort Sheridan
Highland Park, Il.

FIGURE 11

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.03	AEH	08/22/05	

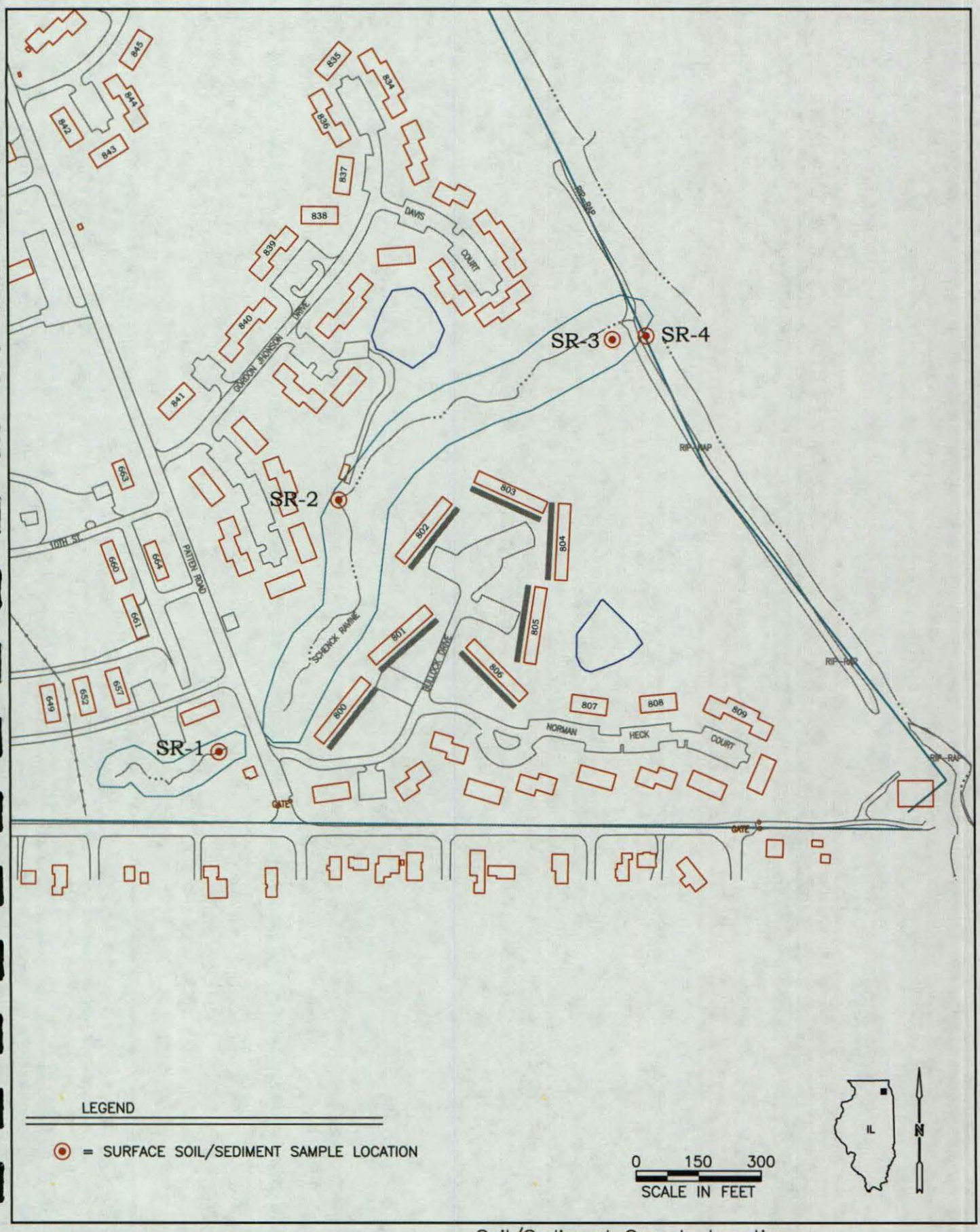


MACTEC
Engineering and Consulting, Inc.

Soil/Sediment Sample Locations
Van Horne Ravine
Navy Property At Fort Sheridan
Highland Park, Il.

FIGURE
12

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.03	AEH	08/22/05	

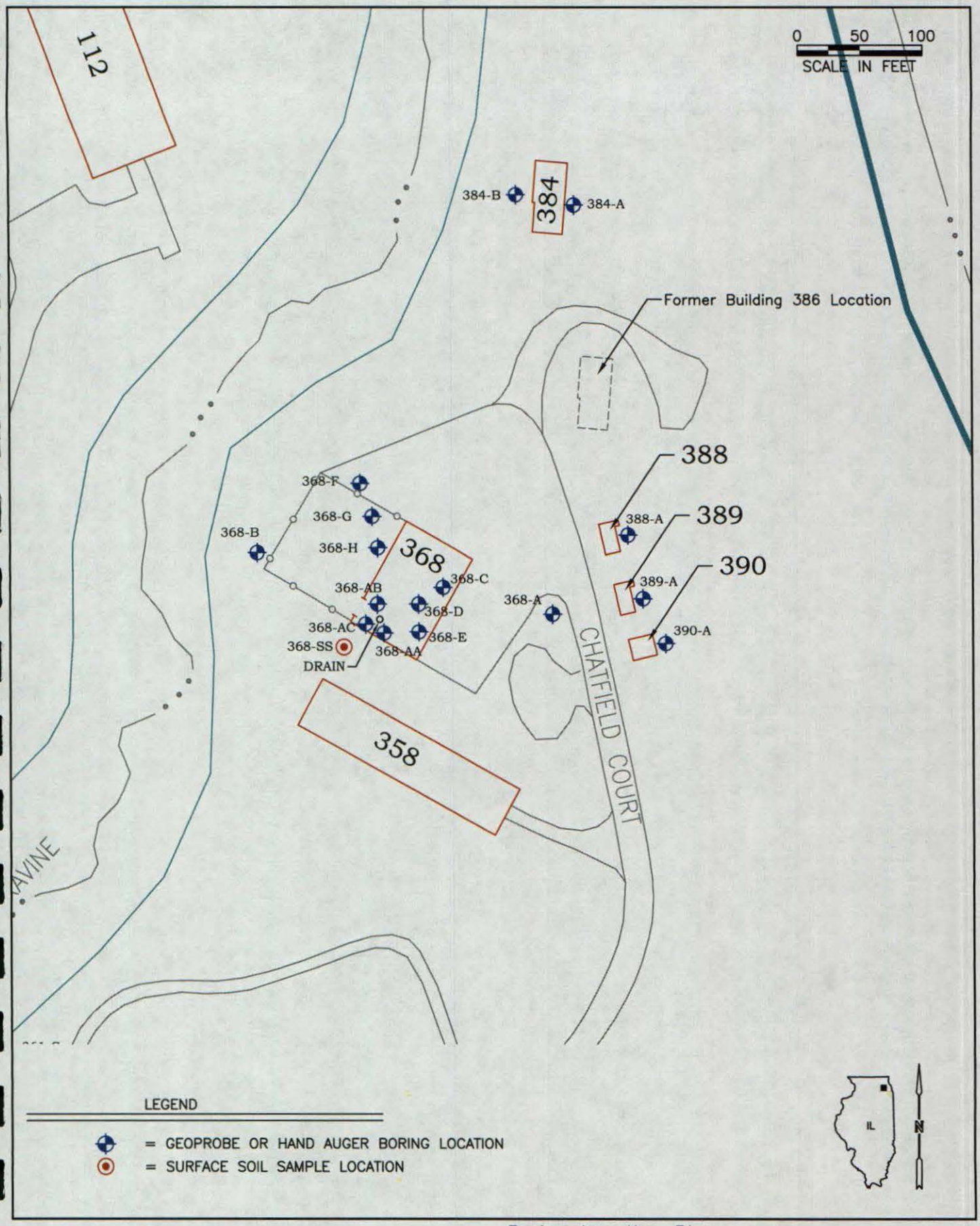


MACTEC
Engineering and Consulting, Inc.

Soil/Sediment Sample Location
Schenck Ravine
Navy Property At Fort Sheridan
Highland Park, Il.

FIGURE
13

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.03	AEH	08/22/05	

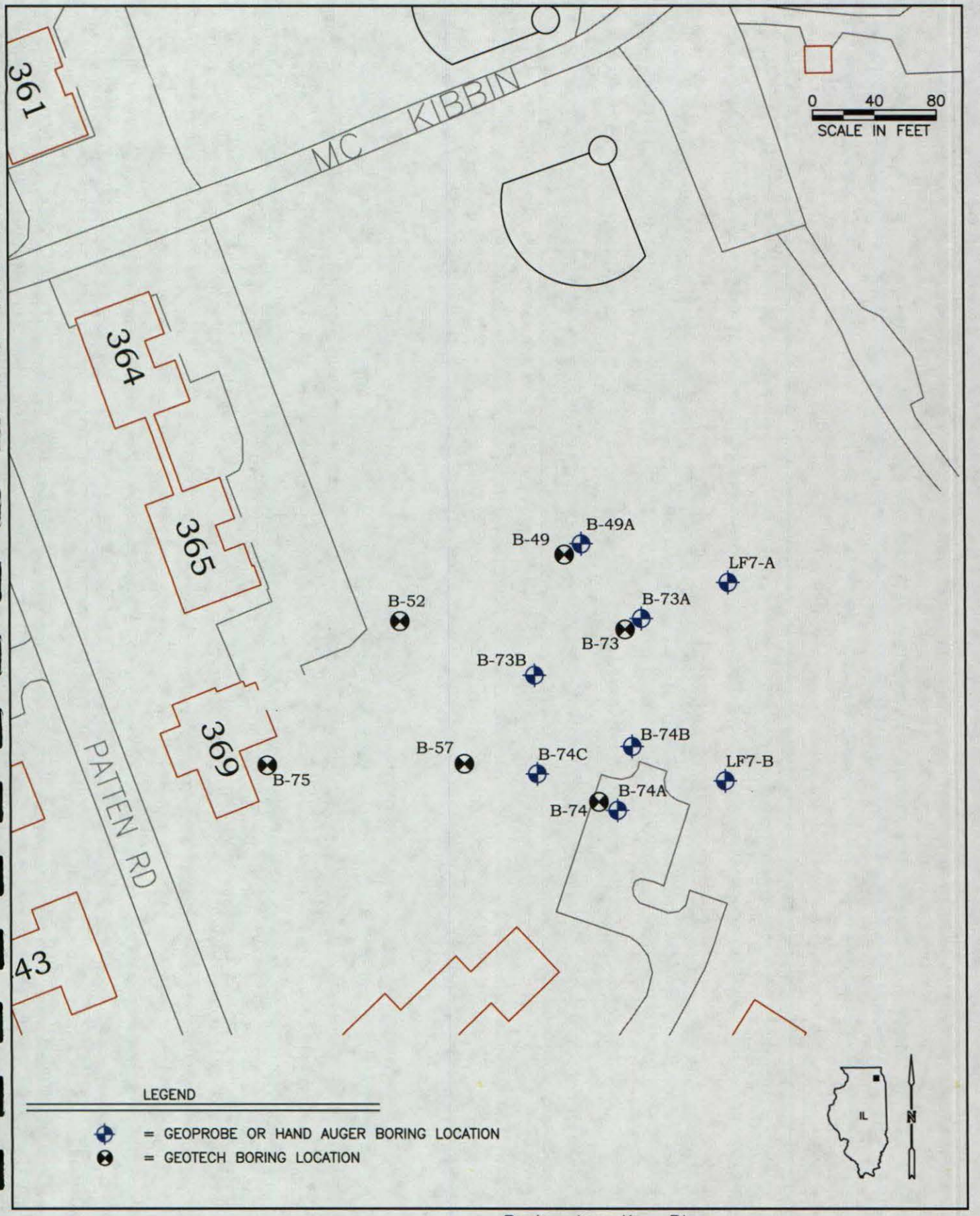


MACTEC
Engineering and Consulting, Inc.

Boring Location Plan
Buildings 368, 364, & 388 – 390
Navy Property At Fort Sheridan
Highland Park, Il.

FIGURE
14

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.03	AEH	08/22/05	



MACTEC
Engineering and Consulting, Inc.

Boring Location Plan
Wells Ravine Tributary North
Navy Property At Fort Sheridan
Highland Park, Il.

FIGURE
15

DRAWN	PROJECT NUMBER	APPROVED	DATE	REVISED DATE
GAP	3205050441.03	AEH	08/22/05	

Appendix A

Representative Photographs

Site Photographs

Site Name:	Fort Sheridan - Highland Park, Illinois	**Project No:**	3205050441
		By:	MACTEC Engineering and Consulting, Inc.
		Date:	July 13, 2005

Photo No. 1: Soil boring 361D in the Photo Shop/Yard Area

Photo No. 2: Soil boring 666A at AST near Building 666

Site Photographs

Site Name:	Fort Sheridan - Highland Park, Illinois	**Project No:**	3205050441
		By:	MACTEC Engineering and Consulting, Inc.
		Date:	July 13 and 14, 2005

Photo No. 3: Soil boring location 806B

Photo No. 4: Soil boring 368A at Building 368

Site Photographs

Site Name:	Fort Sheridan - Highland Park, Illinois	**Project No:**	3205050441
		By:	MACTEC Engineering and Consulting, Inc.
		Date:	July 14, 2005

Photo No. 5: Soil boring 368D adjacent to lifts inside Building 368

Photo No. 6: Building 368 Lifts

Site Photographs

Site Name:	Fort Sheridan - Highland Park, Illinois	**Project No:**	3205050441
		By:	MACTEC Engineering and Consulting, Inc.
		Date:	July 14 and 15, 2005

Photo No. 7: Soil boring 336A near AST at Building 336

Photo No. 8: Aboveground storage tank, boring location 336C marked by white flag

Site Photographs

Site Name:	Fort Sheridan - Highland Park, Illinois	**Project No:**	3205050441
		By:	MACTEC Engineering and Consulting, Inc.
		Date:	July 14, 2005

Photo No. 9: Soil boring VES#3E at Vehicle Equipment Storage Area 3

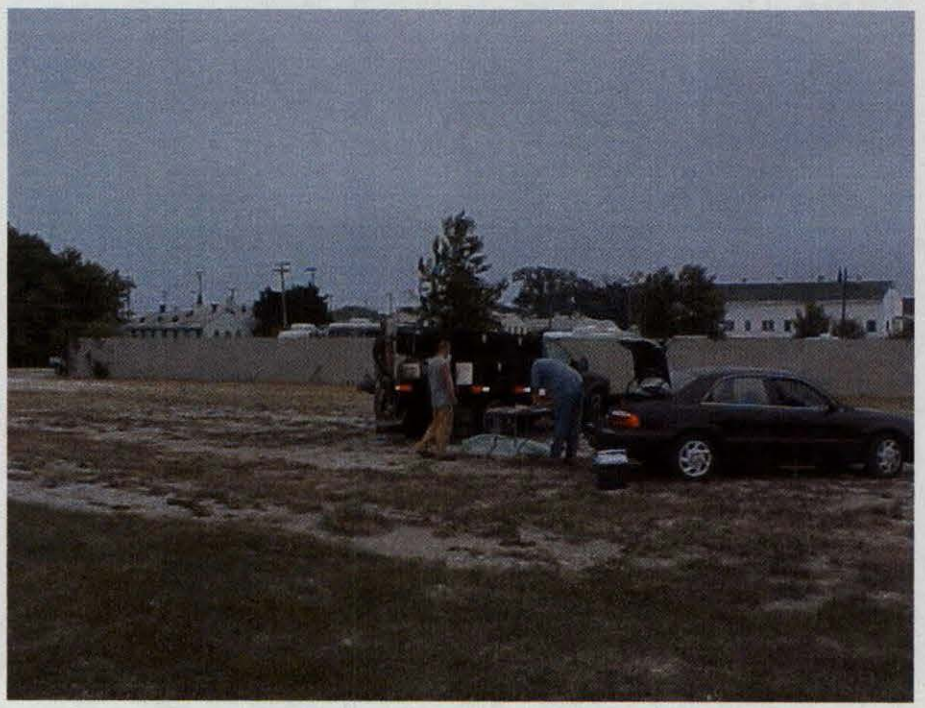


Photo No. 10: Soil boring VES#7A at Vehicle Equipment Storage Area 7

Site Photographs

Site Name:	Fort Sheridan - Highland Park, Illinois	**Project No:**	3205050441
		By:	MACTEC Engineering and Consulting, Inc.
		Date:	July 14, 2005

Photo No. 11: Soil boring VES#7C at Vehicle and Equipment Storage Area 7

Photo No. 12: Building 375 AST, boring location 375A

Site Photographs

Site Name:	Fort Sheridan - Highland Park, Illinois	**Project No:**	3205050441
		By:	MACTEC Engineering and Consulting, Inc.
		Date:	July 15, 2005

Photo No. 13: Building 375 Containment and AST

Photo No. 14: Building 364 ASTs, boring location 364A

Site Photographs

Site Name:	Fort Sheridan - Highland Park, Illinois	**Project No:**	3205050441
		By:	MACTEC Engineering and Consulting, Inc.
		Date:	July 14, 2005 and August 29, 2005

Photo No. 15: AST at Building 369

Photo No. 16: Vehicle wash bay at Building 368 and boring locations

Site Photographs

Site Name:	Fort Sheridan - Highland Park, Illinois	**Project No:**	3205050441
		By:	MACTEC Engineering and Consulting, Inc.
		Date:	August 30, 2005

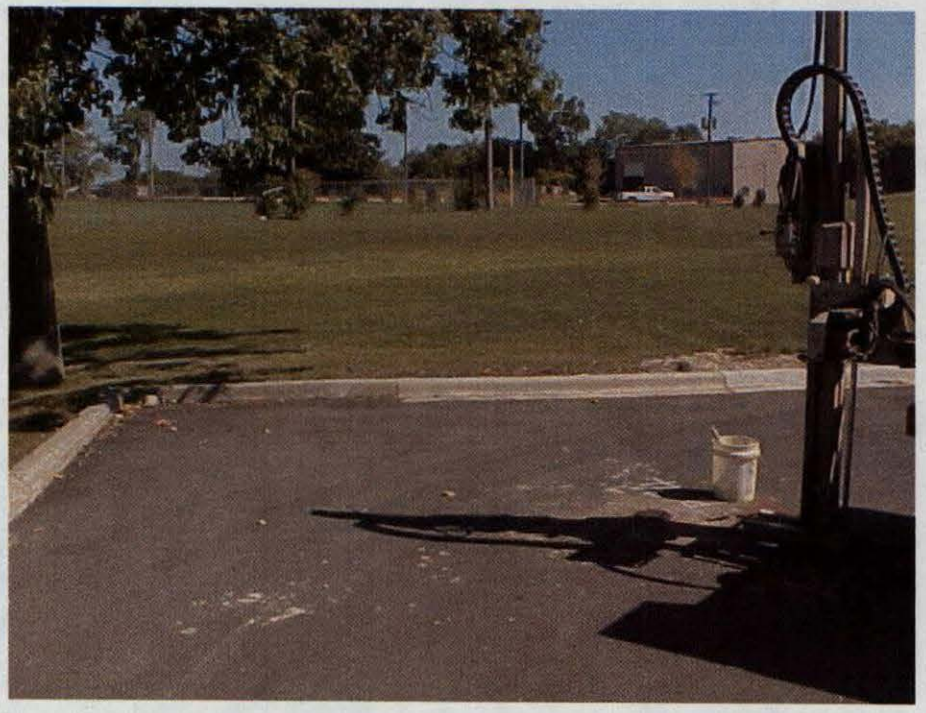


Photo No. 17: Boring location B-74A, Wells Ravine Tributary

Photo No. 18: Boring location B-73A, Wells Ravine Tributary

Site Photographs

Site Name:	Fort Sheridan - Highland Park, Illinois	**Project No:**	3205050441
		By:	MACTEC Engineering and Consulting, Inc.
		Date:	August 30, 2005

Photo No. 19: Boring location B-74C, Wells Ravine Tributary

Photo No. 20: Landfill 5 boring location LF-5A

Site Photographs

Site Name:	Fort Sheridan - Highland Park, Illinois	**Project No:**	3205050441
		By:	MACTEC Engineering and Consulting, Inc.
		Date:	July 14 and 15, 2005

Photo No. 21: Landfill 5, looking west

Photo No. 22: Landfill 5, looking north

Site Photographs

Site Name:	Fort Sheridan - Highland Park, Illinois	**Project No:**	3205050441
		By:	MACTEC Engineering and Consulting, Inc.
		Date:	August 30 and 31, 2005

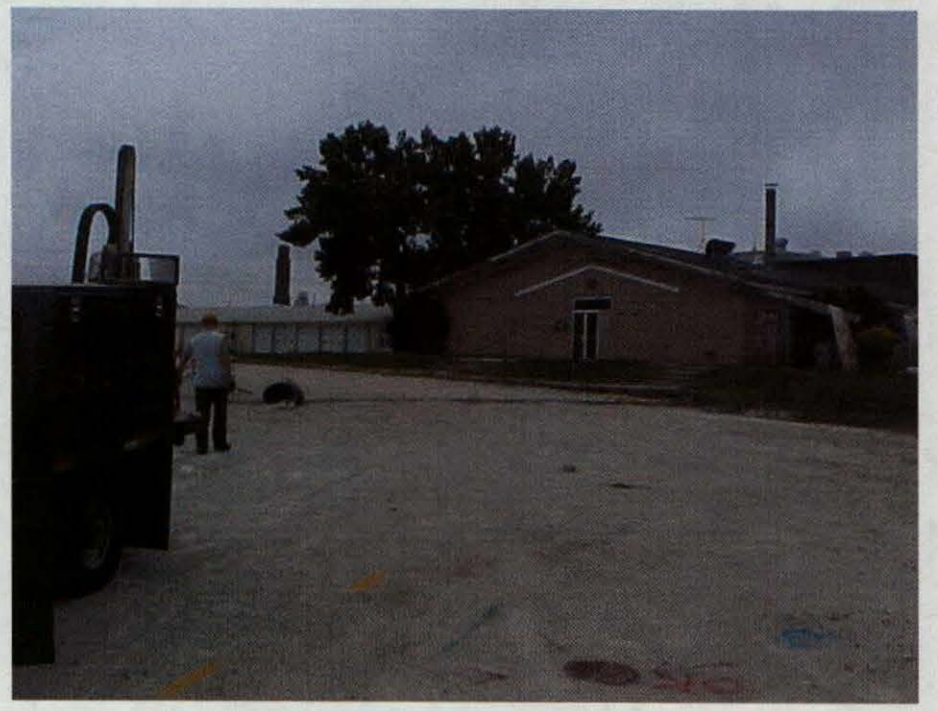


Photo No. 23: Landfill 5, boring location LF-5F

Photo No. 24: Hand auger boring Coal Store3-C, Coal Storage Area 3

Site Photographs

Site Name:	Fort Sheridan - Highland Park, Illinois	**Project No:**	3205050441
		By:	MACTEC Engineering and Consulting, Inc.
		Date:	August 31, 2005 and September 5, 2005

Photo No. 25: Hand auger boring Ex Area 8-C, Excavation Area 8

Photo No. 26: Landfill 7, looking east

Site Photographs

Site Name:	Fort Sheridan - Highland Park, Illinois	**Project No:**	3205050441
		By:	MACTEC Engineering and Consulting, Inc.
		Date:	September 5, 2005

Photo No. 27: Landfill 7, looking southeast

Photo No. 28: Typical installed, flush mount methane well at Landfill 7

Appendix B

Boring Logs

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	162-A		Highland Park, IL
DATE:	8/30/2005		Building 162
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	TOTAL DEPTH: 12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown silt with trace gravel	
				dry	FILL: Brown to tan silty sand witih trace gravel	
1			292*			
2				dry	FILL: Brown to orangish brown sandy silt with trace gravel	
			96.5	to		
3				sl. moist		
4				sl. moist	FILL: Brown to dark brown silty clay with organics and trace gravel	
			23.1			
5						
6				dry	FILL: Brown to dark brown silty clay with trace gravel	
			30.3			
7						
8					Brown sand with roots	
				dry	Brown and gray silty clay with trace grave	
9						
10			2.3			
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 0.5 - 2.0' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	162-B		Highland Park, IL
DATE:	8/30/2005		Building 162
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					TOPSOIL: Black silt with little gravel	
1			90.1	dry	FILL: Brown to dark brown sandy clay with silt and gravel and trace organics	
2						
3			65.2	sl. moist	FILL: Brown silty clay with trace gravel	
4						
5			25*	moist	FILL: Brown to dark brown silty clay with gravel	Sample due to depth
6						
7						
8			12.4			
9						
10			11.5	sl. moist	Brown to gray silty clay with trace gravel	
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 5.0 - 7.0' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	162-C		Highland Park, IL
DATE:	8/30/2005		Building 162
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown silt with gravelly clay	
1					FILL: White gravel with sand	
				dry	FILL: Brown silty sand	
2				dry	FILL: Brown silty clay with trace sand and gravel	
3			22.5			
4						
5						
6				moist	FILL: Dark gray to dark brown to black silty clay with gravel and ash	
7			79.1*			
8				moist	FILL: Greenish gray to orangish brown silty clay	
9			10.2			
10				sl. moist	Brown and gray silty clay with trace grave	
11			11.1			
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 6.0 - 8.0' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	336-A		Highland Park, IL
DATE:	7/14/2005		Building 336 - Heating oil AST
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown silt with rootlets	
1			0.0*	sl. moist	Brown silty clay with little gravel and rootlets	
2						
3				moist	Brown to grayish brown clay with trace gravel	
4						
5					End of soil boring at 4 feet below ground surface (bgs)	
6					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	336-B		Highland Park, IL
DATE:	7/14/2005		Building 336 - Heating oil AST
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown silt with little gravel	
1			0.0*	sl. moist to dry	Brown to dark brown silty clay with trace gravel	
2						
3						
4						
5					End of soil boring at 4 feet below ground surface (bgs)	
6					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	336-C		Highland Park, IL
DATE:	7/14/2005		Building 336 - Heating oil AST
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown silt with little sand and rootlets	
1			0.0*	dry	Brown to orangish brown sandy silt with trace gravel	
2						
3				sl. moist	Brown to gray silty clay with little sand and trace grave	
4						
5					End of soil boring at 4 feet below ground surface (bgs)	
6					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	361-A		Highland Park, IL
DATE:	7/12/2005		West of Building 361
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Light brown to brown sandy silt with little gravel	2.5' / 4.0' Soil Recovery
1				dry	FILL: Very dark brown to blackish brown ash and debris	
2			59.1*			
3				sl. moist	Brown to dark brown silty clay	
4						
5			11.9	dry	Brown and gray silty clay	
6						
7						
8						
9					End of soil boring at 8 feet below ground surface (bgs)	
10					* Soil sample selected from 2 - 3' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	361-B		Highland Park, IL
DATE:	7/12/2005		North of Building 361
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown sandy silt with little gravel and rootlets	2.5' / 4.0' Soil Recovery
1						
2						
3			0.5*			
4				dry	Tan to brown silt with little sand and gravel	
5				dry	Brown to orange silty clay with little grave	
6			0.0	to sl. moist		
7						
8						
9					End of soil boring at 8 feet below ground surface (bgs)	
10					* Soil sample selected from 3.5 - 4' bgs for laboratory analysis	
11						
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23						
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25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	361-C		Highland Park, IL
DATE:	7/12/2005		Northeast of Building 361
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown sandy silt with little gravel and rootlets	3.5' / 4.0' Soil Recovery
1						
2			--	sl. moist	Brown to light brown silty clay with trace grave	No PID screening of boring due to rain
3						
4				sl. moist	Brown and gray silty clay with trace grave	
5						
6			--			
7						
8						
9					End of soil boring at 8 feet below ground surface (bgs)	
10					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
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23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	361-D		Highland Park, IL
DATE:	7/12/2005		East of Building 361
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					Asphalt and gravel base	
1				sl. moist	FILL: White to gray gravelly clay	
2				moist to wet	FILL: Dark gray to blackish gray silty clay with trace gravel	Soil staining and strong petroleum odor observed
3			301*			
4				moist	Brown silty clay with trace gravel	Petroleum odor observed
5						
6			10.7			
7						
8						
9					End of soil boring at 8 feet below ground surface (bgs)	
10					* Soil sample selected from 3 - 4' bgs for laboratory analysis	
11					Backfilled boring with bentonite chips, cuttings remain on-site	
12						
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23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	364-A		Highland Park, Illinois
DATE:	7/15/2005		Building 364 - Heating Oil AST
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					ASPHALT	
				dry	Brown to white gravelly clay	
1				moist	Brown to greenish brown silty clay	2.5' Soil Recovery
			55			
2						Petroleum odor at 2.0' bgs
3			250*			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 2.0 - 4.0' bgs for laboratory analysis	
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24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	365-A		Highland Park, Illinois
DATE:	7/15/2005		Building 365 - Heating Oil AST
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					ASPHALT	3.0' Soil Recovery
				sl. moist	Brown silty gravel	
1			27.7*	sl. moist	Brown silty clay with trace gravel	
2						
3			3.0	v. moist	Greenish brown to black silty clay	
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1.0 - 2.0' bgs for laboratory analysis	
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24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	368-A		Highland Park, IL
DATE:	7/14/2005		Building 368
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	10'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown silt with trace gravel and rootlets	
				dry	Brown to dark brown silt with little clay and sand	
1			0.0			
2						
				dry	Tan to grayish brown silty clay	
3						
4						
5						
6			0.0	sl. moist to moist	Brown to gray silty lcay with trace gravel and sanc	
7						1" wet sand seam encountered at 7' bgs
8			0.0*			
9						
10						
11					End of soil boring at 10 feet below ground surface (bgs)	
12					* Soil sample selected from 9' bgs for laboratory analysis	
13						
14						
15						
16						
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18						
19						
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21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	368-B		Highland Park, IL
DATE:	7/14/2005		Building 368
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown clayey silt with trace gravel and rootlets	
1			1.5*			
2				sl. moist	FILL: Brown and gray silty clay with little gravel and wood pieces	
3			0.0			
4						
5				sl. moist to moist	Brown to greenish brown silty clay with trace gravel	
6			0.0			
7						
8						
9					End of soil boring at 8 feet below ground surface (bgs)	
10					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
11						
12						
13						
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21						
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23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	368-C		Highland Park, IL
DATE:	7/14/2005		Building 368
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					CONCRETE	
1					FILL: Black to brown sandy gravel	2.5' / 4.0' recovery
2			25.8*	sl. moist to moist	FILL: Dark gray to dark brown silty clay with little gravel and trace wood pieces	
3						
4						
5				dry to sl. moist	Brown and gray silty clay with trace grave	
6			5.8			
7						
8						
9					End of soil boring at 8 feet below ground surface (bgs)	
10					* Soil sample selected from 2 - 4' bgs for laboratory analysis	
11						
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22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	368-D		Highland Park, IL
DATE:	7/14/2005		Building 368
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					CONCRETE	
1				dry	FILL: White to brown gravel with silt	
				dry	FILL: Brown to orangish brown sandy silt with gravel	
2			76.1*	sl. moist to moist	FILL: Dark brown to dark greenish brown silty clay	Petroleum odor noted between 2 and 4 feet bgs
3						
4						
5				dry to sl. moist	Brown to gray silty clay with trace gravel	
6			12.2			
7						
8						
9					End of soil boring at 8 feet below ground surface (bgs)	
10					* Soil sample selected from 2 - 4' bgs for laboratory analysis	
11						
12						
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21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	368-E		Highland Park, IL
DATE:	7/14/2005		Building 368
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					CONCRETE	
				dry	FILL: Brown gravelly silt	
1				sl. moist	FILL: Brown to dark brown gravelly clay with little sand	
2			0.0*			
3				moist	Brown to orangish brown sand with gravel	
4						
5						
6			0.0			
7						
8						
9					End of soil boring at 8 feet below ground surface (bgs)	
10					* Soil sample selected from 2 - 4' bgs for laboratory analysis	
11						
12						
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22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	368-F		Highland Park, IL
DATE:	7/14/2005		Building 368
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown to dark brown silt with little sand, gravel, and rootlets	
1						
2			0.0*	dry	FILL: Brown to orangish brown silty clay with trace gravel and rootlets/wood pieces	
3						
4				sl. moist	FILL: Gray to greenish brown silty clay with trace rootlets	
5			0.0			
6				dry	Brown to gray silty clay with trace gravel	
7						
8						
9					End of soil boring at 8 feet below ground surface (bgs)	
10					* Soil sample selected from 1 - 3' bgs for laboratory analysis	
11						
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23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	368-G		Highland Park, IL
DATE:	7/14/2005		Building 368
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					Asphalt and gravel base	
1				sl. moist	Greenish brown to dark brown silty clay with trace gravel	
2			0.0*			
3						
4						
5			0.0			
6						
7						
8						
9					End of soil boring at 8 feet below ground surface (bgs)	
10					* Soil sample selected from 1 - 3' bgs for laboratory analysis	
11						
12						
13						
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16						
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23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	368-H		Highland Park, IL
DATE:	7/14/2005		Building 368 - Heating oil AST
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	Asphalt and gravel base	1.5' / 4.0' soil recovery
1				dry to sl. moist	Brown sand with little gravel	
2			0.0*			
3						
4						
5					End of soil boring at 4 feet below ground surface (bgs)	
6					* Soil sample selected from 1 - 4' bgs for laboratory analysis	
7						
8						
9						
10						
11						
12						
13						
14						
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16						
17						
18						
19						
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21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	368-AA		Highland Park, IL
DATE:	8/29/2005		Building 368 - Vehicle Wash Area
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					CONCRETE with gravel base	Concrete 2.5" Thick
				sl. moist	FILL: Brown silty clay with little gravel	
1						
			185*			
2				sl. moist	Dark brown to brown silty clay with wood pieces	Black staining at 1.5-2.5'
3						Petroleum odor at 1.5-4'
			74			
4						
5						
			37	sl. moist	Brownish green to grayish brown silty clay with trace grave	
6						
7						
8						
9						
10					End of soil boring at 8 feet below ground surface (bgs)	
11					* Soil sample selected from 1.5 - 2.5' bgs for laboratory analysis	
12						
13						
14						
15						
16						
17						
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22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	368-AB		Highland Park, IL
DATE:	8/29/2005		Building 368 - Vehicle Wash Area
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				sl. moist	CONCRETE and aggregate Dark brown to dark greenish brown silty clay with trace gravel	Concrete 4" Thick
1						
2			122			
3						
4			242*	sl. moist to moist	Brown to gray silty clay with trace gravel	Black staining at 4.5'
5						
6			56			
7						
8						
9						
10					End of soil boring at 8 feet below ground surface (bgs)	
11					* Soil sample selected from 4.0 - 5.5' bgs for laboratory analysis	
12						
13						
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22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	368-AC		Highland Park, IL
DATE:	8/29/2005		Building 368 - Vehicle Wash Area
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					Concrete and gravel base	Concrete 3" Thick
1				dry	FILL: Brown silty clay with sand and gravel	
				sl. moist	Dark brown to dark greenish brown silty clay with trace gravel	
2			118*	to		
3				moist		
4						Black staining at 4.0'
5			34.4			
6						
				sl. moist	Brown and gray silty clay witih trace grave	
7						
8						
9						
10					End of soil boring at 8 feet below ground surface (bgs)	
11					* Soil sample selected from 1.0 - 4.0' bgs for laboratory analysis	
12						
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	375-A		Highland Park, Illinois
DATE:	7/15/2005		Building 375 - Heating Oil AST
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					ASPHALT	
				dry	Black silt with gravel	Petroleum odor at 0 - 2.0' bgs
1				dry	Brown to gray silty clay with little grave	
			36.9*			
2						
3			4.1			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1.0 - 2.0' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	375-B		Highland Park, Illinois
DATE:	7/15/2005		Building 375 - Heating Oil AST
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					ASPHALT	
				dry	Black silt with gravel	
1				dry	Brown to gray silty clay with little grave	
			1.6*			
2						
3			1.4			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1.0 - 2.0' bgs for laboratory analysis	
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Prepared By: AEH
Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	375-C		Highland Park, Illinois
DATE:	7/15/2005		Building 375 - Heating Oil AST
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					ASPHALT	
				dry	Black silt with gravel	
1				dry	Brown to gray silty clay with little grave	
			1.1*			
2						
3			0.9			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1.0 - 2.0' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	377-A		Highland Park, Illinois
DATE:	7/15/2005		Building 377 - AST
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					Gray and brown gravel	
1			0.6*	dry to sl. moist	Brown gravelly sand	2.0' Soil Recovery
2						
3						
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1.0 - 2.0' bgs for laboratory analysis	
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Prepared By: AEH
Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	378-A		Highland Park, Illinois
DATE:	7/15/2005		Building 378
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					Gravel cover	
				sl. moist	Brown to black gravelly clay with ash pieces	
1						
			52.8*			
2				sl. moist	Gray to greenish brown silty clay with trace gravel	Slight petroleum odor
3						
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1.0 - 2.0' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	378-B		Highland Park, Illinois
DATE:	7/15/2005		Building 378
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					White to gray gravel	
				dry	Tan to brown silty clay with little gravel	
1						
			4.9*	sl. moist	Greenish brown to grayish brown silty clay with trace grave	Slight petroleum odor at 1.5-3.0' bgs
2						
3						
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1.0 - 2.0' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	378-C		Highland Park, Illinois
DATE:	7/15/2005		Building 378
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	TOTAL DEPTH: 4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown sandy silt with gravel and rootlets	2.0' Soil Recovery
1			0.5*	sl. moist	Black to brown silty clay with little sand and gravel	
2						Slight petroleum odor at 1.0-3.0' bgs
3				moist	Greenish brown silty clay with trace gravel	
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1.0 - 3.0' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	378-AA		Highland Park, IL
DATE:	8/29/2005		Building 378
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					TOPSOIL: Brown sandy silt with rootlets	
1			9999*		FILL: Black burned material with asphalt and glass	
2						
3						2.0' Soil Recovery
4						
5			69.1	wet	Greenish brown silty clay	
6						
7				sl. moist	Brown and gray silty clay with little grave	
8						
9						
10					End of soil boring at 8 feet below ground surface (bgs)	
11					* Soil sample selected from 1.0 - 4.0' bgs for laboratory analysis	
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24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	378-AB		Highland Park, IL
DATE:	8/29/2005		Building 378
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					TOPSOIL: Brown sandy silt	
				dry	White gravel	
1			70.7*	sl. moist	FILL: Blasck burned material	
					FILL: Black burned material with asphalt and glass	
2				sl. moist	Gray and grayish brown silty clay with trace grave	
3						
4				dry	Brown and gray silty clay with trace grave	
5			3.2			
6						
7						
8						
9						
10					End of soil boring at 8 feet below ground surface (bgs)	
11					* Soil sample selected from 1.0 - 2.0' bgs for laboratory analysis	
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24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	378-AC		Highland Park, IL
DATE:	8/30/2005		Building 378
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					FILL: Brown silt with little gravel	
				dry	Brown to black sandy silt with gravel	
1						Staining at 1'
			498			
2						
3					0.25' red brick	Brick 0.25' thick
			609*	v. moist	Fill: Black gravel with wood and brick pieces	Staining at 3'
4						Odor at 4 - 7'
				wet	Gray silty clay	
5			204			
				sl. moist	Brown and gray silty clay with trace grave	
6			119			
7						
8						
9						
10					End of soil boring at 8 feet below ground surface (bgs)	
11					* Soil sample selected from 3.0 - 4.0' bgs for laboratory analysis	
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24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	388		Highland Park, IL
DATE:	7/14/2005		Building 388
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown to dark brown gravelly silt with trace sand and rootlets	
1			0.0*			
2				dry to sl. moist	Brown and gray silty clay with trace grave	
3						
4						
5					End of soil boring at 4 feet below ground surface (bgs)	
6					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	389		Highland Park, IL
DATE:	7/14/2005		Building 389
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown to dark brown clayey silt with little gravel and rootlets	
1			0.0*			
2				dry to sl. moist	Brown and gray silty clay with trace grave	
3						
4						
5					End of soil boring at 4 feet below ground surface (bgs)	
6					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	390		Highland Park, IL
DATE:	7/14/2005		Building 390
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown gravelly silt with little clay and rootlets	
1			0.0*	dry	FILL: Gray to dark grayish brown silty clay with little gravel and ash	Observed burnt material
2				sl. moist	Brown to orangish brown silty clay with trace gravel	
3						
4						
5					End of soil boring at 4 feet below ground surface (bgs)	
6					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
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Prepared By: AEH
Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	420-A		Highland Park, IL
DATE:	7/15/2005		Building 420 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					TOPSOIL	
1			1.0*			
				moist	Brown sandy clayey silt, soft, pliable	
2						
				dry	Gray silty clay, with brown mottling, stiff, crumbly	
3			0.7			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
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Prepared By: AEH
Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	422-A		Highland Park, IL
DATE:	7/18/2005		Building 422 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					TOPSOIL	
					FILL: Light brown to gray gravel, sand and silt	
1			0.8			
2				dry	Brown sandy clayey silt, with gray mottling, crumbly, stiff	
3			14.4*			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 3 - 4' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

MACTEC

5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

TEST BORING RECORD

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	423-A		Highland Park, IL
DATE:	7/18/2005		Building 423 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					FILL: Gravel, white	
				dry	Brown sandy silt, stiff, crumbly, trace clay	
1			0.9			
2						
3			1.0			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 0 - 1' bgs for laboratory analysis	
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Prepared By: AEH
Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	424-A		Highland Park, IL
DATE:	7/15/2005		Building 424 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					TOPSOIL and gravel	
1			0.6*	moist	Dark gray to brown clayey silt, mottled, soft, pliable	
2						
3			0.4	moist	Dark gray to brown silty clay, mottled, soft, pliable	
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
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Prepared By: AEH
Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	425-A		Highland Park, IL
DATE:	7/15/2005		Building 425 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					TOPSOIL	
				dry	Brown silty sand, with gravel	
1			173*	moist	Dark gray silty clay, with black staining, moderate petroleum odor with brown mottling	
2				to dry		
3			84.9			Stiff at 3' bgs
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

MACTEC

5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

TEST BORING RECORD

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	426-A		Highland Park, IL
DATE:	7/18/2005		Building 426 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown, silty.	
				dry	FILL: Brown gravel, sand and silt, crumbly, stiff	
1			0.5*			
2				dry	Brown sandy silt, with trace gray mottling, crumbly	
3			0.5	dry	Brown silty clay, with gray mottling, crumbly	
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
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Prepared By: AEH
Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	427-A		Highland Park, IL
DATE:	7/18/2005		Building 427 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					TOPSOIL: Dark brown, sandy, silty	
1			0.7	dry	Brown sandy silt, stiff, crumbly	
2				dry	Brown clayey silt, with gray mottling, stiff, crumbly	
3			1.1*			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 3 - 4' bgs for laboratory analysis	
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Prepared By: AEH
Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	428-A		Highland Park, IL
DATE:	7/15/2005		Building 428 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					TOPSOIL	
				dry	Brown silty sand, with gravel	
1			0.7	moist	Dark gray silty clay, with black staining, moderate petroleum odor with brown mottling	
				to		
2				dry		
					Sandy lens from 2.5' to 3.5' bgs	
3			1.5*			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 3 - 4' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	429-A		Highland Park, IL
DATE:	7/15/2005		Building 429 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					TOPSOIL	
					FILL: Gravel	
1			1.3*	dry	Brown silty clay, with gray mottlling	
2						
3			0.6			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	430-A		Highland Park, IL
DATE:	7/18/2005		Building 430 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown to dark brown silty sand with trace gravel	
1			1.2			
2				dry	Brown clayey silt, with more gray mottling with depth, stiff	
3			1.7*			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 3 - 4' bgs for laboratory analysis	
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TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	431-A		Highland Park, IL
DATE:	7/18/2005		Building 431 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	TOTAL DEPTH: 4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown with trace gravel	
1			1.2*			
				dry	Brown sandy silt, with gray mottling, crumbly, moderately stiff	
2						
3			1.4	dry	Brown clayey silt, with more gray mottling, crumbly, moderately stiff	
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	440-A		Highland Park, IL
DATE:	7/15/2005		Building 440 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					ASPHALT	
					FILL: Gravel	
1			0.6*			
2				moist	Brown silty clay, stiff, crumbly, gray mottling at 3-4' bgs	
3			2.4			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	493-A		Highland Park, IL
DATE:	7/15/2005		Building 493 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					TOPSOIL	
1			0.9			
				moist	Brown sandy clayey silt, soft, pliable	
2						
				dry	Gray silty clay, with brown mottling, stiff, crumbly	
3			3.6*			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 3 - 4' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	642-A		Highland Park, IL
DATE:	7/18/2005		Building 642 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				very dry	TOPSOIL: Dark brown, sandy, silty	
1			1.2*			
2				very dry	Light brown to brown sandy clayey silt, stiff, crumbly	
3			1.6			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
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Prepared By: AEH
Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	660-A		Highland Park, IL
DATE:	7/18/2005		Building 660 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				very dry	TOPSOIL: silty, sandy, gravelly	
1			1.7		Brown sandy silt, crumbly	
2				dry	Brown silty clay, stiff	
3			2.1*		Brown sandy silt, with gray mottling	
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 3 - 4' bgs for laboratory analysis	
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25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	663-A		Highland Park, IL
DATE:	7/18/2005		Building 663 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				very dry	Light brown sand, trace silt and gravel, crumbly	
1			1.2			
2				dry	Light brown silty sand	
3			1.8*			
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 3 - 4' bgs for laboratory analysis	
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Prepared By: AEH
Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Ft. Sheridan
BORING NO:	664-A		Highland Park, IL
DATE:	7/18/2005		Building 664 - Heating Oil AST
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Light to dark brown, sandy, silty	2.5' Soil Recovery
1			1.6		FILL: White/gray gravel	
2				dry	Brown sandy silt, crumbly	
3			2.1*	dry	Brown silty clay, with gray mottling, moderately stiff, crumbly	
4						
5						
6					End of soil boring at 4 feet below ground surface (bgs)	
7					* Soil sample selected from 3 - 4' bgs for laboratory analysis	
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TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	652-A		Highland Park, IL
DATE:	7/13/2005		South of Building 652
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown silt with trace sand and gravel	3.0' / 4.0' Soil Recovery
1				dry	Brown silty clay with trace gravel	
2			7.4*			
3				dry	Gray and brown silty clay with trace gravel	
4						
5					End of soil boring at 4 feet below ground surface (bgs)	
6					* Soil sample selected from 2 - 3' bgs for laboratory analysis	
7					Boring located adjacent to AST secondary containment drain	
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25						Prepared By: AEH Checked By: EJW

MACTEC

5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

TEST BORING RECORD

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	657-A		Highland Park, IL
DATE:	7/13/2005		South of Building 657
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown silt with little sand and trace rootlets	
1			3.1*	dry	Brown silty clay with rootlets and trace gravel	
2						
3				dry	Gray and brown silty clay with trace gravel	
4						
5					End of soil boring at 4 feet below ground surface (bgs)	
6					* Soil sample selected from 1 - 2' bgs for laboratory analysis	
7					Boring located adjacent to AST secondary containment drain	
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25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	666-A		Highland Park, IL
DATE:	7/13/2005		South of Building 666
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	4'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown silt with little gravel	
1			5.1	sl. moist	Brown silt clay with trace gravel	
2						
3			53.5*	sl. moist	Gray and brown silty clay with trace gravel	Petroleum odor observed at 3 - 4' bgs
4						
5					End of soil boring at 4 feet below ground surface (bgs)	
6					* Soil sample selected from 3 - 4' bgs for laboratory analysis	
7					Boring located adjacent to AST secondary containment drain	
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25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	800-A		Highland Park, IL
DATE:	7/12/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown silty sand with trace gravel and clay	
1			--			No PID screening of 0-4' due to rain
2						
3				dry	FILL: Black to brown burnt ash material	No odor observed
				dry	Brown to light brown sandy silt with little clay and trace rootlets	
4						
5			1.7*	sl. moist	Brown and gray silty clay with trace gravel	
6						
7						
8				dry to sl. moist	Brown clay with little silt and trace gravel	
9			0.2			
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 4 - 8' bgs for laboratory analysis	
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17						
18						
19						
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22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	800-B		Highland Park, IL
DATE:	7/12/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0–3			–	dry / moist	TOPSOIL: Brown to white sandy silt with gravel Fill: Dark brown to reddish brown silty clay with sand and gravel	No PID screening of 0-4' due to rain
4–7			1.1	sl. moist to moist	Tan and gray mottled silty clay with trace gravel	
8–11			0.2*	moist	Brown and gray mottled silty clay	
12–25					End of soil boring at 12 feet below ground surface (bgs) * Soil sample selected from 8 - 12' bgs for laboratory analysis	Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	800-C		Highland Park, IL
DATE:	7/12/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0–3			--	dry	TOPSOIL: Brown to dark brown sandy silt with gravel	No PID screening of 0-4' due to rain
4–7			15.7*	moist	Olive brown and gray silty clay with little grave	Petroleum odor detected at 4 - 8'
8–11			7.1	dry to sl. moist	Brown and gray silty clay	Petroleum odor detected at 8 - 10'
12–25					End of soil boring at 12 feet below ground surface (bgs) * Soil sample selected from 4 - 8' bgs for laboratory analysis	Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	800-D		Highland Park, IL
DATE:	7/12/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0–3			–	sl. moist	TOPSOIL: Brown to dark brown gravelly silt with little sand and clay	No PID screening of 0-4' due to rain
4–7			0.4	sl. moist	Brown and gray silty clay with grave	
8–11			1.5*	sl. moist to moist	Brown and gray silty clay with trace grave	
12–25					End of soil boring at 12 feet below ground surface (bgs) * Soil sample selected from 8 - 12' bgs for laboratory analysis	Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	801-A		Highland Park, IL
DATE:	7/12/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					Concrete Sidewalk (~4" thick)	
1			0.5		FILL: Very dark brown sandy clay FILL: Brown and gray silty clay with trace grave	
2						
3					FILL: Dark gray silt	
4				sl. moist	FILL: Brown to dark brown silt with gravel and clay	
5			1.5*			
6				sl. moist	Mottled brown and gray silty clay with trace gravel and rootlets	
7						
8				dry to sl. moist	Mottled brown and gray silty clay	
9			1.2			
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 4 - 8' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	801-B		Highland Park, IL
DATE:	7/12/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0–3			–	dry	TOPSOIL: Brown silty sand with gravel and little clay	No PID screening of 0-4' due to rain
4–7			0.5	dry sl. moist to dry	FILL: Dark brown clayey silt with sand Mottled gray and brown silty clay with trace rootlets	
8–11			1.3*			
12–25					End of soil boring at 12 feet below ground surface (bgs) * Soil sample selected from 8 - 12' bgs for laboratory analysis	Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	801-C		Highland Park, IL
DATE:	7/12/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown to dark brown sandy silt with little gravel and clay	
1			--			No PID screening of boring due to rain
2						
3				sl. moist	Mottled brown and gray silty clay	
4						
5			-- *			
6						
7						
8				wet	Brown silty sand	
9			--			
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 4 - 8' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	801-D		Highland Park, IL
DATE:	7/12/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0–4			—	dry	TOPSOIL: Brown to grayish brown sandy silt with trace gravel	No PID screening of 0-4' due to rain
4–8			0.9	sl. moist	Mottled brown and gray silty clay	
8–12			0.2*	dry	Mottled brown and gray silty clay with trace grave	
12–25					End of soil boring at 12 feet below ground surface (bgs) * Soil sample selected from 8 - 12' bgs for laboratory analysis	Prepared By: AEH Checked By: EJW

MACTEC

5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

TEST BORING RECORD

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	802-A		Highland Park, IL
DATE:	7/12/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0–3			—	dry dry to sl. moist	TOPSOIL: Brown sandy silt with gravel FILL: Brown and grayish brown silty clay with little grave	No PID screening of 0-4' due to rain
4–7			1.0	dry to sl. moist	Brown and gray silty clay with trace grave	
8–11			1.3*			
12–25					End of soil boring at 12 feet below ground surface (bgs) * Soil sample selected from 8 - 12' bgs for laboratory analysis	Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	802-B		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	4" Concrete sidewalk and aggregate base FILL: Gravelly silt with clay	
1			–	dry to sl. moist	Dark gray to grayish brown silty clay	
2						
3			17.2			
4				dry to sl. moist	Gray to brown silty clay with trace gravel	
5						
6						
7			25.2*			
8						
9						
10			3.5			
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 7 - 8' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	802-C		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown silt with little gravel and trace sand and rootlets	
1			--	dry	FILL: Brown silt with gravel, sand, and trace rootlets	No PID screening of 0-4'
2						
3				dry	FILL: Tan to orangish tan silt with clay and trace gravel and rootlets	
4				dry to sl. moist	Brown to gray silty clay with trace gravel and rootlets	
5						
6			0.0			
7				sl. moist	Brown silty clay with trace gravel	
8						
9						
10			0.0*			
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 8 - 12' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	802-D		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown silt with little gravel and trace sand and rootlets	
1			--	dry	FILL: Brown to dark brown silt with clay and trace sand and gravel	No PID screening of 0-4'
2						
3				dry	FILL: Brown to orangish brown silt with clay and trace gravel	
4				sl. moist	Olive to brown silty clay with trace sand and gravel	
5				moist	Brown to gray sandy clay with gravel	
6			2.2*	moist	Brown to gray silty clay with trace gravel	
7						
8						
9						
10			0.8			
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 4 - 8' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	803-A		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown silt	
1			—	dry	FILL: Brown to orangish brown clayey silt with gravel and sand	No PID screening of 0-4'
2						
3						
4			0.8			Limited black staining observed at 4.25' bgs
5				sl. moist	Olive to gray silty clay with trace grave	
6			0.0			
7						
8				moist	Orangish brown to grayish white silty clay with trace grave	
9						
10			0.0*			
11				moist to wet	Brown sand with trace gravel	
12						
13						
14						
15					End of soil boring at 12 feet below ground surface (bgs)	
16					* Soil sample selected from 4 - 8' bgs for laboratory analysis	
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	803-B		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown silt with trace gravel	
				dry	FILL: Dark brown to brown sandy silt with little gravel	
1			—			No PID screening of 0-4'
2						
3						
4				dry	FILL: Tan to orangish brown clayey silt with little gravel and trace sand and rootlets	
5			0.0			
6						
7						
8				dry to sl. moist	Brown and gray silty clay with trace grave	
9						
10			0.0*			
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 8 - 12' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	803-C		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown silt with little gravel	
				dry	FILL: Brown sandy silt with little gravel	
1						
			--			No PID screening of 0-4'
2						
3				dry to sl. moist	FILL: Brown to orangish brown silty clay with sand and grave	
4						
5			0.0*			
6				moist to sl. moist	FILL: Grayish brown to blackish brown silty clay with little gravel anc wood pieces	
7						Limited staining observed at 7' bgs
8						
9				wet	Gray gravelly sand	
10			0.0	moist	Brown silty clay with trace gravel	
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 6 - 8' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	803-D		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown silt with clay and trace gravel	
1, 2, 3			–	dry to moist	FILL: Brown to dark brown silty clay with little gravel and sand with trace rootlets	No PID screening of 0-4'
4, 5, 6, 7			0.0*	sl. moist	Brown to grayish brown silty clay with trace grave	
8, 9, 10, 11			0.0			
12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25					End of soil boring at 12 feet below ground surface (bgs) * Soil sample selected from 8 - 12' bgs for laboratory analysis	Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	804-A		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown silt with clay and trace gravel	2.5' / 4.0' soil recovery
1			--	dry to moist	FILL: B rown to dark brown sandy clay with gravel	No PID screening of 0-4'
2						
3				sl. moist	FILL: Dark brown sandy clay with trace gravel	
4						
5						
6						
7			21.2*	moist	FILL: Brown and gray silt clay with trace gravel and wood pieces	At 7' bgs observed black staining and wood chips
8			0.0	moist	Olive brown silty clay with trace gravel	
9						
10				sl. moist	Brown and gray silty clay with trace grave	
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 7 - 8' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	804-B		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown to brown silt with little gravel	
1			--	dry	FILL: Brown sandy silt with little gravel	No PID screening of 0-4'
2				dry	FILL: Dark brown silty clay with little sand and gravel	
3						
4				dry	FORMER TOPSOIL: Dark brown silt with rootlets	
5			0.0	dry	FILL: Greenish brown to grayish brown silty clay with trace gravel and wood pieces	
6						
7						
8						
9			0.0*	dry to sl. moist	Brown to grayish brown silty clay with trace grave	
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 8 - 12' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	804-C		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Dark brown to brown silt with trace gravel	
				dry	FILL: Brown silt with sand and gravel	
1						
			—			No PID screening of 0-4'
2				dry	FILL: Dark brown sandy clay with trace gravel	
				to		
3				sl. moist		
				moist	FILL: Dark gray to greenish brown silty clay with trace gravel	
4						
				dry	TOPSOIL: Dark brown silt with rootlets	
5				dry	FILL: Greenish brown to grayish brown silty clay with trace gravel and wood pieces	Large wood pieces observed at 5' bgs
			0.0*			
6						
				sl. moist	Brown to gray silty clay with trace gravel	
7						
8						
9						
			0.0			
10						
11						
12						
13						
14						
					End of soil boring at 12 feet below ground surface (bgs)	
15						
					* Soil sample selected from 4 - 8' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	804-D		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					3" Concrete sidewalk and aggregate base	
				dry	FILL: Brown to dark brown sandy clay with little gravel	
1			—			No PID screening of 0-4'
2				sl. moist	FILL: Gray to greenish brown silty clay with little gravel and trace wooc pieces	
3						
4						
5				sl. moist	Brown and gray silty clay with trace grave	
			0.0*	wet	Brown to orangish brown sand with trace gravel	
6						
7				moist	Brown silty clay with trace sand and gravel	
8				wet	Brown sand with trace gravel	
9			0.0	moist	Brown and gray silty clay with trace grave	
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 4 - 8' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	805-A		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	3" Concrete sidewalk and aggregate base FILL: Brown to dark brown clayey silt with gravel and sand	
1			—			No PID screening of 0-4'
2				moist	FILL: Greenish brown to brown silty clay with trace gravel	
3						
4				sl. moist to wet	Tan silty sand with trace gravel	
5			0.0*			
6						
7				sl. moist to moist	Brown silty clay with trace gravel	
8						
9			0.0			
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 4 - 8' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	805-B		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					3" Concrete sidewalk and aggregate base	
1				dry	FILL: Gravelly silt with little sand	
				dry	FILL: Brown to dark brown sandy clay with trace gravel	
2			–	to		No PID screening of 0-4'
3				sl. moist		
4						
5			0.0	sl. moist	Brown to dark brown silty clay with trace grave and sand	
6				to		
7				moist		
8						
9			0.0*	wet	Brown and gray silty sand	
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 8 - 9.5' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	805-C		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					3" Concrete sidewalk and aggregate base	
1			--	dry dry to sl. moist	FILL: Gravelly silt with sand FILL: Brown to dark brown sandy clay with gravel	2.5' / 4.0' soil recovery No PID screening of 0-4'
2						
3						
4						
5			0.0*	dry	FILL: Greenish brown silty clay with trace gravel and wood pieces	
6				moist	Gray to brown silty clay with sand and trace gravel	
7				wet	Brown and gray silty sand with trace gravel	
8						
9			0.0			
10				sl. moist	Brown and gray silty clay with trace grave	
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 4 - 8' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	805-D		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					3" Concrete sidewalk and aggregate base	
1				dry	FILL: Gravelly silt with sand	
				dry	FILL: Brown to dark brown sandy clay with gravel	
2			–	to		No PID screening of 0-4'
3				sl. moist		
4						
5				sl. moist	FILL: Brown to greenish brown silty clay with trace gravel	
			0.0			
6				dry	Brown and gray silty clay with trace grave	
7				to sl. moist		
8						
9			0.0*			
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 8 - 12' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	806-A		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Light brown silt with sand and rootlets	
1			--	dry	FILL: Brown to orangish brown clayey silt with trace sand and gravel	No PID screening of 0-4'
2						
3						
4				dry to moist	Brown and gray silty clay with trace grave	
5			0.0			
6						
7			0.5*			
8				sl. moist to moist	Brown to orangish brown silty clay with trace gravel	
9						
10			0.0			
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 7 - 8' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	806-B		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown to dark brown silt with little clay and gravel	
1			–	dry	FILL: Gravelly silt with little sand and clay	No PID screening of 0-4'
2				dry	Brown and gray clayey silt with little grave	
3				to moist		
4						
5						
6			0.0			
7						
8						2.0' / 4.0' soil recovery
9			–	moist	Brown gravelly clay with sand	
10						No PID screening of 8-12' due to water content
11				wet	Brown sand with trace clay and gravel	
12						
13						
14						
15					End of soil boring at 12 feet below ground surface (bgs)	
16					* Soil sample selected from 4 - 8' bgs for laboratory analysis	
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	806-C		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown gravelly silt with sand and rootlets	
1			--			No PID screening of 0-4'
2				dry	FILL: Brown to dark brown clayey silt with little gravel and rootlets	
3						
4				dry to sl. moist	FILL: Tan to brown gravelly clay with little silt and sand	
5						
6			0.0 *			
7				sl. moist to wet	Tan to orangish brown sand with trace clay and gravel	
8						
9						
10			0.0	sl. moist	Gray clay with trace gravel	
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 6 - 8' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	806-D		Highland Park, IL
DATE:	7/13/2005		Bullock Drive Apartments
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown gravelly silt with sand and rootlets	
1			—	dry	FILL: Brown to dark brown gravelly silt with sand	No PID screening of 0-4'
2						
3				dry	Brown to dark brown silty clay with trace gravel and sand	
4				dry to sl. moist	Brown to brownish gray silty clay	3.0' / 4.0' soil recovery
5						
6			0.0*			
7						
8						
9						
10			0.0	wet	Brown clayey sand	
11				sl. moist	Gray clay with trace gravel	
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 6 - 8' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: EJW

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	LF5-A		Highland Park, IL
DATE:	8/30/2005		Landfill 5
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					ASPHALT and road base	
1				sl. moist	Greenish brown to gray silty clay with trace gravel	2.0' Soil Recovery
2			4400*			
3						
4				wet	White to gray sandy gravel	
5			685*	sl. moist to moist	Gray to brown silty clay with trace gravel	
6						
7			382			
8						
9				wet	White to gray sandy gravel	
10			67.1	moist	Gray to brown silty clay with trace gravel	
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 2.0 - 3.0' bgs (LF5-A-1) and 5.0 - 6.0' bgs (LF5-A) for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	LF5-B		Highland Park, IL
DATE:	8/30/2005		Landfill 5
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	TOTAL DEPTH: 12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					FILL: Brown to white gravel with little sand	
1			152	sl. moist	FILL: Black sand with gravel and asphalt FILL: Gray silty clay with wood pieces Greenish gray silty clay with trace gravel	
2						
3						
4				Dry	White gravel with sand	
5			67.1	sl. moist	Brown and gray silty clay with trace grave	
6						
7						
8						
9						
10			207			
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 0.5 - 2.0' bgs (LF5-B-1) and 9.0 - 12.0' bgs (LF5-B) for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	LF5-C		Highland Park, IL
DATE:	8/30/2005		Landfill 5
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	FILL: Dark brown to white gravel with little sand and clay	
1			384			
2			584*	sl. moist to moist	Brown and gray silty clay withi trace grave	
3						
4			180	sl. moist	Brown gravelly clay with little sand	
5				moist to v. moist	Brown to orange-brown silty clay with trace gravel	
6						
7			188			
8						3.0' Soil Recovery
9						
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 2.0 - 4.0' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	LF5-D		Highland Park, IL
DATE:	8/30/2005		Landfill 5
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	FILL: Tan to brown gravelly silt witih clay	
1			433*	dry	FILL: Very dark brown gravelly silt with organics and sand	
2					FILL: Gray to brown silty clay with little gravel and organics	
3			301			
4				dry	FILL: White sandy gravel	
5			181	dry	Brown to gray silt with little gravel	
6				sl. moist to moist	Brown silty clay with trace gravel	
7			67.0			
8						
9			152*			
10						
11			62			
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 1.0 - 2.0' bgs (LF5-D-1) and 9.0 - 10.0' bgs (LF5-D) for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	LF5-E		Highland Park, IL
DATE:	8/30/2005		Landfill 5
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				sl. moist	White to brown gravel with sand and clay	
1			52.2	dry to sl. moist	Brown and gray silty clay with trace grave	
2						
3			19.1			
4						
5			225			
6						
7			337*			
8						
9			67.1			
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 7.0 - 8.0' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	LF5-F		Highland Park, IL
DATE:	8/30/2005		Landfill 5
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	White to brown sandy gravel	
				dry	Black gravel with cinders	
1			39	dry	Brown to gray silty clay with trace gravel	
2				to		
				sl. moist		
3			202*			
4				dry	White gravel	
				dry	Brown to gray silty clay with trace gravel	
5			58	to		
6				sl. moist		
7			78.6*			
8						
9						
10			34.1			
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 3.0 - 4.0' bgs (LF5-F-1) and 7.0 - 8.0' bgs (LF5-F) for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	LF7-A		Highland Park, IL
DATE:	8/30/2005		Landfill 7
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	20'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown sandy silt with little clay	
1			2655*	dry	FILL: Tan to gray silty clay with little grave	
2						
3						
4				sl. moist	FILL: Brown to greenish brown silty clay with little grave	
5			288			
6				v. moist	FILL: Greenish brown to black gravelly clay	
7			141*			
8				moist	Dark brown to brown silty clay with trace gravel	
9			62.1			
10						
11						
12						
13			96.2			
14						
15				sl. moist	Dark brown to orangish brown clay with silt and trace gravel	
16						
17			48.1			
18						
19						
20						
21						
22					End of soil boring at 20 feet below ground surface (bgs)	
23					* Soil sample selected from 1.0 - 3.0' bgs (LF7-A) and 6.5 - 8.0' bgs (LF7-A-1) for laboratory analysis	
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	LF7-B		Highland Park, IL
DATE:	8/30/2005		Landfill 7
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	16'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown silt with little clay	
1			142*	dry dry to sl. moist	FILL: Black gravel with sand FILL: Brown to reddish brown silty clay with little grave	
2						
3						
4				dry to sl. moist	Brown and gray silty clay with trace grave	
5			42.1			
6						
7				Dry		
8						
9			15			
10						
11						
12				sl. moist	Brown to orangish brown silty clay with trace gravel	
13			33.1*			
14						
15						
16						
17						
18					End of soil boring at 16 feet below ground surface (bgs)	
19					* Soil sample selected from 1.0 - 3.0' bgs (LF7-B) and 13.0 - 15.0' bgs (LF7-B-1) for laboratory analysis	
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	GV11		Highland Park, IL
DATE:	9/8/2005		Landfills #6 & #7
LOGGED BY:	MSR	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	20'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0		48"		moist	Brown Silty Clay, with some fine-grained sand and fine gravel at 1 ft., with a trace of fine gravel, gray-colored mottling, low plasticity	
1						
2						
3						
4		48"				
5						
6						
7						
8		48"				
9						
10						
11				very moist	Grayish-Brown Clay, medium to high plasticity	
12		48"			at 12 ft., with a trace of fine- to medium-grained sand and fine gravel	
13						
14						
15						
16		48"				
17						
18					at 18 ft., high plasticity	
19						
20					End of boring at 20 feet below ground surface (bgs)	
21						
22						
23						
24						
25						Prepared By: MSR Checked By: DEN

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	GV15		Highland Park, IL
DATE:	9/8/2005		Landfills #6 & #7
LOGGED BY:	MSR	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	20'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0–3		36"		dry moist	Brown Silty Clay, with some fine- to medium-grained sand, with a trace of coarse-grained sand and fine gravel, low plasticity	
4–7		48"			at 4 ft., with a trace of fine- to coarse-grained sand, brownish-orange and gray-colored mottling, low- to medium plasticity.	
8–11		48"			at 10.5 ft., minor gray-colored mottling, medium plasticity	
12–15		48"		moist to v. moist	Grayish-Brown Clay, with a trace of fine- to coarse-grained sand, medium- to high plasticity	
16–19		36"				
20–25					End of boring at 20 feet below ground surface (bgs)	Prepared By: MSR Checked By: DEN

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	GV17		Highland Park, IL
DATE:	9/9/2005		Landfills #6 & #7
LOGGED BY:	MSR	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	20'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0		33"		dry to moist	Mixture of Light Brown Silty Clay and Gravel, fine and coarse gravel	
1				moist	Brownish-Gray Silty Clay, low plasticity	
2						
3						
4		48"		moist	Brown Silty Clay, with a trace of fine- to coarse-grained sand and fine gravel, with some brownish-orange and gray mottling, low- to medium plasticity	
5						
6						
7						
8		48"				
9						
10						
11						
12		48"		moist	Grayish-Brown Clay, with a trace of fine- to coarse-grained sand and fine gravel, medium plasticity	
13						
14						
15						
16		36"				
17					at 17 ft., with some orangish-brown mottling	
18						
19				very moist		
20					End of boring at 20 feet below ground surface (bgs)	
21						
22						
23						
24						
25						Prepared By: MSR Checked By: DEN

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	GV20		Highland Park, IL
DATE:	9/9/2005		Landfills #6 & #7
LOGGED BY:	MSR	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	20'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0		42"		moist	Grayish-Brown Silty Clay, with a trace of fine- to medium-grained sand and fine gravel, with some brownish-orange and gray mottling, low plasticity at 0.75 ft., moist	
4		48"		very moist	at 4 ft., change in color to brown, with a trace of medium- to coarse-grained sand, brownish-orange and gray-colored mottling, low- to medium plasticity	
8		45"			at 8 ft., low plasticity	
12		42"		moist to very moist to	Grayish-Brown Clay, with a trace of fine- to coarse gravel, medium- to high plasticity	
16		42"				
20					End of boring at 20 feet below ground surface (bgs)	

Prepared By: MSR
Checked By: DEN

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	GV23		Highland Park, IL
DATE:	9/9/2005		Landfills #6 & #7
LOGGED BY:	MSR	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	20'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0, 1, 2, 3		42"		dry moist	Brown Silty Clay, with a trace of fine- to coarse-grained sand, low plasticity at 0.75 ft., with some brownish-orange to gray mottling	
4, 5, 6, 7		42"				
8, 9, 10, 11		48"			at 8 ft., with a trace of fine- to coarse-grained sand and fine gravel, medium plasticity	
12, 13, 14, 15		48"		moist to very moist to	Grayish-Brown Clay, with a trace of fine- to coarse-grained sand, medium- to high plasticity	
16, 17, 18, 19		42"			at 16 ft., with a trace of fine and coarse gravel	
20, 21, 22, 23, 24, 25					End of boring at 20 feet below ground surface (bgs)	Prepared By: MSR Checked By: DEN

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	VES#3-A		Highland Park, IL
DATE:	7/14/2005		Vehicle Equipment Storage Area 3
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	10'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	FILL: Black to gray gravel and sand	
1			0.0	moist	Gray to brown silty clay	
2			0.0			
3						
4				sl. moist	Brown and dark brown mottled silty clay	
5			0.0			
6						
7			0.0			
8						
9			0.0*			
10						
11					End of soil boring at 10 feet below ground surface (bgs)	
12					* Soil sample selected from 9-10' bgs for laboratory analysis	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	VES#3-B		Highland Park, IL
DATE:	7/14/2005		Vehicle Equipment Storage Area 3
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	Brown clayey silt	
1			0.0*			
2						
3			0.0			
4				dry	Brown to gray mottled silty clay	
5			0.0			
6						
7			0.0			
8					End of soil boring at 8 feet below ground surface (bgs)	
9					* Soil sample selected from 1-2' bgs for laboratory analysis	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	VES#3-C		Highland Park, IL
DATE:	7/14/2005		Vehicle Equipment Storage Area 3
LOGGED BY:	DEN	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	FILL: Brown to dark gray gravel and sand	
1			1.2		FILL: Dark gray to black sandy silt with trace wood chips	
2						
3			1.1*			
4				moist	Gray silty clay	
5			0.9			
6				dry	Brown silty clay	
7			0.8			
8					End of soil boring at 8 feet below ground surface (bgs)	
9					* Soil sample selected from 3-4' bgs for laboratory analysis	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	VES#3-D		Highland Park, IL
DATE:	7/14/2005		Vehicle Equipment Storage Area 3
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	—
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	FILL: White to gray gravel and sand	
				dry	FILL: Dark brown sandy silt with little gravel	
1			1.1*			
2				dry to sl. moist	Brown to gray silty clay with little to trace grave	
3						
4						
5						
6			0.7			
7						
8					End of soil boring at 8 feet below ground surface (bgs)	
9					* Soil sample selected from 1-2' bgs for laboratory analysis	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	VES#3-E		Highland Park, IL
DATE:	7/14/2005		Vehicle Equipment Storage Area 3
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	FILL: White to gray gravel	
1			79.1	dry	FILL: Brown gravelly silt	
2				sl. moist	Greenish brown to gray silty clay	
3						
4						
5			116*	vr. moist	Dark brown clayey sand with little gravel	Petroleum odor observed at 5-6' bgs
6				sl. moist	Brown and gray silty clay with little grave	
7						
8					End of soil boring at 8 feet below ground surface (bgs)	
9					* Soil sample selected from 5-6' bgs for laboratory analysis	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	VES#7-A		Highland Park, IL
DATE:	7/14/2005		Vehicle Equipment Storage Area 7
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	FILL: White to gray gravel	
1			0.2*		FILL: Brown to very dark brown silty clay with little gravel anc trace wood chips	
2						
3						
4				dry	Tan to brown silty clay with trace gravel and sand	
5			0.0			
6						
7						
8					End of soil boring at 8 feet below ground surface (bgs)	
9					* Soil sample selected from 1-2' bgs for laboratory analysis	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	VES#7-B		Highland Park, IL
DATE:	7/14/2005		Vehicle Equipment Storage Area 7
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205-05-0441.03	MACTEC DRAWING NUMBER:	---
		TOTAL DEPTH:	8'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	FILL: Gravel with silt	
1				dry	FILL: Brown to dark brown silty clay with gravel	
2						
3			0.0			
4				dry	Dark brown to grayish brown silty clay with trace gravel	Small, rounded piece of metal encountered at 4' bgs
5			0.0*			
6						
7						
8					End of soil boring at 8 feet below ground surface (bgs)	
9					* Soil sample selected from 4-6' bgs for laboratory analysis	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	VES#7C		Highland Park, IL
DATE:	7/15/2005		Vehicle Equipment Storage Area 7
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					TOPSOIL: Brown silt with little gravel and rootlets	
1				sl. moist	Brown sand with trace gravel	
2			0.0*			
3				sl. moist	Gray silty clay with gravel	
4						3.0' Soil Recovery
5			0.0	moist to wet	Gray to brownish gray silty sand	
6						
7				moist	Gray to greenish brown silty clay with trace gravel	
8						
9			0.0			
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 2 - 3' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	B-49A		Highland Park, IL
DATE:	8/29/2005		Wells Ravine Tributary - North
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	TOTAL DEPTH: 12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0–3			374*	dry	TOPSOIL: Dark brown silt Light brown to dark brown silty clay with little gravel and trace asphalt and wood pieces	
4–7			124	dry	Grayish brown silty clay with trace gravel	
8–11			107			
12–25					End of soil boring at 12 feet below ground surface (bgs) * Soil sample selected from 1.0 - 4.0' bgs for laboratory analysis	Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	B-73A		Highland Park, IL
DATE:	8/29/2005		Wells Ravine Tributary - North
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				sl. moist	TOPSOIL: Dark brown clayey silt Brown to dark brown silty clay with trace gravel	
1						
2			156			
3						
4				dry to sl. moist	Brown and gray silty clay, with trace grave	
5						
6			346*			
7						
8						
9			221			
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 5.0 - 7.0' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	B-73B		Highland Park, IL
DATE:	8/29/2005		Wells Ravine Tributary - North
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					TOPSOIL: Dark brown clayey silt with organics	
1			213*	sl. moist	FILL: Brown to dark brown silty clay with large wood pieces and little gravel	
2				sl. moist	Brown silty clay with trace gravel	
3						
4						
5			55.7			
6						
7						
8			158	sl. moist	Brown silty clay with trace gravel and wood pieces	
9						
10				sl. moist	Brown silty clay with little gravel	
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 1.0 - 2.5' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	B-74A		Highland Park, IL
DATE:	8/29/2005		Wells Ravine Tributary - North
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	
		TOTAL DEPTH:	12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0					ASPHALT	
1				dry	FILL: Brown to white gravelly clay with little sanc	
2			145	dry to sl. moist	Brown and gray silty clay with trace grave	
3						
4						
5			1060*			
6						
7						
8						
9			966			
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 4.0 - 8.0' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	B-74B		Highland Park, IL
DATE:	8/29/2005		Wells Ravine Tributary - North
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	TOTAL DEPTH: 12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown silt with little sand	
1			222*	dry	FILL: Very dark brown to black silt with gravel, with glass and asphalt pieces	
2				dry	FILL: White to tan silt	powdery
3				dry	Brown to reddish brown silty clay with trace gravel and rootlets	
4						
5			48	dry to sl. moist	Brown and gray silty clay with trace grave	
6						
7						
8			12			
9						
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 1.5 - 3.0' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

TEST BORING RECORD

MACTEC
5440 N. CUMBERLAND AVE.
SUITE 250
CHICAGO, IL 60656

CLIENT:	Forest City - Washington	SITE:	Fort Sheridan
BORING NO:	B-74C		Highland Park, IL
DATE:	8/29/2005		Wells Ravine Tributary - North
LOGGED BY:	AEH	DRILLED BY:	Paramount
DRILLING METHOD:	Geoprobe	SAMPLING METHOD:	Continuous
		HOLE DIA.:	2"
MACTEC PROJECT NUMBER:	3205050441.03	MACTEC DRAWING NUMBER:	TOTAL DEPTH: 12'

DEPTH	SAMPLE NUMBER	SAMPLE RECOVERY	PID READING (ppm)	MOISTURE CONTENT	LITHOLOGY	REMARKS
0				dry	TOPSOIL: Brown silt with trace gravel	
1			54*	dry	Grayisih brown to brown silty clay witih little sand and trace grave	
2				dry	Brown to gray silty clay with trace gravel	
3						
4			14.1			
5						
6				sl. moist	Brown silty clay with little gravel	
7						
8						
9			5.4			
10						
11						
12						
13						
14					End of soil boring at 12 feet below ground surface (bgs)	
15					* Soil sample selected from 1.0 - 4.0' bgs for laboratory analysis	
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						Prepared By: AEH Checked By: MSR

Appendix C

Analytical Laboratory Reports

STAT Analysis Corporation
2255 West Harrison St., Suite B, Chicago, IL 60612-3505
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

July 22, 2005

Checked & OK
DEN 8/18/05

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205050441.03, NAVFAC, St. Sheridan STAT Project No: 0507360

Dear Dennis Nagg:

STAT Analysis received 13 samples for the referenced project on 7/13/2005. The analytical results are presented in the following report.

This report is revised to reflect changes made after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205050441.03, NAVFAC, St. Sheridan
Lab Order: 0507360

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0507360-001A	801A		7/12/2005 9:00:00 AM	7/13/2005
0507360-001B	801A		7/12/2005 9:00:00 AM	7/13/2005
0507360-002A	801B		7/12/2005 9:20:00 AM	7/13/2005
0507360-002B	801B		7/12/2005 9:20:00 AM	7/13/2005
0507360-003A	801C		7/12/2005 9:45:00 AM	7/13/2005
0507360-003B	801C		7/12/2005 9:45:00 AM	7/13/2005
0507360-004A	801D		7/12/2005 10:00:00 AM	7/13/2005
0507360-004B	801D		7/12/2005 10:00:00 AM	7/13/2005
0507360-005A	800A		7/12/2005 10:30:00 AM	7/13/2005
0507360-005B	800A		7/12/2005 10:30:00 AM	7/13/2005
0507360-006A	800B		7/12/2005 11:00:00 AM	7/13/2005
0507360-006B	800B		7/12/2005 11:00:00 AM	7/13/2005
0507360-007A	800C		7/12/2005 11:20:00 AM	7/13/2005
0507360-007B	800C		7/12/2005 11:20:00 AM	7/13/2005
0507360-008A	800D		7/12/2005 11:50:00 AM	7/13/2005
0507360-008B	800D		7/12/2005 11:50:00 AM	7/13/2005
0507360-009A	802A		7/12/2005 12:30:00 PM	7/13/2005
0507360-009B	802A		7/12/2005 12:30:00 PM	7/13/2005
0507360-010A	361A		7/12/2005 1:10:00 PM	7/13/2005
0507360-011A	361B		7/12/2005 2:00:00 PM	7/13/2005
0507360-012A	361C		7/12/2005 2:10:00 PM	7/13/2005
0507360-013A	361D		7/12/2005 2:20:00 PM	7/13/2005
0507360-013B	361D		7/12/2005 2:20:00 PM	7/13/2005

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Date Reported: July 20, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507360
Project: 3205050441.03, NAVFAC, St. Sheridan
Lab ID: 0507360-001

Client Sample ID: 801A
Collection Date: 7/12/2005 9:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/15/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/18/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/18/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/18/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/18/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/18/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/18/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/18/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/18/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/18/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/18/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/18/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/18/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/18/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/18/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/18/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/18/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/14/2005**		Analyst: **MP**
Benzene	ND	0.0049		mg/Kg-dry	1	7/15/2005
Toluene	ND	0.0049		mg/Kg-dry	1	7/15/2005
Ethylbenzene	ND	0.0049		mg/Kg-dry	1	7/15/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/15/2005
Percent Moisture	**D2974**			Prep Date: **7/18/2005**		Analyst: **RW**
Percent Moisture	15.6	0.01	*	wt%	1	7/19/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 20, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507360
Project: 3205050441.03, NAVFAC, St. Sheridan
Lab ID: 0507360-002

Client Sample ID: 801B
Collection Date: 7/12/2005 9:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/15/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	7/18/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	7/18/2005
Anthracene	ND	0.027		mg/Kg-dry	1	7/18/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	7/18/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	7/18/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	7/18/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	7/18/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	7/18/2005
Chrysene	ND	0.027		mg/Kg-dry	1	7/18/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	7/18/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	7/18/2005
Fluorene	ND	0.027		mg/Kg-dry	1	7/18/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	7/18/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	7/18/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	7/18/2005
Pyrene	ND	0.027		mg/Kg-dry	1	7/18/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/14/2005**		Analyst: **MP**
Benzene	ND	0.0043		mg/Kg-dry	1	7/16/2005
Toluene	ND	0.0043		mg/Kg-dry	1	7/16/2005
Ethylbenzene	ND	0.0043		mg/Kg-dry	1	7/16/2005
Xylenes, Total	ND	0.013		mg/Kg-dry	1	7/16/2005
Percent Moisture	**D2974**			Prep Date: **7/18/2005**		Analyst: **RW**
Percent Moisture	10.2	0.01	*	wt%	1	7/19/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 20, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507360
Project: 3205050441.03, NAVFAC, St. Sheridan
Lab ID: 0507360-003

Client Sample ID: 801C
Collection Date: 7/12/2005 9:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/15/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/15/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/15/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/15/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/15/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/15/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/15/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/15/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/15/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/15/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/15/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/15/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/15/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/15/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/15/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/15/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/15/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/14/2005**		Analyst: **MP**
Benzene	ND	0.0023		mg/Kg-dry	1	7/16/2005
Toluene	ND	0.0023		mg/Kg-dry	1	7/16/2005
Ethylbenzene	ND	0.0023		mg/Kg-dry	1	7/16/2005
Xylenes, Total	ND	0.0071		mg/Kg-dry	1	7/16/2005
Percent Moisture	**D2974**			Prep Date: **7/18/2005**		Analyst: **RW**
Percent Moisture	13.8	0.01	*	wt%	1	7/19/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
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HT - Sample received past holding time
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R - RPD outside accepted recovery limits
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Date Reported: July 20, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507360
Project: 3205050441.03, NAVFAC, St. Sheridan
Lab ID: 0507360-004

Client Sample ID: 801D
Collection Date: 7/12/2005 10:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/15/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/15/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/15/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/15/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/15/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/15/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	7/15/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/15/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/15/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/15/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/15/2005
Pyrene	ND	0.028		mg/Kg-dry	1	7/15/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/14/2005**		Analyst: **MP**
Benzene	ND	0.0056		mg/Kg-dry	1	7/16/2005
Toluene	ND	0.0056		mg/Kg-dry	1	7/16/2005
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	7/16/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	7/16/2005
Percent Moisture	**D2974**			Prep Date: **7/18/2005**		Analyst: **RW**
Percent Moisture	13.7	0.01	*	wt%	1	7/19/2005

Qualifiers:
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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R - RPD outside accepted recovery limits
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H - Holding time exceeded

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Date Reported: July 20, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507360
Project: 3205050441.03, NAVFAC, St. Sheridan
Lab ID: 0507360-005

Client Sample ID: 800A
Collection Date: 7/12/2005 10:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/15/2005**		Analyst: **VS**
Acenaphthene	ND	0.032		mg/Kg-dry	1	7/15/2005
Acenaphthylene	ND	0.032		mg/Kg-dry	1	7/15/2005
Anthracene	ND	0.032		mg/Kg-dry	1	7/15/2005
Benz(a)anthracene	ND	0.032		mg/Kg-dry	1	7/15/2005
Benzo(a)pyrene	ND	0.032		mg/Kg-dry	1	7/15/2005
Benzo(b)fluoranthene	ND	0.032		mg/Kg-dry	1	7/15/2005
Benzo(g,h,i)perylene	ND	0.032		mg/Kg-dry	1	7/15/2005
Benzo(k)fluoranthene	ND	0.032		mg/Kg-dry	1	7/15/2005
Chrysene	ND	0.032		mg/Kg-dry	1	7/15/2005
Dibenz(a,h)anthracene	ND	0.032		mg/Kg-dry	1	7/15/2005
Fluoranthene	ND	0.032		mg/Kg-dry	1	7/15/2005
Fluorene	ND	0.032		mg/Kg-dry	1	7/15/2005
Indeno(1,2,3-cd)pyrene	ND	0.032		mg/Kg-dry	1	7/15/2005
Naphthalene	ND	0.032		mg/Kg-dry	1	7/15/2005
Phenanthrene	ND	0.032		mg/Kg-dry	1	7/15/2005
Pyrene	ND	0.032		mg/Kg-dry	1	7/15/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/14/2005**		Analyst: **MP**
Benzene	ND	0.0059		mg/Kg-dry	1	7/16/2005
Toluene	ND	0.0059		mg/Kg-dry	1	7/16/2005
Ethylbenzene	ND	0.0059		mg/Kg-dry	1	7/16/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	7/16/2005
Percent Moisture	**D2974**			Prep Date: **7/18/2005**		Analyst: **RW**
Percent Moisture	24.1	0.01	*	wt%	1	7/19/2005

Qualifiers:

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- J - Analyte detected below quanititation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- * - Non-accredited parameter
- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

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Date Reported: July 20, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507360
Project: 3205050441.03, NAVFAC, St. Sheridan
Lab ID: 0507360-006

Client Sample ID: 800B
Collection Date: 7/12/2005 11:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/15/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/18/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/18/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/18/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/18/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/18/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/18/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/18/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/18/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/18/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/18/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/18/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/18/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/18/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/18/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/18/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/18/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/14/2005**		Analyst: **MP**
Benzene	ND	0.0054		mg/Kg-dry	1	7/16/2005
Toluene	ND	0.0054		mg/Kg-dry	1	7/16/2005
Ethylbenzene	ND	0.0054		mg/Kg-dry	1	7/16/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	7/16/2005
Percent Moisture	**D2974**			Prep Date: **7/18/2005**		Analyst: **RW**
Percent Moisture	15.0	0.01	*	wt%	1	7/19/2005

Qualifiers:

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J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

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E - Value above quantitation range
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Date Reported: July 20, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507360
Project: 3205050441.03, NAVFAC, St. Sheridan
Lab ID: 0507360-007

Client Sample ID: 800C
Collection Date: 7/12/2005 11:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/15/2005**		Analyst: **VS**
Acenaphthene	0.067	0.031		mg/Kg-dry	1	7/15/2005
Acenaphthylene	ND	0.031		mg/Kg-dry	1	7/15/2005
Anthracene	ND	0.031		mg/Kg-dry	1	7/15/2005
Benz(a)anthracene	ND	0.031		mg/Kg-dry	1	7/15/2005
Benzo(a)pyrene	ND	0.031		mg/Kg-dry	1	7/15/2005
Benzo(b)fluoranthene	ND	0.031		mg/Kg-dry	1	7/15/2005
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	7/15/2005
Benzo(k)fluoranthene	ND	0.031		mg/Kg-dry	1	7/15/2005
Chrysene	ND	0.031		mg/Kg-dry	1	7/15/2005
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	7/15/2005
Fluoranthene	ND	0.031		mg/Kg-dry	1	7/15/2005
Fluorene	0.1	0.031		mg/Kg-dry	1	7/15/2005
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	7/15/2005
Naphthalene	0.11	0.031		mg/Kg-dry	1	7/15/2005
Phenanthrene	0.1	0.031		mg/Kg-dry	1	7/15/2005
Pyrene	ND	0.031		mg/Kg-dry	1	7/15/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/14/2005**		Analyst: **MP**
Benzene	ND	0.0052		mg/Kg-dry	1	7/16/2005
Toluene	ND	0.0052		mg/Kg-dry	1	7/16/2005
Ethylbenzene	ND	0.0052		mg/Kg-dry	1	7/16/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	7/16/2005
Percent Moisture	**D2974**			Prep Date: **7/18/2005**		Analyst: **RW**
Percent Moisture	19.4	0.01	*	wt%	1	7/19/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 20, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507360
Project: 3205050441.03, NAVFAC, St. Sheridan
Lab ID: 0507360-008

Client Sample ID: 800D
Collection Date: 7/12/2005 11:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/15/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/15/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/15/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/15/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/15/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/15/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	7/15/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/15/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/15/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/15/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/15/2005
Pyrene	ND	0.028		mg/Kg-dry	1	7/15/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/14/2005**		Analyst: **MP**
Benzene	ND	0.0057		mg/Kg-dry	1	7/16/2005
Toluene	ND	0.0057		mg/Kg-dry	1	7/16/2005
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	7/16/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	7/16/2005
Percent Moisture	**D2974**			Prep Date: **7/18/2005**		Analyst: **RW**
Percent Moisture	12.0	0.01	*	wt%	1	7/19/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 20, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507360
Project: 3205050441.03, NAVFAC, St. Sheridan
Lab ID: 0507360-009

Client Sample ID: 802A
Collection Date: 7/12/2005 12:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/15/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/15/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/15/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/15/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/15/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/15/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/15/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/15/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/15/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/15/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/15/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/15/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/15/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/15/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/15/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/15/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/15/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/14/2005**		Analyst: **MP**
Benzene	ND	0.0047		mg/Kg-dry	1	7/16/2005
Toluene	ND	0.0047		mg/Kg-dry	1	7/16/2005
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	7/16/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/16/2005
Percent Moisture	**D2974**			Prep Date: **7/18/2005**		Analyst: **RW**
Percent Moisture	12.3	0.01	*	wt%	1	7/19/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 20, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507360
Project: 3205050441.03, NAVFAC, St. Sheridan
Lab ID: 0507360-010

Client Sample ID: 361A
Collection Date: 7/12/2005 1:10:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**		Prep Date: **7/15/2005**		Analyst: **VS**
Acenaphthene	0.036	0.028		mg/Kg-dry	1	7/15/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/15/2005
Anthracene	0.17	0.028		mg/Kg-dry	1	7/15/2005
Benz(a)anthracene	0.49	0.27		mg/Kg-dry	10	7/18/2005
Benzo(a)pyrene	0.48	0.27		mg/Kg-dry	10	7/18/2005
Benzo(b)fluoranthene	0.57	0.27		mg/Kg-dry	10	7/18/2005
Benzo(g,h,i)perylene	0.17	0.028		mg/Kg-dry	1	7/15/2005
Benzo(k)fluoranthene	0.35	0.27		mg/Kg-dry	10	7/18/2005
Chrysene	0.59	0.27		mg/Kg-dry	10	7/18/2005
Dibenz(a,h)anthracene	0.059	0.028		mg/Kg-dry	1	7/15/2005
Fluoranthene	0.96	0.27		mg/Kg-dry	10	7/18/2005
Fluorene	0.04	0.028		mg/Kg-dry	1	7/15/2005
Indeno(1,2,3-cd)pyrene	0.15	0.028		mg/Kg-dry	1	7/15/2005
Naphthalene	0.13	0.028		mg/Kg-dry	1	7/15/2005
Phenanthrene	0.99	0.27		mg/Kg-dry	10	7/18/2005
Pyrene	0.9	0.27		mg/Kg-dry	10	7/18/2005
Percent Moisture		**D2974**		Prep Date: **7/18/2005**		Analyst: **RW**
Percent Moisture	9.89	0.01	*	wt%	1	7/19/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 20, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507360
Project: 3205050441.03, NAVFAC, St. Sheridan
Lab ID: 0507360-011

Client Sample ID: 361B
Collection Date: 7/12/2005 2:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/15/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/15/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/15/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/15/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/15/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/15/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/15/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	7/15/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/15/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/15/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/15/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/15/2005
Pyrene	ND	0.028		mg/Kg-dry	1	7/15/2005
Percent Moisture	**D2974**			Prep Date: **7/18/2005**		Analyst: **RW**
Percent Moisture	10.2	0.01	*	wt%	1	7/19/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 20, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507360
Project: 3205050441.03, NAVFAC, St. Sheridan
Lab ID: 0507360-012

Client Sample ID: 361C
Collection Date: 7/12/2005 2:10:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/15/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/18/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/18/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/18/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/18/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/18/2005
Benzo(b)fluoranthene	0.032	0.029		mg/Kg-dry	1	7/18/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/18/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/18/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/18/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/18/2005
Fluoranthene	0.05	0.029		mg/Kg-dry	1	7/18/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/18/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/18/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/18/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/18/2005
Pyrene	0.041	0.029		mg/Kg-dry	1	7/18/2005
Percent Moisture	**D2974**			Prep Date: **7/18/2005**		Analyst: **RW**
Percent Moisture	13.6	0.01	*	wt%	1	7/19/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 20, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507360
Project: 3205050441.03, NAVFAC, St. Sheridan
Lab ID: 0507360-013

Client Sample ID: 361D
Collection Date: 7/12/2005 2:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/15/2005**		Analyst: **VS**
Acenaphthene	ND	0.047		mg/Kg-dry	10	7/18/2005
Acenaphthylene	ND	0.047		mg/Kg-dry	10	7/18/2005
Anthracene	0.052	0.047		mg/Kg-dry	10	7/18/2005
Benz(a)anthracene	0.19	0.047		mg/Kg-dry	10	7/18/2005
Benzo(a)pyrene	0.16	0.047		mg/Kg-dry	10	7/18/2005
Benzo(b)fluoranthene	0.15	0.047		mg/Kg-dry	10	7/18/2005
Benzo(g,h,i)perylene	0.061	0.047		mg/Kg-dry	10	7/18/2005
Benzo(k)fluoranthene	0.16	0.047		mg/Kg-dry	10	7/18/2005
Chrysene	0.22	0.047		mg/Kg-dry	10	7/18/2005
Dibenz(a,h)anthracene	ND	0.047		mg/Kg-dry	10	7/18/2005
Fluoranthene	0.38	0.047		mg/Kg-dry	10	7/18/2005
Fluorene	0.094	0.047		mg/Kg-dry	10	7/18/2005
Indeno(1,2,3-cd)pyrene	0.057	0.047		mg/Kg-dry	10	7/18/2005
Naphthalene	0.79	0.047		mg/Kg-dry	10	7/18/2005
Phenanthrene	0.26	0.047		mg/Kg-dry	10	7/18/2005
Pyrene	0.33	0.047		mg/Kg-dry	10	7/18/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/14/2005**		Analyst: **MP**
Benzene	ND	0.0057		mg/Kg-dry	1	7/16/2005
Toluene	0.0065	0.0057		mg/Kg-dry	1	7/16/2005
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	7/16/2005
Xylenes, Total	0.034	0.017		mg/Kg-dry	1	7/16/2005
Percent Moisture	**D2974**			Prep Date: **7/18/2005**		Analyst: **RW**
Percent Moisture	30.0	0.01	*	wt%	1	7/19/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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CHAIN OF CUSTODY RECORD

№: 810330 Page: 1 of 1

Company: MACTEC E+C
Project Number: 3205050441.03 Client Tracking No.:
Project Name: NAVFAC
Location/Address: Ft. Sheridan, IL
Sampler(s): Andrew Hastings
Report To: Dennis Nagg Phone: 773-693-6038
QC Level: 1 X 2 ___ 3 ___ 4 ___ Fax: 773-693-6039
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other: TACO

P.O. No.: 39,263
Quote No.:

Turn Around: Standard
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	BTEX	PNA	Remarks	Lab No.
801A	7/12/05	9:00	Soil		X		4	X	X		001
801B	↓	9:20	↓		↓		4	X	X		002
801C		9:45					4	X	X		003
801D		10:00					4	X	X		004
800A		10:30					4	X	X		005
800B		11:00					4	X	X		006
800C		11:20					4	X	X		007
800D		11:50					4	X	X		008
802A		12:30					4	X	X		009
361A		13:10					1		X		010
361B		14:00					1		X		011
361C		14:10					1		X		012
361D	↓	14:20	↓		↓		4	X	X	* No 2nd NaSO4 vial so filled a 2nd 4oz Jar to supplement.	013

Relinquished by: (Signature) Andrew C. Hastings	Date/Time: 7/12/05 17:30	Laboratory Use: Sample Verification: Work Order No. 1050[illegible]
Received by: (Signature) Saul Sierra	Date/Time: 7/13/05 10	Container OK: Yes ✓ No
Relinquished by: (Signature) [illegible]	Date/Time: 7/13/05 9[illegible]	Samples Leaking: Yes No ✓
Received for lab by: (Signature) Jesus Cat	Date/Time: 7/13/05 13[illegible]	Refrigerated (Temp): 3 Yes ✓ No
Relinquished by: (Signature)	Date/Time:	Sample Labels Match Sample ID: Yes ✓ No

Preservation Code:
A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC

Date and Time Received: 07/13/2005

Work Order Numbe 0507360

Received by: JC

Checklist completed by: Jesus Cant (Signature) 7/13/05 (Date)

Reviewed by: cc (Initials) 7/20/05 (Date)

Matrix

Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 3 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

STAT Analysis Corporation
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July 22, 2005

Checked & OK
DEN 8/18/05

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205050441.01, Ft Sheridan-NAVFAC STAT Project No: 0507416

Dear Dennis Nagg:

STAT Analysis received 22 samples for the referenced project on 7/14/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab Order: 0507416

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0507416-001A	666A		7/13/2005 7:30:00 AM	7/14/2005
0507416-001B	666A		7/13/2005 7:30:00 AM	7/14/2005
0507416-002A	657A		7/13/2005 8:00:00 AM	7/14/2005
0507416-002B	657A		7/13/2005 8:00:00 AM	7/14/2005
0507416-003A	652A		7/13/2005 8:15:00 AM	7/14/2005
0507416-003B	652A		7/13/2005 8:15:00 AM	7/14/2005
0507416-004A	806A		7/13/2005 8:45:00 AM	7/14/2005
0507416-004B	806A		7/13/2005 8:45:00 AM	7/14/2005
0507416-005A	806B		7/13/2005 9:00:00 AM	7/14/2005
0507416-005B	806B		7/13/2005 9:00:00 AM	7/14/2005
0507416-006A	806C		7/13/2005 9:20:00 AM	7/14/2005
0507416-006B	806C		7/13/2005 9:20:00 AM	7/14/2005
0507416-007A	806D		7/13/2005 9:45:00 AM	7/14/2005
0507416-007B	806D		7/13/2005 9:45:00 AM	7/14/2005
0507416-008A	802B		7/13/2005 10:20:00 AM	7/14/2005
0507416-008B	802B		7/13/2005 10:20:00 AM	7/14/2005
0507416-009A	802C		7/13/2005 10:45:00 AM	7/14/2005
0507416-009B	802C		7/13/2005 10:45:00 AM	7/14/2005
0507416-010A	802D		7/13/2005 11:00:00 AM	7/14/2005
0507416-010B	802D		7/13/2005 11:00:00 AM	7/14/2005
0507416-011A	803A		7/13/2005 11:45:00 AM	7/14/2005
0507416-011B	803A		7/13/2005 11:45:00 AM	7/14/2005
0507416-012A	803B		7/13/2005 12:10:00 PM	7/14/2005
0507416-012B	803B		7/13/2005 12:10:00 PM	7/14/2005
0507416-013A	803C		7/13/2005 12:30:00 PM	7/14/2005
0507416-013B	803C		7/13/2005 12:30:00 PM	7/14/2005
0507416-014A	803D		7/13/2005 1:00:00 PM	7/14/2005
0507416-014B	803D		7/13/2005 1:00:00 PM	7/14/2005
0507416-015A	804A		7/13/2005 1:45:00 PM	7/14/2005
0507416-015B	804A		7/13/2005 1:45:00 PM	7/14/2005
0507416-016A	804B		7/13/2005 2:00:00 PM	7/14/2005
0507416-016B	804B		7/13/2005 2:00:00 PM	7/14/2005
0507416-017A	804C		7/13/2005 2:30:00 PM	7/14/2005
0507416-017B	804C		7/13/2005 2:30:00 PM	7/14/2005
0507416-018A	804D		7/13/2005 3:00:00 PM	7/14/2005
0507416-018B	804D		7/13/2005 3:00:00 PM	7/14/2005
0507416-019A	805A		7/13/2005 3:30:00 PM	7/14/2005
0507416-019B	805A		7/13/2005 3:30:00 PM	7/14/2005

Client:	MACTEC Engineering and Consulting, Inc.
Project:	3205050441.01, Ft Sheridan-NAVFAC
Lab Order:	0507416

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0507416-020A	805B		7/13/2005 4:00:00 PM	7/14/2005
0507416-020B	805B		7/13/2005 4:00:00 PM	7/14/2005
0507416-021A	805C		7/13/2005 4:20:00 PM	7/14/2005
0507416-021B	805C		7/13/2005 4:20:00 PM	7/14/2005
0507416-022A	805D		7/13/2005 5:00:00 PM	7/14/2005
0507416-022B	805D		7/13/2005 5:00:00 PM	7/14/2005

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-001

Client Sample ID: 666A
Collection Date: 7/13/2005 7:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	0.042	0.029		mg/Kg-dry	1	7/20/2005
Acenaphthylene	0.04	0.029		mg/Kg-dry	1	7/20/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/20/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/20/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/20/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/20/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/20/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/20/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/20/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/20/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/20/2005
Fluorene	0.11	0.029		mg/Kg-dry	1	7/20/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/20/2005
Naphthalene	0.16	0.029		mg/Kg-dry	1	7/20/2005
Phenanthrene	0.21	0.029		mg/Kg-dry	1	7/20/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/20/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0045		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.0045		mg/Kg-dry	1	7/19/2005
Ethylbenzene	0.0052	0.0045		mg/Kg-dry	1	7/19/2005
Xylenes, Total	0.069	0.014		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	13.6	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-002

Client Sample ID: 657A
Collection Date: 7/13/2005 8:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	7/20/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	7/20/2005
Anthracene	ND	0.03		mg/Kg-dry	1	7/20/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	7/20/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	7/20/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	7/20/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	7/20/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	7/20/2005
Chrysene	ND	0.03		mg/Kg-dry	1	7/20/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	7/20/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	7/20/2005
Fluorene	ND	0.03		mg/Kg-dry	1	7/20/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	7/20/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	7/20/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	7/20/2005
Pyrene	ND	0.03		mg/Kg-dry	1	7/20/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0053		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.0053		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0053		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	16.8	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-003

Client Sample ID: 652A
Collection Date: 7/13/2005 8:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	7/20/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	7/20/2005
Anthracene	ND	0.03		mg/Kg-dry	1	7/20/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	7/20/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	7/20/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	7/20/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	7/20/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	7/20/2005
Chrysene	ND	0.03		mg/Kg-dry	1	7/20/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	7/20/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	7/20/2005
Fluorene	ND	0.03		mg/Kg-dry	1	7/20/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	7/20/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	7/20/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	7/20/2005
Pyrene	ND	0.03		mg/Kg-dry	1	7/20/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0051		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.0051		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	17.1	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-004

Client Sample ID: 806A
Collection Date: 7/13/2005 8:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/19/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/19/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/19/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/19/2005
Pyrene	ND	0.028		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0047		mg/Kg-dry	1	7/19/2005
Toluene	0.0051	0.0047		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	14.5	0.01	*	wt%	1	7/22/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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R - RPD outside accepted recovery limits
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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-005

Client Sample ID: 806B
Collection Date: 7/13/2005 9:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/19/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0047		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.0047		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	13.4	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-006

Client Sample ID: 806C
Collection Date: 7/13/2005 9:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/19/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0048		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.0048		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	13.4	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-007

Client Sample ID: 806D
Collection Date: 7/13/2005 9:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/19/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0043		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.0043		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0043		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.013		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	13.3	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-008

Client Sample ID: 802B
Collection Date: 7/13/2005 10:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**		Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.027		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.027		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	7/19/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.027		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	7/19/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	7/19/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	7/19/2005
Pyrene	ND	0.027		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS		**SW5035/8260B**		Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0042		mg/Kg-dry	1	7/19/2005
Toluene	0.0046	0.0042		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0042		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.013		mg/Kg-dry	1	7/19/2005
Percent Moisture		**D2974**		Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	12.7	0.01	*	wt%	1	7/22/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-009

Client Sample ID: 802C
Collection Date: 7/13/2005 10:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/19/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0046		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.0046		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	12.9	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-010

Client Sample ID: 802D
Collection Date: 7/13/2005 11:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/19/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0047		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.0047		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	15.1	0.01	*	wt%	1	7/22/2005

Qualifiers:
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J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-011

Client Sample ID: 803A
Collection Date: 7/13/2005 11:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.031		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.031		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.031		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.031		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.031		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.031		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.031		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.031		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	7/19/2005
Fluoranthene	ND	0.031		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.031		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	7/19/2005
Naphthalene	ND	0.031		mg/Kg-dry	1	7/19/2005
Phenanthrene	ND	0.031		mg/Kg-dry	1	7/19/2005
Pyrene	ND	0.031		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0052		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.0052		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0052		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	20.5	0.01	*	wt%	1	7/22/2005

Qualifiers:
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-012

Client Sample ID: 803B
Collection Date: 7/13/2005 12:10:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.027		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.027		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	7/19/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.027		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	7/19/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	7/19/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	7/19/2005
Pyrene	ND	0.027		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0045		mg/Kg-dry	1	7/20/2005
Toluene	ND	0.0045		mg/Kg-dry	1	7/20/2005
Ethylbenzene	ND	0.0045		mg/Kg-dry	1	7/20/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/20/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	12.5	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-013

Client Sample ID: 803C
Collection Date: 7/13/2005 12:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	7/20/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	7/20/2005
Anthracene	ND	0.03		mg/Kg-dry	1	7/20/2005
Benz(a)anthracene	0.037	0.03		mg/Kg-dry	1	7/20/2005
Benzo(a)pyrene	0.039	0.03		mg/Kg-dry	1	7/20/2005
Benzo(b)fluoranthene	0.041	0.03		mg/Kg-dry	1	7/20/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	7/20/2005
Benzo(k)fluoranthene	0.03	0.03		mg/Kg-dry	1	7/20/2005
Chrysene	0.042	0.03		mg/Kg-dry	1	7/20/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	7/20/2005
Fluoranthene	0.073	0.03		mg/Kg-dry	1	7/20/2005
Fluorene	ND	0.03		mg/Kg-dry	1	7/20/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	7/20/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	7/20/2005
Phenanthrene	0.032	0.03		mg/Kg-dry	1	7/20/2005
Pyrene	0.065	0.03		mg/Kg-dry	1	7/20/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.004		mg/Kg-dry	1	7/20/2005
Toluene	ND	0.004		mg/Kg-dry	1	7/20/2005
Ethylbenzene	ND	0.004		mg/Kg-dry	1	7/20/2005
Xylenes, Total	ND	0.012		mg/Kg-dry	1	7/20/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	19.5	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-014

Client Sample ID: 803D
Collection Date: 7/13/2005 1:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/19/2005
Fluoranthene	0.042	0.028		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/19/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/19/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/19/2005
Pyrene	0.038	0.028		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0047		mg/Kg-dry	1	7/20/2005
Toluene	ND	0.0047		mg/Kg-dry	1	7/20/2005
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	7/20/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/20/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	13.0	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-015

Client Sample ID: 804A
Collection Date: 7/13/2005 1:45:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.03		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.03		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	7/19/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.03		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	7/19/2005
Naphthalene	0.033	0.03		mg/Kg-dry	1	7/19/2005
Phenanthrene	0.051	0.03		mg/Kg-dry	1	7/19/2005
Pyrene	ND	0.03		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0062		mg/Kg-dry	1	7/20/2005
Toluene	ND	0.0062		mg/Kg-dry	1	7/20/2005
Ethylbenzene	ND	0.0062		mg/Kg-dry	1	7/20/2005
Xylenes, Total	ND	0.018		mg/Kg-dry	1	7/20/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	17.9	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-016

Client Sample ID: 804B
Collection Date: 7/13/2005 2:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/20/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/20/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/20/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/20/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/20/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/20/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/20/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/20/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/20/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/20/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/20/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/20/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/20/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/20/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/20/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/20/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0048		mg/Kg-dry	1	7/20/2005
Toluene	ND	0.0048		mg/Kg-dry	1	7/20/2005
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	7/20/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	7/20/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	13.1	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-017

Client Sample ID: 804C
Collection Date: 7/13/2005 2:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.031		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.031		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.031		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.031		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.031		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.031		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.031		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.031		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	7/19/2005
Fluoranthene	ND	0.031		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.031		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	7/19/2005
Naphthalene	ND	0.031		mg/Kg-dry	1	7/19/2005
Phenanthrene	ND	0.031		mg/Kg-dry	1	7/19/2005
Pyrene	ND	0.031		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **PS**
Benzene	ND	0.0049		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.0049		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0049		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	18.5	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-018

Client Sample ID: 804D
Collection Date: 7/13/2005 3:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/19/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/19/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/19/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/19/2005
Pyrene	ND	0.028		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **PS**
Benzene	ND	0.0044		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.0044		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0044		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.013		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	15.0	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-019

Client Sample ID: 805A
Collection Date: 7/13/2005 3:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/19/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **PS**
Benzene	ND	0.0048		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.0048		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	15.2	0.01	*	wt%	1	7/22/2005

Qualifiers:
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- HT - Sample received past holding time
- * - Non-accredited parameter
- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-020

Client Sample ID: 805B
Collection Date: 7/13/2005 4:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/19/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/19/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/19/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/19/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/19/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/19/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/19/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/19/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/19/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **PS**
Benzene	ND	0.0048		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.0048		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	15.0	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-021

Client Sample ID: 805C
Collection Date: 7/13/2005 4:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.031		mg/Kg-dry	1	7/20/2005
Acenaphthylene	ND	0.031		mg/Kg-dry	1	7/20/2005
Anthracene	ND	0.031		mg/Kg-dry	1	7/20/2005
Benz(a)anthracene	ND	0.031		mg/Kg-dry	1	7/20/2005
Benzo(a)pyrene	ND	0.031		mg/Kg-dry	1	7/20/2005
Benzo(b)fluoranthene	ND	0.031		mg/Kg-dry	1	7/20/2005
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	7/20/2005
Benzo(k)fluoranthene	ND	0.031		mg/Kg-dry	1	7/20/2005
Chrysene	ND	0.031		mg/Kg-dry	1	7/20/2005
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	7/20/2005
Fluoranthene	ND	0.031		mg/Kg-dry	1	7/20/2005
Fluorene	ND	0.031		mg/Kg-dry	1	7/20/2005
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	7/20/2005
Naphthalene	ND	0.031		mg/Kg-dry	1	7/20/2005
Phenanthrene	ND	0.031		mg/Kg-dry	1	7/20/2005
Pyrene	ND	0.031		mg/Kg-dry	1	7/20/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **PS**
Benzene	ND	0.005		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.005		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.005		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	18.3	0.01	*	wt%	1	7/22/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 22, 2005
Date Printed: July 22, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507416
Project: 3205050441.01, Ft Sheridan-NAVFAC
Lab ID: 0507416-022

Client Sample ID: 805D
Collection Date: 7/13/2005 5:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/19/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/20/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/20/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/20/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/20/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/20/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/20/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/20/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/20/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/20/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/20/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	7/20/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/20/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/20/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/20/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/20/2005
Pyrene	ND	0.028		mg/Kg-dry	1	7/20/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **PS**
Benzene	ND	0.0044		mg/Kg-dry	1	7/19/2005
Toluene	ND	0.0044		mg/Kg-dry	1	7/19/2005
Ethylbenzene	ND	0.0044		mg/Kg-dry	1	7/19/2005
Xylenes, Total	ND	0.013		mg/Kg-dry	1	7/19/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	13.4	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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e-mail address: STATInfo@STATAnalysis.com AIHA 10248, NVLAP 101202-0, NEALP 100445

CHAIN OF CUSTODY RECORD

№: 809239

Company: MACTEC E&C
Project Number: 320505041.01 Client Tracking No.:
Project Name: Ft. Sheridan - NAVFAC
Location Address: Ft. Sheridan, IL
Sampler(s): Andrew Hastings
Report To: Dennis Nagy Phone: 773-693-6030
QC Level: 1 ____ 2 ____ 3 ____ 4 ____ Fax: 773-693-6039
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other: ____

P.O. No.:
Quote No.:

Turn Around: Standard
Results Needed: am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	BTEX	PNA	Remarks	Lab No.
656A	7/13/05	7:30	Soil		X		4	X	X		001
657A		8:00						X	X		002
652A		8:15						X	X		003
806A		8:45						X	X		004
806B		9:00						X	X		005
806C		9:20						X	X		006
806D		9:45						X	X		007
802B		10:20						X	X		008
802C		10:45						X	X		009
802D		11:00						X	X		010
803A		11:45						X	X		011
803B		12:10						X	X		012
803C		12:30						X	X		013
803D		13:00						X	X		014
804A		13:45						X	X		015
804B		14:00						X	X		016
804C		14:30						X	X		017
804D		15:00						X	X		018
805A		15:30						X	X		019
805B		16:00						X	X		020

Relinquished by: (Signature) Andrew E. Hastings	19:00	Date/Time: 7/13/05
Received by: (Signature) [illegible]		Date/Time: 7-14-05 2:1
Relinquished by: (Signature) [illegible]		Date/Time: 7-14-05
Received for lab by: (Signature) [illegible]		Date/Time: 7/14/05 17
Relinquished by: (Signature)		Date/Time:

Laboratory Use: **Sample Verification:**

	Yes	No
Container OK?	X	
Samples Leaking		X
Refrigerated (Temp: 5 °C)	X	
Sample Labels Match Sample ID	X	

Work Order No.: 0507416

Preservation Code:
A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore

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AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

NVLAP®

Nº:

CHAIN OF CUSTODY RECORD

Page : 2 of 2

Client Name: MACTEC E+C
Project Number: 320505 0441.01
Project Name: Ft. Sheridan – NAVFAC
Location/Address: Ft. Sheridan, IL
Samplers: Andrew Hastings

TYPE OF ANALYSES

Turnaround Time: Standard (days)
Results Needed: / / am/pm

Client Sample No.:	Sample Description	Date Taken	Time Taken	Comp.	Grab	No. of Containers	BTEX	PNA	Remarks	Lab No.
805C	Soil	7/13/05	16:20		X	4	X	X		021
805D	Soil	7/13/05	17:00		X	4	X	X		022
									0507416	

Relinquished by: (Signature) Andrew E. Hastings	Date/Time: 7/13/05 19:00	Lab. User:	Sample Verification
Received by: (Signature) [signature]	Date/Time: 7-14-05 2:13	- Container OK	Yes ☒ No ☐
Relinquished by: (Signature) [signature]	Date/Time: 7-14-05 9:31	- Samples Leaking	Yes ☐ No ☒
Received for lab by: (Signature) [signature]	Date/Time: 7/14/05 1731	- Refrigerated (Temp. 5 °C)	Yes ☒ No ☐
Relinquished by: (Signature)	Date/Time:	- Sample Labels Match Sample ID	Yes ☒ No ☐

Contact Information:
Phone Number:
Fax Number:
Attention:
Other Contact:

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC | Date and Time Received: 07/14/2005

Work Order Numbe 0507416 | Received by: JC

Checklist completed by: Jesus Cant (Signature) 7/14/05 (Date) | Reviewed by: cc (Initials) 7/22/05 (Date)

Matrix | Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature	5 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐	
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☐		

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

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July 25, 2005

Checked & OK
DEN 8/18/05

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205-05-0441.01, Ft Sheridan-NAVFAC STAT Project No: 0507475

Dear Dennis Nagg:

STAT Analysis received 25 samples for the referenced project on 7/15/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab Order: 0507475

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0507475-001A	368A		7/14/2005 7:45:00 AM	7/15/2005
0507475-002A	368B		7/14/2005 8:20:00 AM	7/15/2005
0507475-003A	389		7/14/2005 8:53:00 AM	7/15/2005
0507475-004A	390		7/14/2005 9:00:00 AM	7/15/2005
0507475-005A	368-SS		7/14/2005 8:15:00 AM	7/15/2005
0507475-006A	384-A		7/14/2005 8:50:00 AM	7/15/2005
0507475-007A	384-B		7/14/2005 9:09:00 AM	7/15/2005
0507475-008A	369A		7/14/2005 11:15:00 AM	7/15/2005
0507475-008B	369A		7/14/2005 11:15:00 AM	7/15/2005
0507475-009A	388		7/14/2005 8:45:00 AM	7/15/2005
0507475-010A	368C		7/14/2005 9:25:00 AM	7/15/2005
0507475-010B	368C		7/14/2005 9:25:00 AM	7/15/2005
0507475-011A	368D		7/14/2005 9:50:00 AM	7/15/2005
0507475-011B	368D		7/14/2005 9:50:00 AM	7/15/2005
0507475-012A	368F		7/14/2005 11:00:00 AM	7/15/2005
0507475-013A	368G		7/14/2005 11:20:00 AM	7/15/2005
0507475-014A	368H		7/14/2005 11:30:00 AM	7/15/2005
0507475-014B	368H		7/14/2005 11:30:00 AM	7/15/2005
0507475-015A	368E		7/14/2005 10:40:00 AM	7/15/2005
0507475-015B	368E		7/14/2005 10:40:00 AM	7/15/2005
0507475-016A	336A		7/14/2005 12:00:00 PM	7/15/2005
0507475-016B	336A		7/14/2005 12:00:00 PM	7/15/2005
0507475-017A	336B		7/14/2005 1:15:00 AM	7/15/2005
0507475-017B	336B		7/14/2005 1:15:00 AM	7/15/2005
0507475-018A	336C		7/14/2005 12:25:00 PM	7/15/2005
0507475-018B	336C		7/14/2005 12:25:00 PM	7/15/2005
0507475-019A	VES#3-A		7/14/2005 12:50:00 PM	7/15/2005
0507475-020A	VES#3-B		7/14/2005 1:00:00 PM	7/15/2005
0507475-021A	VES#3C		7/14/2005 1:13:00 PM	7/15/2005
0507475-022A	VES#3D		7/14/2005 1:40:00 PM	7/15/2005
0507475-023A	VES#3-E		7/14/2005 1:55:00 PM	7/15/2005
0507475-023B	VES#3-E		7/14/2005 1:55:00 PM	7/15/2005
0507475-024A	VES#7A		7/14/2005 2:30:00 PM	7/15/2005
0507475-025A	VES#7B		7/14/2005 2:55:00 PM	7/15/2005

STAT Analysis Corporation

Date: *July 25, 2005*

CLIENT:	MACTEC Engineering and Consulting, Inc.
Project:	3205-05-0441.01, Ft Sheridan-NAVFAC
Lab Order:	0507475

CASE NARRATIVE

Due to matrix interference, VES#3-A (0507475-019) had high PNA soil surrogate recovery for 2-Fluorobiphenyl (121% Recovery, QC Limits 30-115%), 4-Terphenyl-d14 (165% Recovery, QC Limits 18-137%) and Nitrobenzene-d5 (385% Recovery, QC Limits 23-120%).

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-001

Client Sample ID: 368A
Collection Date: 7/14/2005 7:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/22/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/22/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/22/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/22/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/22/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/22/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/22/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/22/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/22/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/22/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/22/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/22/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/22/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/22/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	13.4	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-002

Client Sample ID: 368B
Collection Date: 7/14/2005 8:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	7/22/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	7/22/2005
Anthracene	ND	0.027		mg/Kg-dry	1	7/22/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	7/22/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	7/22/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	7/22/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	7/22/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	7/22/2005
Chrysene	0.034	0.027		mg/Kg-dry	1	7/22/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	7/22/2005
Fluoranthene	0.052	0.027		mg/Kg-dry	1	7/22/2005
Fluorene	ND	0.027		mg/Kg-dry	1	7/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	7/22/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	7/22/2005
Phenanthrene	0.04	0.027		mg/Kg-dry	1	7/22/2005
Pyrene	0.043	0.027		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	11.0	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-003

Client Sample ID: 389
Collection Date: 7/14/2005 8:53:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/22/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/22/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/22/2005
Benz(a)anthracene	0.029	0.028		mg/Kg-dry	1	7/22/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/22/2005
Benzo(b)fluoranthene	0.033	0.028		mg/Kg-dry	1	7/22/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/22/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/22/2005
Chrysene	0.036	0.028		mg/Kg-dry	1	7/22/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/22/2005
Fluoranthene	0.052	0.028		mg/Kg-dry	1	7/22/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/22/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/22/2005
Phenanthrene	0.03	0.028		mg/Kg-dry	1	7/22/2005
Pyrene	0.044	0.028		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	11.2	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-004

Client Sample ID: 390
Collection Date: 7/14/2005 9:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.037		mg/Kg-dry	10	7/22/2005
Acenaphthylene	ND	0.037		mg/Kg-dry	10	7/22/2005
Anthracene	ND	0.037		mg/Kg-dry	10	7/22/2005
Benz(a)anthracene	0.068	0.037		mg/Kg-dry	10	7/22/2005
Benzo(a)pyrene	0.06	0.037		mg/Kg-dry	10	7/22/2005
Benzo(b)fluoranthene	0.076	0.037		mg/Kg-dry	10	7/22/2005
Benzo(g,h,i)perylene	0.045	0.037		mg/Kg-dry	10	7/22/2005
Benzo(k)fluoranthene	0.064	0.037		mg/Kg-dry	10	7/22/2005
Chrysene	0.072	0.037		mg/Kg-dry	10	7/22/2005
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	10	7/22/2005
Fluoranthene	0.12	0.037		mg/Kg-dry	10	7/22/2005
Fluorene	ND	0.037		mg/Kg-dry	10	7/22/2005
Indeno(1,2,3-cd)pyrene	0.038	0.037		mg/Kg-dry	10	7/22/2005
Naphthalene	ND	0.037		mg/Kg-dry	10	7/22/2005
Phenanthrene	0.053	0.037		mg/Kg-dry	10	7/22/2005
Pyrene	0.11	0.037		mg/Kg-dry	10	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	12.0	0.01	*	wt%	1	7/22/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-005

Client Sample ID: 368-SS
Collection Date: 7/14/2005 8:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/19/2005**		Analyst: **JG**
Lead	200	0.56		mg/Kg-dry	10	7/19/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	0.24	0.039		mg/Kg-dry	10	7/22/2005
Acenaphthylene	ND	0.039		mg/Kg-dry	10	7/22/2005
Anthracene	0.54	0.039		mg/Kg-dry	10	7/22/2005
Benz(a)anthracene	1.1	0.039		mg/Kg-dry	10	7/22/2005
Benzo(a)pyrene	0.78	0.039		mg/Kg-dry	10	7/22/2005
Benzo(b)fluoranthene	1.1	0.039		mg/Kg-dry	10	7/22/2005
Benzo(g,h,i)perylene	0.42	0.039		mg/Kg-dry	10	7/22/2005
Benzo(k)fluoranthene	0.59	0.039		mg/Kg-dry	10	7/22/2005
Chrysene	1.1	0.039		mg/Kg-dry	10	7/22/2005
Dibenz(a,h)anthracene	0.087	0.039		mg/Kg-dry	10	7/22/2005
Fluoranthene	2.6	0.039		mg/Kg-dry	10	7/22/2005
Fluorene	0.28	0.039		mg/Kg-dry	10	7/22/2005
Indeno(1,2,3-cd)pyrene	0.39	0.039		mg/Kg-dry	10	7/22/2005
Naphthalene	0.14	0.039		mg/Kg-dry	10	7/22/2005
Phenanthrene	2.4	0.039		mg/Kg-dry	10	7/22/2005
Pyrene	2.1	0.039		mg/Kg-dry	10	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	16.7	0.01	*	wt%	1	7/22/2005

Qualifiers:
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-006

Client Sample ID: 384-A
Collection Date: 7/14/2005 8:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.038		mg/Kg-dry	10	7/22/2005
Acenaphthylene	ND	0.038		mg/Kg-dry	10	7/22/2005
Anthracene	ND	0.038		mg/Kg-dry	10	7/22/2005
Benz(a)anthracene	0.038	0.038		mg/Kg-dry	10	7/22/2005
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	10	7/22/2005
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	10	7/22/2005
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	10	7/22/2005
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	10	7/22/2005
Chrysene	0.042	0.038		mg/Kg-dry	10	7/22/2005
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	10	7/22/2005
Fluoranthene	0.065	0.038		mg/Kg-dry	10	7/22/2005
Fluorene	ND	0.038		mg/Kg-dry	10	7/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	10	7/22/2005
Naphthalene	ND	0.038		mg/Kg-dry	10	7/22/2005
Phenanthrene	0.038	0.038		mg/Kg-dry	10	7/22/2005
Pyrene	0.057	0.038		mg/Kg-dry	10	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	13.1	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-007

Client Sample ID: 384-B
Collection Date: 7/14/2005 9:09:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	0.066	0.029		mg/Kg-dry	1	7/22/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/22/2005
Anthracene	0.25	0.029		mg/Kg-dry	1	7/22/2005
Benz(a)anthracene	0.51	0.29		mg/Kg-dry	10	7/22/2005
Benzo(a)pyrene	0.32	0.29		mg/Kg-dry	10	7/22/2005
Benzo(b)fluoranthene	0.33	0.29		mg/Kg-dry	10	7/22/2005
Benzo(g,h,i)perylene	0.23	0.029		mg/Kg-dry	1	7/22/2005
Benzo(k)fluoranthene	0.3	0.29		mg/Kg-dry	10	7/22/2005
Chrysene	0.47	0.29		mg/Kg-dry	10	7/22/2005
Dibenz(a,h)anthracene	0.057	0.029		mg/Kg-dry	1	7/22/2005
Fluoranthene	1.2	0.29		mg/Kg-dry	10	7/22/2005
Fluorene	0.11	0.029		mg/Kg-dry	1	7/22/2005
Indeno(1,2,3-cd)pyrene	0.21	0.029		mg/Kg-dry	1	7/22/2005
Naphthalene	0.059	0.029		mg/Kg-dry	1	7/22/2005
Phenanthrene	0.9	0.29		mg/Kg-dry	10	7/22/2005
Pyrene	0.96	0.29		mg/Kg-dry	10	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	13.8	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-008

Client Sample ID: 369A
Collection Date: 7/14/2005 11:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.033		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.033		mg/Kg-dry	1	7/21/2005
Anthracene	ND	0.033		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	ND	0.033		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	0.046	0.033		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	0.044	0.033		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	0.056	0.033		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	0.036	0.033		mg/Kg-dry	1	7/21/2005
Chrysene	0.035	0.033		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.033		mg/Kg-dry	1	7/21/2005
Fluoranthene	0.054	0.033		mg/Kg-dry	1	7/21/2005
Fluorene	ND	0.033		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	0.045	0.033		mg/Kg-dry	1	7/21/2005
Naphthalene	ND	0.033		mg/Kg-dry	1	7/21/2005
Phenanthrene	ND	0.033		mg/Kg-dry	1	7/21/2005
Pyrene	0.045	0.033		mg/Kg-dry	1	7/21/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0062		mg/Kg-dry	1	7/21/2005
Toluene	ND	0.0062		mg/Kg-dry	1	7/21/2005
Ethylbenzene	ND	0.0062		mg/Kg-dry	1	7/21/2005
Xylenes, Total	ND	0.019		mg/Kg-dry	1	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	27.9	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-009

Client Sample ID: 388
Collection Date: 7/14/2005 8:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.036		mg/Kg-dry	10	7/22/2005
Acenaphthylene	ND	0.036		mg/Kg-dry	10	7/22/2005
Anthracene	ND	0.036		mg/Kg-dry	10	7/22/2005
Benz(a)anthracene	0.072	0.036		mg/Kg-dry	10	7/22/2005
Benzo(a)pyrene	0.05	0.036		mg/Kg-dry	10	7/22/2005
Benzo(b)fluoranthene	0.065	0.036		mg/Kg-dry	10	7/22/2005
Benzo(g,h,i)perylene	ND	0.036		mg/Kg-dry	10	7/22/2005
Benzo(k)fluoranthene	0.057	0.036		mg/Kg-dry	10	7/22/2005
Chrysene	0.065	0.036		mg/Kg-dry	10	7/22/2005
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	10	7/22/2005
Fluoranthene	0.13	0.036		mg/Kg-dry	10	7/22/2005
Fluorene	ND	0.036		mg/Kg-dry	10	7/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.036		mg/Kg-dry	10	7/22/2005
Naphthalene	ND	0.036		mg/Kg-dry	10	7/22/2005
Phenanthrene	0.079	0.036		mg/Kg-dry	10	7/22/2005
Pyrene	0.11	0.036		mg/Kg-dry	10	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	9.34	0.01	*	wt%	1	7/22/2005

Qualifiers:
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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-010

Client Sample ID: 368C
Collection Date: 7/14/2005 9:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/19/2005**		Analyst: **JG**
Barium	76	1.1		mg/Kg-dry	10	7/19/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.031		mg/Kg-dry	1	7/22/2005
Acenaphthylene	ND	0.031		mg/Kg-dry	1	7/22/2005
Anthracene	ND	0.031		mg/Kg-dry	1	7/22/2005
Benz(a)anthracene	0.035	0.031		mg/Kg-dry	1	7/22/2005
Benzo(a)pyrene	0.032	0.031		mg/Kg-dry	1	7/22/2005
Benzo(b)fluoranthene	0.037	0.031		mg/Kg-dry	1	7/22/2005
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	7/22/2005
Benzo(k)fluoranthene	ND	0.031		mg/Kg-dry	1	7/22/2005
Chrysene	0.044	0.031		mg/Kg-dry	1	7/22/2005
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	7/22/2005
Fluoranthene	0.075	0.031		mg/Kg-dry	1	7/22/2005
Fluorene	ND	0.031		mg/Kg-dry	1	7/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	7/22/2005
Naphthalene	ND	0.031		mg/Kg-dry	1	7/22/2005
Phenanthrene	0.037	0.031		mg/Kg-dry	1	7/22/2005
Pyrene	0.057	0.031		mg/Kg-dry	1	7/22/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0052		mg/Kg-dry	1	7/21/2005
Toluene	ND	0.0052		mg/Kg-dry	1	7/21/2005
Ethylbenzene	ND	0.0052		mg/Kg-dry	1	7/21/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	19.0	0.01	*	wt%	1	7/22/2005

Qualifiers:
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* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-011

Client Sample ID: 368D
Collection Date: 7/14/2005 9:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/19/2005**		Analyst: **JG**
Barium	92	1.1		mg/Kg-dry	10	7/19/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	7/21/2005
Anthracene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Chrysene	ND	0.03		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	7/21/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Fluorene	ND	0.03		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	7/21/2005
Naphthalene	0.11	0.03		mg/Kg-dry	1	7/21/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	7/21/2005
Pyrene	ND	0.03		mg/Kg-dry	1	7/21/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	0.0081	0.0046		mg/Kg-dry	1	7/21/2005
Toluene	ND	0.0046		mg/Kg-dry	1	7/21/2005
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	7/21/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	15.6	0.01	*	wt%	1	7/22/2005

Qualifiers:
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-012

Client Sample ID: 368F
Collection Date: 7/14/2005 11:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.037		mg/Kg-dry	10	7/22/2005
Acenaphthylene	ND	0.037		mg/Kg-dry	10	7/22/2005
Anthracene	0.055	0.037		mg/Kg-dry	10	7/22/2005
Benz(a)anthracene	0.23	0.037		mg/Kg-dry	10	7/22/2005
Benzo(a)pyrene	0.16	0.037		mg/Kg-dry	10	7/22/2005
Benzo(b)fluoranthene	0.23	0.037		mg/Kg-dry	10	7/22/2005
Benzo(g,h,i)perylene	0.089	0.037		mg/Kg-dry	10	7/22/2005
Benzo(k)fluoranthene	0.12	0.037		mg/Kg-dry	10	7/22/2005
Chrysene	0.24	0.037		mg/Kg-dry	10	7/22/2005
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	10	7/22/2005
Fluoranthene	0.51	0.037		mg/Kg-dry	10	7/22/2005
Fluorene	ND	0.037		mg/Kg-dry	10	7/22/2005
Indeno(1,2,3-cd)pyrene	0.081	0.037		mg/Kg-dry	10	7/22/2005
Naphthalene	ND	0.037		mg/Kg-dry	10	7/22/2005
Phenanthrene	0.27	0.037		mg/Kg-dry	10	7/22/2005
Pyrene	0.4	0.037		mg/Kg-dry	10	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	11.4	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-013

Client Sample ID: 368G
Collection Date: 7/14/2005 11:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	7/21/2005
Anthracene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	0.13	0.03		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	0.11	0.03		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	0.11	0.03		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	0.053	0.03		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	0.098	0.03		mg/Kg-dry	1	7/21/2005
Chrysene	0.13	0.03		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	7/21/2005
Fluoranthene	0.27	0.03		mg/Kg-dry	1	7/21/2005
Fluorene	ND	0.03		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	0.053	0.03		mg/Kg-dry	1	7/21/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	7/21/2005
Phenanthrene	0.1	0.03		mg/Kg-dry	1	7/21/2005
Pyrene	0.22	0.03		mg/Kg-dry	1	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	16.2	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-014

Client Sample ID: 368H
Collection Date: 7/14/2005 11:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	7/22/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	7/22/2005
Anthracene	ND	0.027		mg/Kg-dry	1	7/22/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	7/22/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	7/22/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	7/22/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	7/22/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	7/22/2005
Chrysene	ND	0.027		mg/Kg-dry	1	7/22/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	7/22/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	7/22/2005
Fluorene	ND	0.027		mg/Kg-dry	1	7/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	7/22/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	7/22/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	7/22/2005
Pyrene	ND	0.027		mg/Kg-dry	1	7/22/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0047		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0047		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	6.16	0.01	*	wt%	1	7/22/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-015

Client Sample ID: 368E
Collection Date: 7/14/2005 10:40:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/19/2005**		Analyst: **JG**
Barium	49	1.1		mg/Kg-dry	10	7/19/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/21/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	0.032	0.029		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/21/2005
Chrysene	0.032	0.029		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/21/2005
Fluoranthene	0.062	0.029		mg/Kg-dry	1	7/21/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/21/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/21/2005
Phenanthrene	0.036	0.029		mg/Kg-dry	1	7/21/2005
Pyrene	0.05	0.029		mg/Kg-dry	1	7/21/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.005		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.005		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.005		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	16.9	0.01	*	wt%	1	7/22/2005

Qualifiers:
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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-016

Client Sample ID: 336A
Collection Date: 7/14/2005 12:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	7/21/2005
Anthracene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Chrysene	ND	0.03		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	7/21/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Fluorene	ND	0.03		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	7/21/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	7/21/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	7/21/2005
Pyrene	ND	0.03		mg/Kg-dry	1	7/21/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0047		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0047		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	16.3	0.01	*	wt%	1	7/22/2005

Qualifiers:

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H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-017

Client Sample ID: 336B
Collection Date: 7/14/2005 1:15:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.034		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.034		mg/Kg-dry	1	7/21/2005
Anthracene	ND	0.034		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	0.066	0.034		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	0.061	0.034		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	0.079	0.034		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	0.039	0.034		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	0.06	0.034		mg/Kg-dry	1	7/21/2005
Chrysene	0.083	0.034		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.034		mg/Kg-dry	1	7/21/2005
Fluoranthene	0.12	0.034		mg/Kg-dry	1	7/21/2005
Fluorene	ND	0.034		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	0.041	0.034		mg/Kg-dry	1	7/21/2005
Naphthalene	ND	0.034		mg/Kg-dry	1	7/21/2005
Phenanthrene	0.045	0.034		mg/Kg-dry	1	7/21/2005
Pyrene	0.1	0.034		mg/Kg-dry	1	7/21/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0053		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0053		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0053		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	25.5	0.01	*	wt%	1	7/22/2005

Qualifiers:
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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-018

Client Sample ID: 336C
Collection Date: 7/14/2005 12:25:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	0.053	0.037		mg/Kg-dry	10	7/22/2005
Acenaphthylene	ND	0.037		mg/Kg-dry	10	7/22/2005
Anthracene	0.21	0.037		mg/Kg-dry	10	7/22/2005
Benz(a)anthracene	1.2	0.037		mg/Kg-dry	10	7/22/2005
Benzo(a)pyrene	1.1	0.037		mg/Kg-dry	10	7/22/2005
Benzo(b)fluoranthene	1.5	0.037		mg/Kg-dry	10	7/22/2005
Benzo(g,h,i)perylene	0.57	0.037		mg/Kg-dry	10	7/22/2005
Benzo(k)fluoranthene	0.76	0.037		mg/Kg-dry	10	7/22/2005
Chrysene	1.3	0.037		mg/Kg-dry	10	7/22/2005
Dibenz(a,h)anthracene	0.16	0.037		mg/Kg-dry	10	7/22/2005
Fluoranthene	2.2	0.037		mg/Kg-dry	10	7/22/2005
Fluorene	0.068	0.037		mg/Kg-dry	10	7/22/2005
Indeno(1,2,3-cd)pyrene	0.55	0.037		mg/Kg-dry	10	7/22/2005
Naphthalene	0.041	0.037		mg/Kg-dry	10	7/22/2005
Phenanthrene	0.91	0.037		mg/Kg-dry	10	7/22/2005
Pyrene	1.8	0.037		mg/Kg-dry	10	7/22/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0055		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0055		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	11.8	0.01	*	wt%	1	7/22/2005

Qualifiers:
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B - Analyte detected in the associated Method Blank
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* - Non-accredited parameter
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R - RPD outside accepted recovery limits
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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-019

Client Sample ID: VES#3-A
Collection Date: 7/14/2005 12:50:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	1.8	0.29		mg/Kg-dry	10	7/22/2005
Acenaphthylene	0.44	0.29		mg/Kg-dry	10	7/22/2005
Anthracene	1.2	0.29		mg/Kg-dry	10	7/22/2005
Benz(a)anthracene	0.22	0.029		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	0.065	0.029		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	0.12	0.029		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	0.079	0.029		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	0.063	0.029		mg/Kg-dry	1	7/21/2005
Chrysene	0.36	0.29		mg/Kg-dry	10	7/22/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/21/2005
Fluoranthene	0.53	0.29		mg/Kg-dry	10	7/22/2005
Fluorene	2.8	0.29		mg/Kg-dry	10	7/22/2005
Indeno(1,2,3-cd)pyrene	0.067	0.029		mg/Kg-dry	1	7/21/2005
Naphthalene	6.7	2.9		mg/Kg-dry	100	7/22/2005
Phenanthrene	9.5	2.9		mg/Kg-dry	100	7/22/2005
Pyrene	0.58	0.29		mg/Kg-dry	10	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	13.5	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-020

Client Sample ID: VES#3-B
Collection Date: 7/14/2005 1:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/21/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/21/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/21/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	7/21/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/21/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/21/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/21/2005
Pyrene	ND	0.028		mg/Kg-dry	1	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	10.4	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-021

Client Sample ID: VES#3C
Collection Date: 7/14/2005 1:13:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.033		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.033		mg/Kg-dry	1	7/21/2005
Anthracene	ND	0.033		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	ND	0.033		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	ND	0.033		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	ND	0.033		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	ND	0.033		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	ND	0.033		mg/Kg-dry	1	7/21/2005
Chrysene	ND	0.033		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.033		mg/Kg-dry	1	7/21/2005
Fluoranthene	ND	0.033		mg/Kg-dry	1	7/21/2005
Fluorene	ND	0.033		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	ND	0.033		mg/Kg-dry	1	7/21/2005
Naphthalene	ND	0.033		mg/Kg-dry	1	7/21/2005
Phenanthrene	ND	0.033		mg/Kg-dry	1	7/21/2005
Pyrene	ND	0.033		mg/Kg-dry	1	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	23.8	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-022

Client Sample ID: VES#3D
Collection Date: 7/14/2005 1:40:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.026		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.026		mg/Kg-dry	1	7/21/2005
Anthracene	0.06	0.026		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	0.33	0.26		mg/Kg-dry	10	7/22/2005
Benzo(a)pyrene	0.32	0.26		mg/Kg-dry	10	7/22/2005
Benzo(b)fluoranthene	0.32	0.26		mg/Kg-dry	10	7/22/2005
Benzo(g,h,i)perylene	0.062	0.026		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	0.12	0.026		mg/Kg-dry	1	7/21/2005
Chrysene	0.33	0.26		mg/Kg-dry	10	7/22/2005
Dibenz(a,h)anthracene	ND	0.026		mg/Kg-dry	1	7/21/2005
Fluoranthene	0.67	0.26		mg/Kg-dry	10	7/22/2005
Fluorene	ND	0.026		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	0.066	0.026		mg/Kg-dry	1	7/21/2005
Naphthalene	ND	0.026		mg/Kg-dry	1	7/21/2005
Phenanthrene	0.17	0.026		mg/Kg-dry	1	7/21/2005
Pyrene	0.58	0.26		mg/Kg-dry	10	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	3.86	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-023

Client Sample ID: VES#3-E
Collection Date: 7/14/2005 1:55:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/21/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/21/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/21/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	7/21/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/21/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/21/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/21/2005
Pyrene	ND	0.028		mg/Kg-dry	1	7/21/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0042		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0042		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0042		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.013		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	11.4	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-024

Client Sample ID: VES#7A
Collection Date: 7/14/2005 2:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/21/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	0.036	0.029		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/21/2005
Chrysene	0.045	0.029		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/21/2005
Fluoranthene	0.077	0.029		mg/Kg-dry	1	7/21/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/21/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/21/2005
Phenanthrene	0.031	0.029		mg/Kg-dry	1	7/21/2005
Pyrene	0.064	0.029		mg/Kg-dry	1	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	13.1	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507475
Project: 3205-05-0441.01, Ft Sheridan-NAVFAC
Lab ID: 0507475-025

Client Sample ID: VES#7B
Collection Date: 7/14/2005 2:55:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.031		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.031		mg/Kg-dry	1	7/21/2005
Anthracene	ND	0.031		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	ND	0.031		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	ND	0.031		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	ND	0.031		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	ND	0.031		mg/Kg-dry	1	7/21/2005
Chrysene	ND	0.031		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	7/21/2005
Fluoranthene	ND	0.031		mg/Kg-dry	1	7/21/2005
Fluorene	ND	0.031		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	7/21/2005
Naphthalene	ND	0.031		mg/Kg-dry	1	7/21/2005
Phenanthrene	ND	0.031		mg/Kg-dry	1	7/21/2005
Pyrene	ND	0.031		mg/Kg-dry	1	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	18.6	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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CHAIN OF CUSTODY RECORD

№: 810341

Company: MACTEC E&C
Project Number: 3205-05-0441.01 Client Tracking No.:
Project Name: Ft. Sheridan - NAVFAC
Location/Address: Ft. Sheridan, IL
Sampler(s): Andrew Hastings & Dennis Nagg
Report To: Dennis Nagg Phone: 773-693-6030
QC Level: 1 ____ 2 ____ 3 ____ 4 ____ Fax: 773-693-6039
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other: ____

P.O. No.:
Quote No.:

Turn Around: Standard
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	BTEX	PNA	Barium Total Lead	Remarks	Lab No.
368 A	7/14/05	7:45	Soil		X		1	X				003
368 B		8:20					1	X				004
389		8:53					1	X				005
390		9:00					1	X				006
368-SS		8:15					1	X		X		007
384-A		8:50					1	X				008
384-B		9:09					1	X				009
369 A		11:15					4	X	X			010
388		8:45					1	X				011
368 C		9:25					4	X	X	X		012
368 D		9:50					4	X	X	X		013
368 F		11:00					1	X				014
368 G		11:20					1	X				015
368 H		11:30					4	X	X			016
368 E		10:40					4	X	X	X		017
336 A		12:00					4	X	X			018
336 B		12:15					4	X	X			019
336 C		12:25					4	X	X			020
VES #3-A		12:50					1	X				021
VES #3-B		13:00					1	X				022

Relinquished by: (Signature) Andrew S. Hastings	Date/Time: 7/14/05 16:30	
Received by: (Signature) [illegible]	Date/Time: 7-15-05 23:0	
Relinquished by: (Signature) [illegible]	Date/Time: 7/15/05 15:50	
Received for lab by: (Signature) [illegible]	Date/Time: 7/15/05 1[illegible]	
Relinquished by: (Signature)	Date/Time:	

Laboratory Use: Sample Verification:

Container OK	Yes X	No
Samples Leaking	Yes	No X
Refrigerated (Temp: 5 °C)	Yes X	No
Sample Labels Match Sample ID	Yes X	No

Work Order No.: 050705

Preservation Code:
A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore

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CHAIN OF CUSTODY RECORD

№: 810336

Page: 2 of 2

Company: MACTEC E&C
Project Number: 3205-05-0441.01 Client Tracking No.:
Project Name: Ft. Sheridan - NAVFAC
Location/Address: Ft. Sheridan, IL
Sampler(s): Andrew Hastings & Dennis Nagg
Report To: DEN Phone:
QC Level: 1 ___ 2 ___ 3 ___ 4 ___ Fax:
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other:

P.O. No.:
Quote No.:

Turn Around: Standard
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	BTEX	PNA	Barium	Total Lead	Remarks	Lab No.
VES#3-C	7/14/05	13:13	Sn.7		X		1		X				041
VES#3-D		13:40					1		X				022
VES#3-E		13:55					4	X	X				023
VES#7A		14:30					1		X				024
VES#7B		14:55					1		X				025

Relinquished by: (Signature) Andrew Hastings	Date/Time: 7/14/05 16:30	Laboratory Use: Sample Verification:	Work Order No.: 0507475
Received by: (Signature) Saul Gomez	Date/Time: 7-15-05 2:20	Container OK Yes X No	
Relinquished by: (Signature) Saul Gomez	Date/Time: 7-15-05 [illegible]	Sampler Leaking Yes No X	Preservation Code:
Received for lab by: (Signature) [illegible]	Date/Time: 7/15/05 1[illegible]	Refrigerated (Temp) 5 °C Yes X No	A = None B = HNO_3 C = NaOH
Relinquished by: (Signature)	Date/Time:	Sample Labels Match Sample ID Yes X No	D = H_2SO_4 E = HCl F = 5035/EnCore

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC | Date and Time Received: 07/15/2005

Work Order Numbe 0507475 | Received by: JC

Checklist completed by: Jesus Cant (Signature) 7/15/05 (Date) | Reviewed by: cc (Initials) 7/25/2005 (Date)

Matrix | Carrier name | STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 5 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

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Checked & OK
DEN 8/18/05

July 25, 2005

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205-05-0441.01, Ft. Sheridan-NAVFAC STAT Project No: 0507474

Dear Dennis Nagg:

STAT Analysis received 10 samples for the referenced project on 7/15/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205-05-0441.01, Ft. Sheridan-NAVFAC
Lab Order: 0507474

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0507474-001A	VES#7C		7/15/2005 8:00:00 AM	7/15/2005
0507474-002A	378A		7/15/2005 8:45:00 AM	7/15/2005
0507474-002B	378A		7/15/2005 8:45:00 AM	7/15/2005
0507474-003A	377A		7/15/2005 9:00:00 AM	7/15/2005
0507474-003B	377A		7/15/2005 9:00:00 AM	7/15/2005
0507474-004A	378B		7/15/2005 9:25:00 AM	7/15/2005
0507474-004B	378B		7/15/2005 9:25:00 AM	7/15/2005
0507474-005A	378C		7/15/2005 9:40:00 AM	7/15/2005
0507474-005B	378C		7/15/2005 9:40:00 AM	7/15/2005
0507474-006A	375A		7/15/2005 10:05:00 AM	7/15/2005
0507474-006B	375A		7/15/2005 10:05:00 AM	7/15/2005
0507474-007A	375B		7/15/2005 10:10:00 AM	7/15/2005
0507474-007B	375B		7/15/2005 10:10:00 AM	7/15/2005
0507474-008A	375C		7/15/2005 10:20:00 AM	7/15/2005
0507474-008B	375C		7/15/2005 10:20:00 AM	7/15/2005
0507474-009A	364A		7/15/2005 11:00:00 AM	7/15/2005
0507474-009B	364A		7/15/2005 11:00:00 AM	7/15/2005
0507474-010A	365A		7/15/2005 11:20:00 AM	7/15/2005
0507474-010B	365A		7/15/2005 11:20:00 AM	7/15/2005

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507474
Project: 3205-05-0441.01, Ft. Sheridan-NAVFAC
Lab ID: 0507474-001

Client Sample ID: VES#7C
Collection Date: 7/15/2005 8:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/21/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	0.072	0.028		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	0.061	0.028		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	0.084	0.028		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	0.033	0.028		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	0.032	0.028		mg/Kg-dry	1	7/21/2005
Chrysene	0.074	0.028		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/21/2005
Fluoranthene	0.16	0.028		mg/Kg-dry	1	7/21/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	0.028	0.028		mg/Kg-dry	1	7/21/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/21/2005
Phenanthrene	0.083	0.028		mg/Kg-dry	1	7/21/2005
Pyrene	0.13	0.028		mg/Kg-dry	1	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	13.1	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507474
Project: 3205-05-0441.01, Ft. Sheridan-NAVFAC
Lab ID: 0507474-002

Client Sample ID: 378A
Collection Date: 7/15/2005 8:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**		Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	0.099	0.03		mg/Kg-dry	1	7/21/2005
Acenaphthylene	0.069	0.03		mg/Kg-dry	1	7/21/2005
Anthracene	0.032	0.03		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Chrysene	ND	0.03		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	7/21/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Fluorene	0.13	0.03		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	7/21/2005
Naphthalene	0.082	0.03		mg/Kg-dry	1	7/21/2005
Phenanthrene	0.18	0.03		mg/Kg-dry	1	7/21/2005
Pyrene	ND	0.03		mg/Kg-dry	1	7/21/2005
BTEX by GC/MS		**SW5035/8260B**		Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0055		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0055		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0055		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	7/22/2005
Percent Moisture		**D2974**		Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	18.4	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507474
Project: 3205-05-0441.01, Ft. Sheridan-NAVFAC
Lab ID: 0507474-003

Client Sample ID: 377A
Collection Date: 7/15/2005 9:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.026		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.026		mg/Kg-dry	1	7/21/2005
Anthracene	ND	0.026		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	ND	0.026		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	ND	0.026		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	ND	0.026		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	ND	0.026		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	ND	0.026		mg/Kg-dry	1	7/21/2005
Chrysene	ND	0.026		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.026		mg/Kg-dry	1	7/21/2005
Fluoranthene	ND	0.026		mg/Kg-dry	1	7/21/2005
Fluorene	ND	0.026		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	ND	0.026		mg/Kg-dry	1	7/21/2005
Naphthalene	ND	0.026		mg/Kg-dry	1	7/21/2005
Phenanthrene	ND	0.026		mg/Kg-dry	1	7/21/2005
Pyrene	ND	0.026		mg/Kg-dry	1	7/21/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0048		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0048		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	6.78	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507474
Project: 3205-05-0441.01, Ft. Sheridan-NAVFAC
Lab ID: 0507474-004

Client Sample ID: 378B
Collection Date: 7/15/2005 9:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	7/21/2005
Anthracene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	7/21/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Chrysene	ND	0.03		mg/Kg-dry	1	7/21/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	7/21/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	7/21/2005
Fluorene	ND	0.03		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	7/21/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	7/21/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	7/21/2005
Pyrene	ND	0.03		mg/Kg-dry	1	7/21/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0049		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0049		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0049		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	18.6	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507474
Project: 3205-05-0441.01, Ft. Sheridan-NAVFAC
Lab ID: 0507474-005

Client Sample ID: 378C
Collection Date: 7/15/2005 9:40:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	0.14	0.032		mg/Kg-dry	1	7/21/2005
Acenaphthylene	0.056	0.032		mg/Kg-dry	1	7/21/2005
Anthracene	0.39	0.32		mg/Kg-dry	10	7/22/2005
Benz(a)anthracene	0.97	0.32		mg/Kg-dry	10	7/22/2005
Benzo(a)pyrene	0.95	0.32		mg/Kg-dry	10	7/22/2005
Benzo(b)fluoranthene	0.79	0.32		mg/Kg-dry	10	7/22/2005
Benzo(g,h,i)perylene	0.72	0.32		mg/Kg-dry	10	7/22/2005
Benzo(k)fluoranthene	0.78	0.32		mg/Kg-dry	10	7/22/2005
Chrysene	0.95	0.32		mg/Kg-dry	10	7/22/2005
Dibenz(a,h)anthracene	0.092	0.032		mg/Kg-dry	1	7/21/2005
Fluoranthene	2.1	0.32		mg/Kg-dry	10	7/22/2005
Fluorene	0.21	0.032		mg/Kg-dry	1	7/21/2005
Indeno(1,2,3-cd)pyrene	0.61	0.32		mg/Kg-dry	10	7/22/2005
Naphthalene	0.061	0.032		mg/Kg-dry	1	7/21/2005
Phenanthrene	1.4	0.32		mg/Kg-dry	10	7/22/2005
Pyrene	1.7	0.32		mg/Kg-dry	10	7/22/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0058		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0058		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0058		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	22.0	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507474
Project: 3205-05-0441.01, Ft. Sheridan-NAVFAC
Lab ID: 0507474-006

Client Sample ID: 375A
Collection Date: 7/15/2005 10:05:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.038		mg/Kg-dry	10	7/22/2005
Acenaphthylene	ND	0.038		mg/Kg-dry	10	7/22/2005
Anthracene	0.088	0.038		mg/Kg-dry	10	7/22/2005
Benz(a)anthracene	0.62	0.038		mg/Kg-dry	10	7/22/2005
Benzo(a)pyrene	0.63	0.038		mg/Kg-dry	10	7/22/2005
Benzo(b)fluoranthene	0.63	0.038		mg/Kg-dry	10	7/22/2005
Benzo(g,h,i)perylene	0.54	0.038		mg/Kg-dry	10	7/22/2005
Benzo(k)fluoranthene	0.61	0.038		mg/Kg-dry	10	7/22/2005
Chrysene	0.71	0.038		mg/Kg-dry	10	7/22/2005
Dibenz(a,h)anthracene	0.2	0.038		mg/Kg-dry	10	7/22/2005
Fluoranthene	1.2	0.038		mg/Kg-dry	10	7/22/2005
Fluorene	0.042	0.038		mg/Kg-dry	10	7/22/2005
Indeno(1,2,3-cd)pyrene	0.45	0.038		mg/Kg-dry	10	7/22/2005
Naphthalene	ND	0.038		mg/Kg-dry	10	7/22/2005
Phenanthrene	0.34	0.038		mg/Kg-dry	10	7/22/2005
Pyrene	0.99	0.038		mg/Kg-dry	10	7/22/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	14.0	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507474
Project: 3205-05-0441.01, Ft. Sheridan-NAVFAC
Lab ID: 0507474-007

Client Sample ID: 375B
Collection Date: 7/15/2005 10:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/22/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/22/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/22/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/22/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/22/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/22/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/22/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/22/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/22/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/22/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/22/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/22/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/22/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/22/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/22/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	15.5	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507474
Project: 3205-05-0441.01, Ft. Sheridan-NAVFAC
Lab ID: 0507474-008

Client Sample ID: 375C
Collection Date: 7/15/2005 10:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	7/22/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	7/22/2005
Anthracene	ND	0.03		mg/Kg-dry	1	7/22/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	7/22/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	7/22/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	7/22/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	7/22/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	7/22/2005
Chrysene	ND	0.03		mg/Kg-dry	1	7/22/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	7/22/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	7/22/2005
Fluorene	ND	0.03		mg/Kg-dry	1	7/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	7/22/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	7/22/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	7/22/2005
Pyrene	ND	0.03		mg/Kg-dry	1	7/22/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0047		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0047		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	18.5	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507474
Project: 3205-05-0441.01, Ft. Sheridan-NAVFAC
Lab ID: 0507474-009

Client Sample ID: 364A
Collection Date: 7/15/2005 11:00:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	0.23	0.03		mg/Kg-dry	1	7/22/2005
Acenaphthylene	0.35	0.03		mg/Kg-dry	1	7/22/2005
Anthracene	0.22	0.03		mg/Kg-dry	1	7/22/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	7/22/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	7/22/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	7/22/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	7/22/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	7/22/2005
Chrysene	ND	0.03		mg/Kg-dry	1	7/22/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	7/22/2005
Fluoranthene	0.034	0.03		mg/Kg-dry	1	7/22/2005
Fluorene	0.76	0.3		mg/Kg-dry	10	7/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	7/22/2005
Naphthalene	0.42	0.3		mg/Kg-dry	10	7/22/2005
Phenanthrene	1.3	0.3		mg/Kg-dry	10	7/22/2005
Pyrene	0.31	0.3		mg/Kg-dry	10	7/22/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0049		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0049		mg/Kg-dry	1	7/22/2005
Ethylbenzene	0.024	0.0049		mg/Kg-dry	1	7/22/2005
Xylenes, Total	0.034	0.015		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	17.9	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 25, 2005
Date Printed: July 25, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507474
Project: 3205-05-0441.01, Ft. Sheridan-NAVFAC
Lab ID: 0507474-010

Client Sample ID: 365A
Collection Date: 7/15/2005 11:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/21/2005**		Analyst: **VS**
Acenaphthene	ND	0.039		mg/Kg-dry	10	7/22/2005
Acenaphthylene	0.039	0.039		mg/Kg-dry	10	7/22/2005
Anthracene	ND	0.039		mg/Kg-dry	10	7/22/2005
Benz(a)anthracene	ND	0.039		mg/Kg-dry	10	7/22/2005
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	10	7/22/2005
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	10	7/22/2005
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	10	7/22/2005
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	10	7/22/2005
Chrysene	ND	0.039		mg/Kg-dry	10	7/22/2005
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	10	7/22/2005
Fluoranthene	ND	0.039		mg/Kg-dry	10	7/22/2005
Fluorene	ND	0.039		mg/Kg-dry	10	7/22/2005
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	10	7/22/2005
Naphthalene	ND	0.039		mg/Kg-dry	10	7/22/2005
Phenanthrene	ND	0.039		mg/Kg-dry	10	7/22/2005
Pyrene	ND	0.039		mg/Kg-dry	10	7/22/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/18/2005**		Analyst: **MP**
Benzene	ND	0.0054		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0054		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0054		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/21/2005**		Analyst: **RW**
Percent Moisture	16.6	0.01	*	wt%	1	7/22/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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CHAIN OF CUSTODY RECORD

№: 809472 Page: 1 of 1

Company: MACTEC E&C
Project Number: 3205-05-0441.01 Client Tracking No.:
Project Name: Ft. Sheridan - NAVFAC
Location/Address: Ft. Sheridan, IL
Sampler(s): Andrew Hastings & Dennis Nagy
Report To: Dennis Nagy Phone: 773-693-6030
QC Level: 1 ___ 2 ___ 3 ___ 4 ___ Fax: 773-693-6031
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other: ___

P.O. No.:
Quote No.:

Turn Around: Standard
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	BTEX	PNA	Remarks	Lab No.
VES#7C	7/15/05	8:00	Soil		X		1		X		001
378 A		8:45					4	X	X		002
377 A		9:00					4	X	X		003
378 B		9:25					4	X	X		004
378 C		9:40					4	X	X		005
375 A		10:05					4	X	X		006
375 B		10:10					4	X	X		007
375 C		10:20					4	X	X		008
364A		11:00					4	X	X		009
365 A		11:20					4	X	X		010

Relinquished by: (Signature) Andrew E. Hastings	Date/Time: 7/15/05 13:30	
Received by: (Signature) Earl Bowe	Date/Time: 7/15/05 2:20	
Relinquished by: (Signature) Earl Bowe	Date/Time: 7/15/05 5:10	
Received for lab by: (Signature) Jesus Cantu	Date/Time: 7/15/05 17	
Relinquished by: (Signature)	Date/Time:	

Laboratory Use:
Container OK: Yes X No
Samples Leaking: Yes No X
Refrigerated (Temp: 5 °C) Yes X No
Sample Labels Match Sample ID: Yes X No

Sample Verification:

Work Order No.: 0807474

Preservation Code:
A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC

Date and Time Received: 07/15/2005

Work Order Numbe 0507474

Received by: JC

Checklist completed by: [signature] 7/15/05 (Signature / Date)

Reviewed by: [initials] 7/25/2005 (Initials / Date)

Matrix

Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 5 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments:

Corrective Action

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July 27, 2005

Checked & OK
DEN 8/18/05

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205050441.03, Forest City-Ft Sheridan STAT Project No: 0507584

Dear Dennis Nagg:

STAT Analysis received 37 samples for the referenced project on 7/19/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205050441.03, Forest City-Ft Sheridan
Lab Order: 0507584

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0507584-001A	445-Pb-1		7/19/2005 9:32:00 AM	7/19/2005
0507584-002A	495-Pb-1		7/19/2005 9:35:00 AM	7/19/2005
0507584-003A	447-Pb-1		7/19/2005 9:37:00 AM	7/19/2005
0507584-004A	447-Pb-2		7/19/2005 9:39:00 AM	7/19/2005
0507584-005A	447-Pb-3		7/19/2005 9:42:00 AM	7/19/2005
0507584-006A	423-Pb-1		7/19/2005 10:05:00 AM	7/19/2005
0507584-007A	423-Pb-2		7/19/2005 10:08:00 AM	7/19/2005
0507584-008A	423-Pb-3		7/19/2005 10:10:00 AM	7/19/2005
0507584-009A	423-Pb-4		7/19/2005 10:12:00 AM	7/19/2005
0507584-010A	427-Pb-1		7/19/2005 10:13:00 AM	7/19/2005
0507584-011A	427-Pb-2		7/19/2005 10:14:00 AM	7/19/2005
0507584-012A	427-Pb-3		7/19/2005 10:15:00 AM	7/19/2005
0507584-013A	431-Pb-1		7/19/2005 10:19:00 AM	7/19/2005
0507584-014A	431-Pb-2		7/19/2005 10:21:00 AM	7/19/2005
0507584-015A	431-Pb-3		7/19/2005 10:22:00 AM	7/19/2005
0507584-016A	422-Pb-1		7/19/2005 10:26:00 AM	7/19/2005
0507584-017A	422-Pb-2		7/19/2005 10:27:00 AM	7/19/2005
0507584-018A	422-Pb-3		7/19/2005 10:28:00 AM	7/19/2005
0507584-019A	426-Pb-1		7/19/2005 10:29:00 AM	7/19/2005
0507584-020A	426-Pb-2		7/19/2005 10:30:00 AM	7/19/2005
0507584-021A	426-Pb-3		7/19/2005 10:31:00 AM	7/19/2005
0507584-022A	430-Pb-1		7/19/2005 10:38:00 AM	7/19/2005
0507584-023A	430-Pb-2		7/19/2005 10:34:00 AM	7/19/2005
0507584-024A	421-Pb-1		7/19/2005 10:53:00 AM	7/19/2005
0507584-025A	425-Pb-1		7/19/2005 10:54:00 AM	7/19/2005
0507584-026A	425-Pb-2		7/19/2005 10:55:00 AM	7/19/2005
0507584-027A	420-Pb-1		7/19/2005 10:58:00 AM	7/19/2005
0507584-028A	420-Pb-2		7/19/2005 10:59:00 AM	7/19/2005
0507584-029A	420-Pb-3		7/19/2005 11:00:00 AM	7/19/2005
0507584-030A	424-Pb-1		7/19/2005 11:07:00 AM	7/19/2005
0507584-031A	424-Pb-2		7/19/2005 11:08:00 AM	7/19/2005
0507584-032A	424-Pb-3		7/19/2005 11:10:00 AM	7/19/2005
0507584-033A	424-Pb-4		7/19/2005 11:11:00 AM	7/19/2005
0507584-034A	428-Pb-1		7/19/2005 11:14:00 AM	7/19/2005
0507584-035A	428-Pb-2		7/19/2005 11:15:00 AM	7/19/2005
0507584-036A	440-Pb-1		7/19/2005 11:23:00 AM	7/19/2005
0507584-037A	441-Pb-1		7/19/2005 11:28:00 AM	7/19/2005

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: 3205050441.03, Forest City-Ft Sheridan **Lab Order:** 0507584

Lab ID: 0507584-001 **Collection Date:** 7/19/2005 9:32:00 AM
Client Sample ID: 445-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	2500	0.53		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	8.12	0.01	*	wt%	1	7/25/2005

Lab ID: 0507584-002 **Collection Date:** 7/19/2005 9:35:00 AM
Client Sample ID: 495-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	5000	0.52		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	8.80	0.01	*	wt%	1	7/25/2005

Lab ID: 0507584-003 **Collection Date:** 7/19/2005 9:37:00 AM
Client Sample ID: 447-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	11000	11		mg/Kg-dry	100	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	13.4	0.01	*	wt%	1	7/25/2005

Lab ID: 0507584-004 **Collection Date:** 7/19/2005 9:39:00 AM
Client Sample ID: 447-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	180	0.51		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	10.0	0.01	*	wt%	1	7/25/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: 3205050441.03, Forest City-Ft Sheridan **Lab Order:** 0507584

Lab ID: 0507584-005 **Collection Date:** 7/19/2005 9:42:00 AM
Client Sample ID: 447-Pb-3 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	3000	1		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	12.3	0.01	*	wt%	1	7/25/2005

Lab ID: 0507584-006 **Collection Date:** 7/19/2005 10:05:00 AM
Client Sample ID: 423-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	1900	0.49		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	5.78	0.01	*	wt%	1	7/25/2005

Lab ID: 0507584-007 **Collection Date:** 7/19/2005 10:08:00 AM
Client Sample ID: 423-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	16000	9.6		mg/Kg-dry	200	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	3.66	0.01	*	wt%	1	7/25/2005

Lab ID: 0507584-008 **Collection Date:** 7/19/2005 10:10:00 AM
Client Sample ID: 423-Pb-3 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	1200	0.52		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	5.72	0.01	*	wt%	1	7/25/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: 3205050441.03, Forest City-Ft Sheridan **Lab Order:** 0507584

Lab ID: 0507584-009 **Collection Date:** 7/19/2005 10:12:00 AM
Client Sample ID: 423-Pb-4 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	3900	0.56		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	13.6	0.01	*	wt%	1	7/25/2005

Lab ID: 0507584-010 **Collection Date:** 7/19/2005 10:13:00 AM
Client Sample ID: 427-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	1100	0.55		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	10.6	0.01	*	wt%	1	7/25/2005

Lab ID: 0507584-011 **Collection Date:** 7/19/2005 10:14:00 AM
Client Sample ID: 427-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	3200	0.51		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	9.12	0.01	*	wt%	1	7/25/2005

Lab ID: 0507584-012 **Collection Date:** 7/19/2005 10:15:00 AM
Client Sample ID: 427-Pb-3 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	1100	0.51		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	9.67	0.01	*	wt%	1	7/25/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: 3205050441.03, Forest City-Ft Sheridan **Lab Order:** 0507584

Lab ID: 0507584-013 **Collection Date:** 7/19/2005 10:19:00 AM
Client Sample ID: 431-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**				Prep Date: **7/21/2005**	Analyst: **JG**
Lead	570	0.48		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**				Prep Date: **7/22/2005**	Analyst: **RW**
Percent Moisture	3.89	0.01	*	wt%	1	7/25/2005

Lab ID: 0507584-014 **Collection Date:** 7/19/2005 10:21:00 AM
Client Sample ID: 431-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**				Prep Date: **7/21/2005**	Analyst: **JG**
Lead	1900	0.49		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**				Prep Date: **7/22/2005**	Analyst: **RW**
Percent Moisture	6.44	0.01	*	wt%	1	7/25/2005

Lab ID: 0507584-015 **Collection Date:** 7/19/2005 10:22:00 AM
Client Sample ID: 431-Pb-3 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**				Prep Date: **7/21/2005**	Analyst: **JG**
Lead	580	0.54		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**				Prep Date: **7/22/2005**	Analyst: **RW**
Percent Moisture	9.17	0.01	*	wt%	1	7/25/2005

Lab ID: 0507584-016 **Collection Date:** 7/19/2005 10:26:00 AM
Client Sample ID: 422-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**				Prep Date: **7/21/2005**	Analyst: **JG**
Lead	2000	1		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**				Prep Date: **7/22/2005**	Analyst: **RW**
Percent Moisture	4.9	0.01	*	wt%	1	7/25/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: 3205050441.03, Forest City-Ft Sheridan **Lab Order:** 0507584

Lab ID: 0507584-017 **Collection Date:** 7/19/2005 10:27:00 AM
Client Sample ID: 422-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/22/2005**		Analyst: **JG**
Lead	2000	0.51		mg/Kg-dry	10	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	3.23	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-018 **Collection Date:** 7/19/2005 10:28:00 AM
Client Sample ID: 422-Pb-3 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/22/2005**		Analyst: **JG**
Lead	1900	0.54		mg/Kg-dry	10	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	8.44	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-019 **Collection Date:** 7/19/2005 10:29:00 AM
Client Sample ID: 426-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/22/2005**		Analyst: **JG**
Lead	1100	0.53		mg/Kg-dry	10	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	8.01	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-020 **Collection Date:** 7/19/2005 10:30:00 AM
Client Sample ID: 426-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/22/2005**		Analyst: **JG**
Lead	9600	5.1		mg/Kg-dry	100	7/25/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	2.85	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: 3205050441.03, Forest City-Ft Sheridan **Lab Order:** 0507584

Lab ID: 0507584-021 **Collection Date:** 7/19/2005 10:31:00 AM
Client Sample ID: 426-Pb-3 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/22/2005**		Analyst: **JG**
Lead	740	1.1		mg/Kg-dry	10	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	11.0	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-022 **Collection Date:** 7/19/2005 10:38:00 AM
Client Sample ID: 430-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/22/2005**		Analyst: **JG**
Lead	520	1		mg/Kg-dry	10	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	0.96	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-023 **Collection Date:** 7/19/2005 10:34:00 AM
Client Sample ID: 430-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/22/2005**		Analyst: **JG**
Lead	600	1		mg/Kg-dry	10	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	9.48	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-024 **Collection Date:** 7/19/2005 10:53:00 AM
Client Sample ID: 421-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	920	1.1		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	12.0	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: 3205050441.03, Forest City-Ft Sheridan **Lab Order:** 0507584

Lab ID: 0507584-025 **Collection Date:** 7/19/2005 10:54:00 AM
Client Sample ID: 425-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	1200	1		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	10.4	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-026 **Collection Date:** 7/19/2005 10:55:00 AM
Client Sample ID: 425-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	2600	1		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	4.74	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-027 **Collection Date:** 7/19/2005 10:58:00 AM
Client Sample ID: 420-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	860	1		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	7.62	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-028 **Collection Date:** 7/19/2005 10:59:00 AM
Client Sample ID: 420-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	6300	10		mg/Kg-dry	100	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	3.78	0.01	*	wt%	1	7/26/2005

Qualifiers:
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- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
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- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: 3205050441.03, Forest City-Ft Sheridan **Lab Order:** 0507584

Lab ID: 0507584-029 **Collection Date:** 7/19/2005 11:00:00 AM
Client Sample ID: 420-Pb-3 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	520	1.1		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	13.4	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-030 **Collection Date:** 7/19/2005 11:07:00 AM
Client Sample ID: 424-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	870	1		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	10.8	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-031 **Collection Date:** 7/19/2005 11:08:00 AM
Client Sample ID: 424-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	580	1.1		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	7.33	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-032 **Collection Date:** 7/19/2005 11:10:00 AM
Client Sample ID: 424-Pb-3 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	1400	1		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	1.14	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
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E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: 3205050441.03, Forest City-Ft Sheridan **Lab Order:** 0507584

Lab ID: 0507584-033 **Collection Date:** 7/19/2005 11:11:00 AM
Client Sample ID: 424-Pb-4 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	2100	1.1		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	9.12	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-034 **Collection Date:** 7/19/2005 11:14:00 AM
Client Sample ID: 428-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	1800	1.1		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	13.9	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-035 **Collection Date:** 7/19/2005 11:15:00 AM
Client Sample ID: 428-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	1400	1.1		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	12.2	0.01	*	wt%	1	7/26/2005

Lab ID: 0507584-036 **Collection Date:** 7/19/2005 11:23:00 AM
Client Sample ID: 440-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	150	1.1		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	13.4	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: 3205050441.03, Forest City-Ft Sheridan **Lab Order:** 0507584

Lab ID: 0507584-037 **Collection Date:** 7/19/2005 11:28:00 AM
Client Sample ID: 441-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/26/2005**		Analyst: **JG**
Lead	570	1		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	13.5	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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e-mail address: STATinfo@STATAnalysis.com AIHA 10248, NVLAP 101202-0, NEALP 100445

CHAIN OF CUSTODY RECORD

№: 810384 Page: 1 of 2

Company: MACTEC
Project Number: 3205050441.03 Client Tracking No.:
Project Name: Forest City
Location/Address: Ft. Sheridan
Sampler(s): Dennis Nagg
Report To: Dennis Nagg Phone:
QC Level: 1 X 2 ___ 3 ___ 4 ___ Fax:
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other:

P.O. No.:
Quote No.:

Turn Around:
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Lead	Remarks	Lab No.
445-Pb-1	7/19/05	0932			X		1	X		001
495-Pb-1		0935								002
447-Pb-1		0937								003
447-Pb-2		0939								004
447-Pb-3		0942								005
423-Pb-1		1005								006
423-Pb-2		1008								007
423-Pb-3		1010								008
423-Pb-4		1012								009
427-Pb-1		1013								010
427-Pb-2		1014								011
427-Pb-3		1015								012
431-Pb-1		1019								013
431-Pb-2		1021								014
431-Pb-3		1022								015
422-Pb-1		1026								016
422-Pb-2		1027								017
422-Pb-3		1028								018
426-Pb-1		1029								019
426-Pb-2		1030								020

Relinquished by: (Signature)	Dennis G. Nagg	Date/Time:	7/19/05 16:30
Received by: (Signature)	Sul Bowley	Date/Time:	7-19-05 5
Relinquished by: (Signature)	Sul Bowley	Date/Time:	7-19-05 6:1
Received for lab by: (Signature)	[signature]	Date/Time:	7/19/05 18
Relinquished by: (Signature)		Date/Time:	

Laboratory Use: Sample Verification:
Container OK Yes No
Samples Leaking Yes No
Refrigerated (Temp) Yes No
Sample Labels Match Sample ID Yes No

Work Order No. 0501384

Preservation Code:
A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore

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e-mail address: STATInfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

NVLAP

Nº: _____

CHAIN OF CUSTODY RECORD

Client Name: MACTEC
Project Number:
Project Name:
Location/Address:
Samplers:

TYPE OF ANALYSES

Turnaround Time: (days)

Results Needed: / / am/pm

Client Sample No.:	Sample Description	Date Taken	Time Taken	Comp.	Grab	No. of Containers	Lead	Remarks	Lab No.
	426-Pb-3	7/19/05	1031		X	1	X		021
	430-Pb-1		1033						022
	430-Pb-2		1034						023
	421-Pb-1		1053						024
	425-Pb-1		1054						025
	425-Pb-2		1055						026
	420-Pb-1		1058						027
	420-Pb-2		1059						028
	420-Pb-3		1100						029
	424-Pb-1		1107						030
	424-Pb-2		1108						031
	424-Pb-3		1110						032
	424-Pb-4		1111						033
	428-Pb-1		1114						034
	428-Pb-2		1115						035
	440-Pb-1		1123						036
	441-Pb-1		1128						037
								0507584	

Relinquished by: (Signature)	Dennis E. Hagg	Date/Time: 7/19/05 1600
Received by: (Signature)	Guy Baker	Date/Time: 7-19-05 5:15
Relinquished by: (Signature)	Guy Baker	Date/Time: 7-19-05 6:17
Received for lab by: (Signature)	[illegible]	Date/Time: 7/19/05 18:17
Relinquished by: (Signature)		Date/Time:

Lab Use:
- Containers Off: Yes No
- Samples Leaking: Yes No
- Refrigerated (Temp): 6°C Yes No
- Sample Labels Match Sample ID: Yes No

Sample Verification

Contact Information:
Phone Number:
Fax Number:
Attention:
Other Contact:

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC | Date and Time Received: 07/19/2005

Work Order Numbe 0507584 | Received by: JC

Checklist completed by: Jesus Cant (Signature) 7/19/05 (Date) | Reviewed by: cc (Initials) 7/27/05 (Date)

Matrix | Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 6 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☐	

Adjusted? ____ Checked by ____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted ____ Date contacted: ____ Person contacted ____

Contacted by: ____ Regarding ____

Comments:

Corrective Action

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July 27, 2005

Checked & OK
DGN 8/18/05

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5440 N. Cumberland Avenue
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Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205050441.03, Forest City-Ft. Sheridan STAT Project No: 0507582

Dear Dennis Nagg:

STAT Analysis received 8 samples for the referenced project on 7/19/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: July 27, 2005

Client:	MACTEC Engineering and Consulting, Inc.
Project:	3205050441.03, Forest City-Ft. Sheridan
Lab Order:	0507582

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0507582-001A	440-A		7/15/2005 11:45:00 AM	7/19/2005
0507582-001B	440-A		7/15/2005 11:45:00 AM	7/19/2005
0507582-002A	493-A		7/15/2005 12:10:00 PM	7/19/2005
0507582-002B	493-A		7/15/2005 12:10:00 PM	7/19/2005
0507582-003A	420-A		7/15/2005 12:25:00 PM	7/19/2005
0507582-003B	420-A		7/15/2005 12:25:00 PM	7/19/2005
0507582-004A	424-A		7/15/2005 12:40:00 PM	7/19/2005
0507582-004B	424-A		7/15/2005 12:40:00 PM	7/19/2005
0507582-005A	425-A		7/15/2005 12:55:00 PM	7/19/2005
0507582-005B	425-A		7/15/2005 12:55:00 PM	7/19/2005
0507582-006A	428-A		7/15/2005 1:15:00 PM	7/19/2005
0507582-006B	428-A		7/15/2005 1:15:00 PM	7/19/2005
0507582-007A	429-A		7/15/2005 1:20:00 PM	7/19/2005
0507582-007B	429-A		7/15/2005 1:20:00 PM	7/19/2005
0507582-008A	421-A		7/15/2005 1:50:00 PM	7/19/2005
0507582-008B	421-A		7/15/2005 1:50:00 PM	7/19/2005

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507582
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507582-001

Client Sample ID: 440-A
Collection Date: 7/15/2005 11:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.04		mg/Kg-dry	10	7/26/2005
Acenaphthylene	ND	0.04		mg/Kg-dry	10	7/26/2005
Anthracene	ND	0.04		mg/Kg-dry	10	7/26/2005
Benz(a)anthracene	ND	0.04		mg/Kg-dry	10	7/26/2005
Benzo(a)pyrene	ND	0.04		mg/Kg-dry	10	7/26/2005
Benzo(b)fluoranthene	ND	0.04		mg/Kg-dry	10	7/26/2005
Benzo(g,h,i)perylene	ND	0.04		mg/Kg-dry	10	7/26/2005
Benzo(k)fluoranthene	ND	0.04		mg/Kg-dry	10	7/26/2005
Chrysene	ND	0.04		mg/Kg-dry	10	7/26/2005
Dibenz(a,h)anthracene	ND	0.04		mg/Kg-dry	10	7/26/2005
Fluoranthene	ND	0.04		mg/Kg-dry	10	7/26/2005
Fluorene	ND	0.04		mg/Kg-dry	10	7/26/2005
Indeno(1,2,3-cd)pyrene	ND	0.04		mg/Kg-dry	10	7/26/2005
Naphthalene	ND	0.04		mg/Kg-dry	10	7/26/2005
Phenanthrene	ND	0.04		mg/Kg-dry	10	7/26/2005
Pyrene	ND	0.04		mg/Kg-dry	10	7/26/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0051		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0051		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0051		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	17.8	0.01	*	wt%	1	7/25/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507582
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507582-002

Client Sample ID: 493-A
Collection Date: 7/15/2005 12:10:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/22/2005**		Analyst: **VS**
Acenaphthene	0.095	0.029		mg/Kg-dry	1	7/25/2005
Acenaphthylene	0.057	0.029		mg/Kg-dry	1	7/25/2005
Anthracene	0.38	0.29		mg/Kg-dry	10	7/26/2005
Benz(a)anthracene	0.42	0.29		mg/Kg-dry	10	7/26/2005
Benzo(a)pyrene	0.33	0.29		mg/Kg-dry	10	7/26/2005
Benzo(b)fluoranthene	0.46	0.29		mg/Kg-dry	10	7/26/2005
Benzo(g,h,i)perylene	0.1	0.029		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	0.14	0.029		mg/Kg-dry	1	7/25/2005
Chrysene	0.35	0.29		mg/Kg-dry	10	7/26/2005
Dibenz(a,h)anthracene	0.038	0.029		mg/Kg-dry	1	7/25/2005
Fluoranthene	0.92	0.29		mg/Kg-dry	10	7/26/2005
Fluorene	0.35	0.29		mg/Kg-dry	10	7/26/2005
Indeno(1,2,3-cd)pyrene	0.11	0.029		mg/Kg-dry	1	7/25/2005
Naphthalene	0.15	0.029		mg/Kg-dry	1	7/25/2005
Phenanthrene	1.1	0.29		mg/Kg-dry	10	7/26/2005
Pyrene	0.7	0.29		mg/Kg-dry	10	7/26/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0049		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0049		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0049		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	13.8	0.01	*	wt%	1	7/25/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507582
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507582-003

Client Sample ID: 420-A
Collection Date: 7/15/2005 12:25:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/25/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	16.0	0.01	*	wt%	1	7/25/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507582
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507582-004

Client Sample ID: 424-A
Collection Date: 7/15/2005 12:40:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/25/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0057		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0057		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	15.8	0.01	*	wt%	1	7/25/2005

Qualifiers:
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507582
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507582-005

Client Sample ID: 425-A
Collection Date: 7/15/2005 12:55:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/22/2005**		Analyst: **VS**
Acenaphthene	0.18	0.03		mg/Kg-dry	1	7/25/2005
Acenaphthylene	0.48	0.3		mg/Kg-dry	10	7/26/2005
Anthracene	0.2	0.03		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.03		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	7/25/2005
Fluorene	1.3	0.3		mg/Kg-dry	10	7/26/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	7/25/2005
Naphthalene	3.4	0.3		mg/Kg-dry	10	7/26/2005
Phenanthrene	0.53	0.3		mg/Kg-dry	10	7/26/2005
Pyrene	0.045	0.03		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Ethylbenzene	0.12	0.0046		mg/Kg-dry	1	7/22/2005
Xylenes, Total	0.1	0.013		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	17.3	0.01	*	wt%	1	7/25/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507582
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507582-006

Client Sample ID: 428-A
Collection Date: 7/15/2005 1:15:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/25/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.013		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	11.1	0.01	*	wt%	1	7/25/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507582
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507582-007

Client Sample ID: 429-A
Collection Date: 7/15/2005 1:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/25/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	12.4	0.01	*	wt%	1	7/25/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507582
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507582-008

Client Sample ID: 421-A
Collection Date: 7/15/2005 1:50:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/22/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/25/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.005		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.005		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.005		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	15.7	0.01	*	wt%	1	7/25/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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NVLAP

Nº:

CHAIN OF CUSTODY RECORD

Page : 1 of 1

Client Name: MACTEC
Project Number: 3205050441.03
Project Name: FOREST CITY - FT. SHERIDAN
Location/Address: 5440 N. Cumberland Ave, Ste 250 Chicago 60656
Samplers: Dennis Nagg

TYPE OF ANALYSES

Turnaround Time: (days)
Results Needed: / / am/pm

Client Sample No.:	Sample Description	Date Taken	Time Taken	Comp.	Grab	No. of Containers	PNAS	BTEX	Remarks	Lab No.
	440-A	7/15/05	1145		X	4	X	X		001
	493-A		1210							002
	420-A		1225							003
	424-A		1240							004
	425-A		1255						Expect BTEX	005
	428-A		1315							006
	429-A		1320							007
	421-A	7/15/05	1350		X	4	X	X		008

0507582

Relinquished by: (Signature)	Dennis Nagg	Date/Time:	7/15/05 1535
Received by: (Signature)	Sal Bonnet	Date/Time:	7-19-05 5:15
Relinquished by: (Signature)	Sal Bonnet	Date/Time:	7-19-05 6:20
Received for lab by: (Signature)	Jesus C.	Date/Time:	7/19/05 1820
Relinquished by: (Signature)		Date/Time:	

Lab. User:
- Containers OK — Sample Verification: Yes / No
- Samples Leaking — Yes / No X
- Refrigerated (Temp: 6 °C) — Yes X / No
- Sample Labels Match Sample ID — Yes / No

Contact Information:
Phone Number:
Fax Number:
Attention:
Other Contact:

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC

Date and Time Received: 07/19/2005

Work Order Numbe 0507582

Received by: JC

Checklist completed by: Jesus Cart (Signature) 7/15/05 (Date)

Reviewed by: [illegible] (Initials) 7/27/05 (Date)

Matrix

Carrier name Client Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 6 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

STAT Analysis Corporation
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Checked & OK
DEN 8/18/05

July 27, 2005

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205050441.03, Forest City-Ft. Sheridan STAT Project No: 0507586

Dear Dennis Nagg:

STAT Analysis received 12 samples for the referenced project on 7/19/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab Order: 0507586

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0507586-001A	642-Pb-1		7/18/2005 12:25:00 PM	7/19/2005
0507586-002A	660-Pb-1		7/18/2005 12:42:00 PM	7/19/2005
0507586-003A	660-Pb-2		7/18/2005 12:45:00 PM	7/19/2005
0507586-004A	660-Pb-3		7/18/2005 12:47:00 PM	7/19/2005
0507586-005A	661-Pb-1		7/18/2005 12:49:00 PM	7/19/2005
0507586-006A	664-Pb-1		7/18/2005 12:51:00 PM	7/19/2005
0507586-007A	663-Pb-1		7/18/2005 12:54:00 PM	7/19/2005
0507586-008A	663-Pb-2		7/18/2005 12:57:00 PM	7/19/2005
0507586-009A	657-Pb-1		7/18/2005 1:03:00 PM	7/19/2005
0507586-010A	652-Pb-1		7/18/2005 1:05:00 PM	7/19/2005
0507586-011A	652-Pb-2		7/18/2005 1:08:00 PM	7/19/2005
0507586-012A	652-Pb-3		7/18/2005 1:10:00 PM	7/19/2005

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: 3205050441.03, Forest City-Ft. Sheridan **Lab Order:** 0507586

Lab ID: 0507586-001 **Collection Date:** 7/18/2005 12:25:00 PM
Client Sample ID: 642-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	12000	5		mg/Kg-dry	100	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	3.57	0.01	*	wt%	1	7/26/2005

Lab ID: 0507586-002 **Collection Date:** 7/18/2005 12:42:00 PM
Client Sample ID: 660-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	2200	0.49		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	6.75	0.01	*	wt%	1	7/26/2005

Lab ID: 0507586-003 **Collection Date:** 7/18/2005 12:45:00 PM
Client Sample ID: 660-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	4900	0.52		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	2.99	0.01	*	wt%	1	7/26/2005

Lab ID: 0507586-004 **Collection Date:** 7/18/2005 12:47:00 PM
Client Sample ID: 660-Pb-3 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	9800	5.1		mg/Kg-dry	100	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	4.48	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: 3205050441.03, Forest City-Ft. Sheridan **Lab Order:** 0507586

Lab ID: 0507586-005 **Collection Date:** 7/18/2005 12:49:00 PM
Client Sample ID: 661-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	3000	0.52		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	5.11	0.01	*	wt%	1	7/26/2005

Lab ID: 0507586-006 **Collection Date:** 7/18/2005 12:51:00 PM
Client Sample ID: 664-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	2200	0.5		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	4.21	0.01	*	wt%	1	7/26/2005

Lab ID: 0507586-007 **Collection Date:** 7/18/2005 12:54:00 PM
Client Sample ID: 663-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	4800	0.52		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	10.9	0.01	*	wt%	1	7/26/2005

Lab ID: 0507586-008 **Collection Date:** 7/18/2005 12:57:00 PM
Client Sample ID: 663-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	960	0.51		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	3.29	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 27, 2005
Date Printed: July 27, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: 3205050441.03, Forest City-Ft. Sheridan **Lab Order:** 0507586

Lab ID: 0507586-009 **Collection Date:** 7/18/2005 1:03:00 PM
Client Sample ID: 657-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	4000	0.48		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	4.16	0.01	*	wt%	1	7/26/2005

Lab ID: 0507586-010 **Collection Date:** 7/18/2005 1:05:00 PM
Client Sample ID: 652-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	1000	0.51		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	4.56	0.01	*	wt%	1	7/26/2005

Lab ID: 0507586-011 **Collection Date:** 7/18/2005 1:08:00 PM
Client Sample ID: 652-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	1400	0.49		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	2.83	0.01	*	wt%	1	7/26/2005

Lab ID: 0507586-012 **Collection Date:** 7/18/2005 1:10:00 PM
Client Sample ID: 652-Pb-3 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **7/21/2005**		Analyst: **JG**
Lead	160	0.49		mg/Kg-dry	10	7/21/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	3.85	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Nº:

CHAIN OF CUSTODY RECORD

Page : 1 of 1

Client Name: MACTEC
Project Number: 3205050441.03
Project Name: FOREST CITY - FT SHERIDAN
Location/Address:
Samplers: Dennis Nagg

TYPE OF ANALYSES

Turnaround Time: (days)
Results Needed: / / am/pm

Client Sample No.:	Sample Description	Date Taken	Time Taken	Comp.	Grab	No. of Containers	Lead	Remarks	Lab No.
	642-Pb-1	7/18/05	1225		X	1	X		001
	660-Pb-1		1242						002
	660-Pb-2		1245						003
	660-Pb-3		1247						004
	661-Pb-1		1249						005
	664-Pb-1		1251						006
	663-Pb-1		1254						007
	663-Pb-2		1257						008
	657-Pb-1		1303						009
	652-Pb-1		1305						010
	652-Pb-2		1308						011
	652-Pb-3		1310						012
								0507586	

Relinquished by: (Signature)	Dennis S. Nagg	Date/Time:	7/18/05 1545
Received by: (Signature)	[illegible]	Date/Time:	7-19-05 5:14
Relinquished by: (Signature)	[illegible]	Date/Time:	7-19-05 6:22
Received for lab by: (Signature)	Jesus [illegible]	Date/Time:	7/19/05 1622
Relinquished by: (Signature)		Date/Time:	

Lab. Use:
- Containers Off: Yes [X] No [ ]
- Samples Leaking: Yes [ ] No [X]
- Refrigerated (Temp. 6.0): Yes [X] No [ ]
- Sample Labels Match Sample ID: Yes [X] No [ ]

Sample Verification

Contact Information:
Phone Number:
Fax Number:
Attention:
Other Contact:

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC

Date and Time Received: 07/19/2005

Work Order Numbe 0507586

Received by: JC

Checklist completed by: Jesus Cant (Signature) 7/19/05 (Date)

Reviewed by: a (Initials) 7/27/05 (Date)

Matrix

Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 6 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☐	

Adjusted? Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted Date contacted: Person contacted

Contacted by: Regarding

Comments:

Corrective Action

STAT Analysis Corporation
2255 West Harrison St., Suite B, Chicago, IL 60612-3505
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

July 29, 2005

Checked & OK
DJN 8/18/05

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205050441.03, Forest City-Ft. Sheridan STAT Project No: 0507587

Dear Dennis Nagg:

STAT Analysis received 14 samples for the referenced project on 7/19/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone.This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab Order: 0507587

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0507587-001A	423-A		7/18/2005 8:20:00 AM	7/19/2005
0507587-001B	423-A		7/18/2005 8:20:00 AM	7/19/2005
0507587-002A	422-A		7/18/2005 8:35:00 AM	7/19/2005
0507587-002B	422-A		7/18/2005 8:35:00 AM	7/19/2005
0507587-003A	426-A		7/18/2005 8:50:00 AM	7/19/2005
0507587-003B	426-A		7/18/2005 8:50:00 AM	7/19/2005
0507587-004A	427-A		7/18/2005 9:10:00 AM	7/19/2005
0507587-004B	427-A		7/18/2005 9:10:00 AM	7/19/2005
0507587-005A	430-A		7/18/2005 9:25:00 AM	7/19/2005
0507587-005B	430-A		7/18/2005 9:25:00 AM	7/19/2005
0507587-006A	431-A		7/18/2005 9:45:00 AM	7/19/2005
0507587-006B	431-A		7/18/2005 9:45:00 AM	7/19/2005
0507587-007A	663-A		7/18/2005 10:10:00 AM	7/19/2005
0507587-007B	663-A		7/18/2005 10:10:00 AM	7/19/2005
0507587-008A	664-A		7/18/2005 10:25:00 AM	7/19/2005
0507587-008B	664-A		7/18/2005 10:25:00 AM	7/19/2005
0507587-009A	660-A		7/18/2005 10:45:00 AM	7/19/2005
0507587-009B	660-A		7/18/2005 10:45:00 AM	7/19/2005
0507587-010A	642-A		7/18/2005 11:10:00 AM	7/19/2005
0507587-010B	642-A		7/18/2005 11:10:00 AM	7/19/2005
0507587-011A	SR-1		7/18/2005 1:21:00 PM	7/19/2005
0507587-012A	SR-2		7/18/2005 1:30:00 PM	7/19/2005
0507587-013A	SR-3		7/18/2005 1:45:00 PM	7/19/2005
0507587-014A	SR-4		7/18/2005 1:48:00 PM	7/19/2005

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-001

Client Sample ID: 423-A
Collection Date: 7/18/2005 8:20:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.03		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.03		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.03		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	7/25/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	7/25/2005
Pyrene	ND	0.03		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.005		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.005		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.005		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	16.4	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-002

Client Sample ID: 422-A
Collection Date: 7/18/2005 8:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Anthracene	0.054	0.028		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	0.046	0.028		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Chrysene	0.048	0.028		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Fluoranthene	0.062	0.028		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Naphthalene	0.36	0.028		mg/Kg-dry	1	7/25/2005
Phenanthrene	0.25	0.028		mg/Kg-dry	1	7/25/2005
Pyrene	0.082	0.028		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0043		mg/Kg-dry	1	7/22/2005
Toluene	0.0044	0.0043		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0043		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.012		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	10.7	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-003

Client Sample ID: 426-A
Collection Date: 7/18/2005 8:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/25/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0065		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0065		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0065		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.02		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	15.2	0.01	*	wt%	1	7/25/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-004

Client Sample ID: 427-A
Collection Date: 7/18/2005 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/25/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0056		mg/Kg-dry	1	7/22/2005
Toluene	0.0084	0.0056		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	13.9	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-005

Client Sample ID: 430-A
Collection Date: 7/18/2005 9:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/25/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0041		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0041		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0041		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.012		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	11.2	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-006

Client Sample ID: 431-A
Collection Date: 7/18/2005 9:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	7/25/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	15.2	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-007

Client Sample ID: 663-A
Collection Date: 7/18/2005 10:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/25/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0066		mg/Kg-dry	1	7/22/2005
Toluene	0.0073	0.0066		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0066		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.019		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	12.6	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-008

Client Sample ID: 664-A
Collection Date: 7/18/2005 10:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/25/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0079		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0079		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0079		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.024		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	12.6	0.01	*	wt%	1	7/26/2005

Qualifiers:
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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-009

Client Sample ID: 660-A
Collection Date: 7/18/2005 10:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.028		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/25/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0045		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0045		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0045		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	11.9	0.01	*	wt%	1	7/26/2005

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-010

Client Sample ID: 642-A
Collection Date: 7/18/2005 11:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	0.037	0.028		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	0.037	0.028		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	7/25/2005
Chrysene	0.045	0.028		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	7/25/2005
Fluoranthene	0.082	0.028		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.028		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	7/25/2005
Phenanthrene	0.06	0.028		mg/Kg-dry	1	7/25/2005
Pyrene	0.068	0.028		mg/Kg-dry	1	7/25/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **7/20/2005**		Analyst: **MP**
Benzene	ND	0.0074		mg/Kg-dry	1	7/22/2005
Toluene	ND	0.0074		mg/Kg-dry	1	7/22/2005
Ethylbenzene	ND	0.0074		mg/Kg-dry	1	7/22/2005
Xylenes, Total	ND	0.023		mg/Kg-dry	1	7/22/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	12.6	0.01	*	wt%	1	7/26/2005

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-011

Client Sample ID: SR-1
Collection Date: 7/18/2005 1:21:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides	**SW8081 (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **ERP**
4,4'-DDD	3.7	0.31		mg/Kg-dry	50	7/27/2005
4,4'-DDE	1.1	0.31		mg/Kg-dry	50	7/27/2005
4,4'-DDT	0.97	0.31		mg/Kg-dry	50	7/27/2005
Aldrin	ND	0.003		mg/Kg-dry	1	7/26/2005
alpha-BHC	ND	0.003		mg/Kg-dry	1	7/26/2005
alpha-Chlordane	ND	0.003		mg/Kg-dry	1	7/26/2005
beta-BHC	ND	0.003		mg/Kg-dry	1	7/26/2005
Chlordane	ND	0.15		mg/Kg-dry	1	7/26/2005
delta-BHC	ND	0.003		mg/Kg-dry	1	7/26/2005
Dieldrin	ND	0.0062		mg/Kg-dry	1	7/26/2005
Endosulfan I	ND	0.003		mg/Kg-dry	1	7/26/2005
Endosulfan II	ND	0.0062		mg/Kg-dry	1	7/26/2005
Endosulfan sulfate	ND	0.0062		mg/Kg-dry	1	7/26/2005
Endrin	ND	0.0062		mg/Kg-dry	1	7/26/2005
Endrin aldehyde	ND	0.0062		mg/Kg-dry	1	7/26/2005
Endrin ketone	ND	0.0062		mg/Kg-dry	1	7/26/2005
gamma-BHC	ND	0.003		mg/Kg-dry	1	7/26/2005
gamma-Chlordane	ND	0.003		mg/Kg-dry	1	7/26/2005
Heptachlor	ND	0.003		mg/Kg-dry	1	7/26/2005
Heptachlor epoxide	ND	0.003		mg/Kg-dry	1	7/26/2005
Methoxychlor	ND	0.003		mg/Kg-dry	1	7/26/2005
Toxaphene	ND	0.19		mg/Kg-dry	1	7/26/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	0.78	0.061		mg/Kg-dry	10	7/26/2005
Acenaphthylene	ND	0.061		mg/Kg-dry	10	7/26/2005
Anthracene	1.6	0.061		mg/Kg-dry	10	7/26/2005
Benz(a)anthracene	5.3	0.061		mg/Kg-dry	10	7/26/2005
Benzo(a)pyrene	3.9	0.061		mg/Kg-dry	10	7/26/2005
Benzo(b)fluoranthene	5.1	0.061		mg/Kg-dry	10	7/26/2005
Benzo(g,h,i)perylene	2.5	0.061		mg/Kg-dry	10	7/26/2005
Benzo(k)fluoranthene	4	0.061		mg/Kg-dry	10	7/26/2005
Chrysene	6	0.61		mg/Kg-dry	100	7/26/2005
Dibenz(a,h)anthracene	0.85	0.061		mg/Kg-dry	10	7/26/2005
Fluoranthene	13	0.61		mg/Kg-dry	100	7/26/2005
Fluorene	1	0.061		mg/Kg-dry	10	7/26/2005
Indeno(1,2,3-cd)pyrene	2.6	0.061		mg/Kg-dry	10	7/26/2005
Naphthalene	0.24	0.061		mg/Kg-dry	10	7/26/2005
Phenanthrene	8.7	0.61		mg/Kg-dry	100	7/26/2005

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-011

Client Sample ID: SR-1
Collection Date: 7/18/2005 1:21:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**				Prep Date: **7/25/2005**	Analyst: **VS**
Pyrene	9.5	0.61		mg/Kg-dry	100	7/26/2005
Percent Moisture	**D2974**				Prep Date: **7/25/2005**	Analyst: **RW**
Percent Moisture	47.2	0.01	*	wt%	1	7/26/2005

Qualifiers:
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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-012

Client Sample ID: SR-2
Collection Date: 7/18/2005 1:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		**SW8081 (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **ERP**
4,4'-DDD	11	0.85		mg/Kg-dry	200	7/28/2005
4,4'-DDE	0.35	0.085		mg/Kg-dry	20	7/27/2005
4,4'-DDT	0.75	0.085		mg/Kg-dry	20	7/27/2005
Aldrin	ND	0.0021		mg/Kg-dry	1	7/26/2005
alpha-BHC	ND	0.0021		mg/Kg-dry	1	7/26/2005
alpha-Chlordane	ND	0.0021		mg/Kg-dry	1	7/26/2005
beta-BHC	ND	0.0021		mg/Kg-dry	1	7/26/2005
Chlordane	ND	0.1		mg/Kg-dry	1	7/26/2005
delta-BHC	ND	0.0021		mg/Kg-dry	1	7/26/2005
Dieldrin	ND	0.0043		mg/Kg-dry	1	7/26/2005
Endosulfan I	ND	0.0021		mg/Kg-dry	1	7/26/2005
Endosulfan II	ND	0.0043		mg/Kg-dry	1	7/26/2005
Endosulfan sulfate	ND	0.0043		mg/Kg-dry	1	7/26/2005
Endrin	ND	0.0043		mg/Kg-dry	1	7/26/2005
Endrin aldehyde	ND	0.0043		mg/Kg-dry	1	7/26/2005
Endrin ketone	ND	0.0043		mg/Kg-dry	1	7/26/2005
gamma-BHC	ND	0.0021		mg/Kg-dry	1	7/26/2005
gamma-Chlordane	ND	0.0021		mg/Kg-dry	1	7/26/2005
Heptachlor	ND	0.0021		mg/Kg-dry	1	7/26/2005
Heptachlor epoxide	ND	0.0021		mg/Kg-dry	1	7/26/2005
Methoxychlor	ND	0.0021		mg/Kg-dry	1	7/26/2005
Toxaphene	ND	0.13		mg/Kg-dry	1	7/26/2005
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.043		mg/Kg-dry	10	7/26/2005
Acenaphthylene	ND	0.043		mg/Kg-dry	10	7/26/2005
Anthracene	0.061	0.043		mg/Kg-dry	10	7/26/2005
Benz(a)anthracene	0.17	0.043		mg/Kg-dry	10	7/26/2005
Benzo(a)pyrene	0.15	0.043		mg/Kg-dry	10	7/26/2005
Benzo(b)fluoranthene	0.14	0.043		mg/Kg-dry	10	7/26/2005
Benzo(g,h,i)perylene	0.1	0.043		mg/Kg-dry	10	7/26/2005
Benzo(k)fluoranthene	0.15	0.043		mg/Kg-dry	10	7/26/2005
Chrysene	0.18	0.043		mg/Kg-dry	10	7/26/2005
Dibenz(a,h)anthracene	ND	0.043		mg/Kg-dry	10	7/26/2005
Fluoranthene	0.4	0.043		mg/Kg-dry	10	7/26/2005
Fluorene	ND	0.043		mg/Kg-dry	10	7/26/2005
Indeno(1,2,3-cd)pyrene	0.097	0.043		mg/Kg-dry	10	7/26/2005
Naphthalene	ND	0.043		mg/Kg-dry	10	7/26/2005
Phenanthrene	0.23	0.043		mg/Kg-dry	10	7/26/2005

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-012

Client Sample ID: SR-2
Collection Date: 7/18/2005 1:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Pyrene	0.31	0.043		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	24.5	0.01	*	wt%	1	7/26/2005

Qualifiers:
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* - Non-accredited parameter
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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-013

Client Sample ID: SR-3
Collection Date: 7/18/2005 1:45:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		**SW8081 (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **ERP**
4,4'-DDD	0.46	0.039		mg/Kg-dry	10	7/28/2005
4,4'-DDE	0.016	0.0039		mg/Kg-dry	1	7/26/2005
4,4'-DDT	0.1	0.039		mg/Kg-dry	10	7/28/2005
Aldrin	ND	0.0019		mg/Kg-dry	1	7/26/2005
alpha-BHC	ND	0.0019		mg/Kg-dry	1	7/26/2005
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	7/26/2005
beta-BHC	ND	0.0019		mg/Kg-dry	1	7/26/2005
Chlordane	ND	0.095		mg/Kg-dry	1	7/26/2005
delta-BHC	ND	0.0019		mg/Kg-dry	1	7/26/2005
Dieldrin	ND	0.0039		mg/Kg-dry	1	7/26/2005
Endosulfan I	ND	0.0019		mg/Kg-dry	1	7/26/2005
Endosulfan II	ND	0.0039		mg/Kg-dry	1	7/26/2005
Endosulfan sulfate	ND	0.0039		mg/Kg-dry	1	7/26/2005
Endrin	ND	0.0039		mg/Kg-dry	1	7/26/2005
Endrin aldehyde	ND	0.0039		mg/Kg-dry	1	7/26/2005
Endrin ketone	ND	0.0039		mg/Kg-dry	1	7/26/2005
gamma-BHC	ND	0.0019		mg/Kg-dry	1	7/26/2005
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	7/26/2005
Heptachlor	ND	0.0019		mg/Kg-dry	1	7/26/2005
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	7/26/2005
Methoxychlor	ND	0.0019		mg/Kg-dry	1	7/26/2005
Toxaphene	ND	0.12		mg/Kg-dry	1	7/26/2005
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	0.081	0.038		mg/Kg-dry	10	7/26/2005
Acenaphthylene	ND	0.038		mg/Kg-dry	10	7/26/2005
Anthracene	0.18	0.038		mg/Kg-dry	10	7/26/2005
Benz(a)anthracene	0.68	0.038		mg/Kg-dry	10	7/26/2005
Benzo(a)pyrene	0.51	0.038		mg/Kg-dry	10	7/26/2005
Benzo(b)fluoranthene	0.52	0.038		mg/Kg-dry	10	7/26/2005
Benzo(g,h,i)perylene	0.25	0.038		mg/Kg-dry	10	7/26/2005
Benzo(k)fluoranthene	0.51	0.038		mg/Kg-dry	10	7/26/2005
Chrysene	0.74	0.038		mg/Kg-dry	10	7/26/2005
Dibenz(a,h)anthracene	0.096	0.038		mg/Kg-dry	10	7/26/2005
Fluoranthene	1.4	0.038		mg/Kg-dry	10	7/26/2005
Fluorene	0.062	0.038		mg/Kg-dry	10	7/26/2005
Indeno(1,2,3-cd)pyrene	0.26	0.038		mg/Kg-dry	10	7/26/2005
Naphthalene	ND	0.038		mg/Kg-dry	10	7/26/2005
Phenanthrene	0.89	0.038		mg/Kg-dry	10	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
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HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-013

Client Sample ID: SR-3
Collection Date: 7/18/2005 1:45:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Pyrene	1.2	0.038		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	15.5	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-014

Client Sample ID: SR-4
Collection Date: 7/18/2005 1:48:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		**SW8081 (SW3550B)**			Prep Date: **7/25/2005**	Analyst: **ERP**
4,4'-DDD	0.086	0.0077		mg/Kg-dry	2	7/28/2005
4,4'-DDE	0.0058	0.0039		mg/Kg-dry	1	7/28/2005
4,4'-DDT	0.0043	0.0039		mg/Kg-dry	1	7/28/2005
Aldrin	ND	0.0019		mg/Kg-dry	1	7/28/2005
alpha-BHC	ND	0.0019		mg/Kg-dry	1	7/28/2005
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	7/28/2005
beta-BHC	ND	0.0019		mg/Kg-dry	1	7/28/2005
Chlordane	ND	0.094		mg/Kg-dry	1	7/28/2005
delta-BHC	ND	0.0019		mg/Kg-dry	1	7/28/2005
Dieldrin	ND	0.0039		mg/Kg-dry	1	7/28/2005
Endosulfan I	ND	0.0019		mg/Kg-dry	1	7/28/2005
Endosulfan II	ND	0.0039		mg/Kg-dry	1	7/28/2005
Endosulfan sulfate	ND	0.0039		mg/Kg-dry	1	7/28/2005
Endrin	ND	0.0039		mg/Kg-dry	1	7/28/2005
Endrin aldehyde	ND	0.0039		mg/Kg-dry	1	7/28/2005
Endrin ketone	ND	0.0039		mg/Kg-dry	1	7/28/2005
gamma-BHC	ND	0.0019		mg/Kg-dry	1	7/28/2005
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	7/28/2005
Heptachlor	ND	0.0019		mg/Kg-dry	1	7/28/2005
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	7/28/2005
Methoxychlor	ND	0.0019		mg/Kg-dry	1	7/28/2005
Toxaphene	ND	0.12		mg/Kg-dry	1	7/28/2005
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**	Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Chrysene	ND	0.029		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	7/25/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.029		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Naphthalene	0.061	0.029		mg/Kg-dry	1	7/25/2005
Phenanthrene	0.071	0.029		mg/Kg-dry	1	7/25/2005

Qualifiers:
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* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507587
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507587-014

Client Sample ID: SR-4
Collection Date: 7/18/2005 1:48:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Pyrene	ND	0.029		mg/Kg-dry	1	7/25/2005
Percent Moisture	**D2974**			Prep Date: **7/25/2005**		Analyst: **RW**
Percent Moisture	16.0	0.01	*	wt%	1	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
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e-mail address: STATInfo@STATAnalysis.com AIHA 10248, NVLAP 101202-0, NEALP 100445

CHAIN OF CUSTODY RECORD

№: 810383

Page: 1 of 1

Company: MACTEC
Project Number: 3205050441.03 Client Tracking No.:
Project Name: FOREST CITY - FT. SHERIDAN
Location/Address:
Sampler(s): Dennis Nagy
Report To: Dennis Nagy Phone: 773 693-6080
QC Level: 1 X 2 ___ 3 ___ 4 ___ Fax: 773 693-6039
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other: ___

P.O. No.:
Quote No.:
Turn Around:
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	PNAS	BTEX	PESTS	Remarks	Lab No.
423-A	7/18/05	0820	S		X		4	X	X			[illegible]
422-A		0835										[illegible]
426-A		0850										[illegible]
427-A		0910										[illegible]
430-A		0925										[illegible]
431-A		0945										[illegible]
663-A		1010										[illegible]
664-A		1025										[illegible]
660-A		1045										[illegible]
642-A		1110										[illegible]
SR-1		1321					1	X		X		[illegible]
SR-2		1330					1	X		X		[illegible]
SR-3		1345					1	X		X		[illegible]
SR-4		1348					1	X		X		[illegible]

Relinquished by: (Signature) Dennis E. Nagy	Date/Time: 7/18/05 15[illegible]	Laboratory Use: Sample Verification:
Received by: (Signature) [illegible]	Date/Time: 7/19/05 5[illegible]	Container OK Yes X No
Relinquished by: (Signature) [illegible]	Date/Time: 7/19/05 6[illegible]	Sample Leaking Yes No X
Received for lab by: (Signature) [illegible]	Date/Time: 7/19/05 18[illegible]	Preserved (Temp) °C Yes X No
Relinquished by: (Signature)	Date/Time:	Sample Labels Match Sample ID Yes X No

Work Order No.: [illegible]

Preservation Code:
A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC

Date and Time Received: 07/19/2005

Work Order Numbe 0507587

Received by: JC

Checklist completed by: Jesus Cart (Signature) 7/19/05 (Date)

Reviewed by: [illegible] (Initials) 7/29/05 (Date)

Matrix

Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 6 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☐	

Adjusted? Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted Date contacted: Person contacted

Contacted by: Regarding

Comments:

Corrective Action

STAT Analysis Corporation
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July 29, 2005

Checked & OK
DEN 8/18/05

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205050441.03, Forest City-Ft. Sheridan STAT Project No: 0507583

Dear Dennis Nagg:

STAT Analysis received 8 samples for the referenced project on 7/19/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab Order: 0507583

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0507583-001A	VH-1		7/19/2005 11:45:00 AM	7/19/2005
0507583-002A	VH-2		7/19/2005 12:00:00 PM	7/19/2005
0507583-003A	VH-3		7/19/2005 12:10:00 PM	7/19/2005
0507583-004A	VH-4		7/19/2005 12:50:00 PM	7/19/2005
0507583-005A	BR-1		7/19/2005 1:20:00 PM	7/19/2005
0507583-006A	BR-2		7/19/2005 1:40:00 PM	7/19/2005
0507583-007A	BR-3		7/19/2005 1:45:00 PM	7/19/2005
0507583-008A	BR-4		7/19/2005 1:50:00 PM	7/19/2005

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-001

Client Sample ID: VH-1
Collection Date: 7/19/2005 11:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		**SW8081 (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **ERP**
4,4'-DDD	0.012	0.0038		mg/Kg-dry	1	7/26/2005
4,4'-DDE	0.0061	0.0038		mg/Kg-dry	1	7/26/2005
4,4'-DDT	0.0042	0.0038		mg/Kg-dry	1	7/26/2005
Aldrin	ND	0.0018		mg/Kg-dry	1	7/26/2005
alpha-BHC	ND	0.0018		mg/Kg-dry	1	7/26/2005
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	7/26/2005
beta-BHC	ND	0.0018		mg/Kg-dry	1	7/26/2005
Chlordane	ND	0.091		mg/Kg-dry	1	7/26/2005
delta-BHC	ND	0.0018		mg/Kg-dry	1	7/26/2005
Dieldrin	ND	0.0038		mg/Kg-dry	1	7/26/2005
Endosulfan I	ND	0.0018		mg/Kg-dry	1	7/26/2005
Endosulfan II	ND	0.0038		mg/Kg-dry	1	7/26/2005
Endosulfan sulfate	ND	0.0038		mg/Kg-dry	1	7/26/2005
Endrin	ND	0.0038		mg/Kg-dry	1	7/26/2005
Endrin aldehyde	ND	0.0038		mg/Kg-dry	1	7/26/2005
Endrin ketone	ND	0.0038		mg/Kg-dry	1	7/26/2005
gamma-BHC	ND	0.0018		mg/Kg-dry	1	7/26/2005
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	7/26/2005
Heptachlor	ND	0.0018		mg/Kg-dry	1	7/26/2005
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	7/26/2005
Methoxychlor	ND	0.0018		mg/Kg-dry	1	7/26/2005
Toxaphene	ND	0.11		mg/Kg-dry	1	7/26/2005
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	0.14	0.038		mg/Kg-dry	10	7/26/2005
Acenaphthylene	0.049	0.038		mg/Kg-dry	10	7/26/2005
Anthracene	0.36	0.038		mg/Kg-dry	10	7/26/2005
Benz(a)anthracene	1.1	0.038		mg/Kg-dry	10	7/26/2005
Benzo(a)pyrene	1.1	0.038		mg/Kg-dry	10	7/26/2005
Benzo(b)fluoranthene	1.4	0.038		mg/Kg-dry	10	7/26/2005
Benzo(g,h,i)perylene	0.64	0.038		mg/Kg-dry	10	7/26/2005
Benzo(k)fluoranthene	0.7	0.038		mg/Kg-dry	10	7/26/2005
Chrysene	1.3	0.038		mg/Kg-dry	10	7/26/2005
Dibenz(a,h)anthracene	0.15	0.038		mg/Kg-dry	10	7/26/2005
Fluoranthene	3.1	0.038		mg/Kg-dry	10	7/26/2005
Fluorene	0.26	0.038		mg/Kg-dry	10	7/26/2005
Indeno(1,2,3-cd)pyrene	0.6	0.038		mg/Kg-dry	10	7/26/2005
Naphthalene	0.076	0.038		mg/Kg-dry	10	7/26/2005
Phenanthrene	2.1	0.038		mg/Kg-dry	10	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-001

Client Sample ID: VH-1
Collection Date: 7/19/2005 11:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**	Analyst: **VS**
Pyrene	2.3	0.038		mg/Kg-dry	10	7/26/2005
Percent Moisture		**D2974**			Prep Date: **7/22/2005**	Analyst: **RW**
Percent Moisture	13.1	0.01	*	wt%	1	7/25/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-002

Client Sample ID: VH-2
Collection Date: 7/19/2005 12:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		SW8081 (SW3550B)		Prep Date: 7/25/2005		Analyst: ERP
4,4'-DDD	0.24	0.015		mg/Kg-dry	4	7/28/2005
4,4'-DDE	0.015	0.0074		mg/Kg-dry	2	7/27/2005
4,4'-DDT	0.028	0.0074		mg/Kg-dry	2	7/27/2005
Aldrin	ND	0.0018		mg/Kg-dry	1	7/26/2005
alpha-BHC	ND	0.0018		mg/Kg-dry	1	7/26/2005
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	7/26/2005
beta-BHC	ND	0.0018		mg/Kg-dry	1	7/26/2005
Chlordane	ND	0.09		mg/Kg-dry	1	7/26/2005
delta-BHC	ND	0.0018		mg/Kg-dry	1	7/26/2005
Dieldrin	ND	0.0037		mg/Kg-dry	1	7/26/2005
Endosulfan I	ND	0.0018		mg/Kg-dry	1	7/26/2005
Endosulfan II	ND	0.0037		mg/Kg-dry	1	7/26/2005
Endosulfan sulfate	ND	0.0037		mg/Kg-dry	1	7/26/2005
Endrin	ND	0.0037		mg/Kg-dry	1	7/26/2005
Endrin aldehyde	ND	0.0037		mg/Kg-dry	1	7/26/2005
Endrin ketone	ND	0.0037		mg/Kg-dry	1	7/26/2005
gamma-BHC	ND	0.0018		mg/Kg-dry	1	7/26/2005
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	7/26/2005
Heptachlor	ND	0.0018		mg/Kg-dry	1	7/26/2005
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	7/26/2005
Methoxychlor	ND	0.0018		mg/Kg-dry	1	7/26/2005
Toxaphene	ND	0.11		mg/Kg-dry	1	7/26/2005
Polynuclear Aromatic Hydrocarbons		SW8270C-SIM (SW3550B)		Prep Date: 7/25/2005		Analyst: VS
Acenaphthene	0.037	0.037		mg/Kg-dry	10	7/26/2005
Acenaphthylene	ND	0.037		mg/Kg-dry	10	7/26/2005
Anthracene	0.082	0.037		mg/Kg-dry	10	7/26/2005
Benz(a)anthracene	0.33	0.037		mg/Kg-dry	10	7/26/2005
Benzo(a)pyrene	0.33	0.037		mg/Kg-dry	10	7/26/2005
Benzo(b)fluoranthene	0.49	0.037		mg/Kg-dry	10	7/26/2005
Benzo(g,h,i)perylene	0.19	0.037		mg/Kg-dry	10	7/26/2005
Benzo(k)fluoranthene	0.16	0.037		mg/Kg-dry	10	7/26/2005
Chrysene	0.37	0.037		mg/Kg-dry	10	7/26/2005
Dibenz(a,h)anthracene	0.045	0.037		mg/Kg-dry	10	7/26/2005
Fluoranthene	0.91	0.037		mg/Kg-dry	10	7/26/2005
Fluorene	0.064	0.037		mg/Kg-dry	10	7/26/2005
Indeno(1,2,3-cd)pyrene	0.18	0.037		mg/Kg-dry	10	7/26/2005
Naphthalene	ND	0.037		mg/Kg-dry	10	7/26/2005
Phenanthrene	0.58	0.037		mg/Kg-dry	10	7/26/2005

Qualifiers:
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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-002

Client Sample ID: VH-2
Collection Date: 7/19/2005 12:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**	Analyst: **VS**
Pyrene	0.69	0.037		mg/Kg-dry	10	7/26/2005
Percent Moisture		**D2974**			Prep Date: **7/22/2005**	Analyst: **RW**
Percent Moisture	12.8	0.01	*	wt%	1	7/25/2005

Qualifiers:
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-003

Client Sample ID: VH-3
Collection Date: 7/19/2005 12:10:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		SW8081 (SW3550B)		Prep Date: 7/25/2005		Analyst: ERP
4,4'-DDD	0.33	0.024		mg/Kg-dry	5	7/27/2005
4,4'-DDE	0.04	0.024		mg/Kg-dry	5	7/27/2005
4,4'-DDT	0.11	0.024		mg/Kg-dry	5	7/27/2005
Aldrin	ND	0.0023		mg/Kg-dry	1	7/26/2005
alpha-BHC	ND	0.0023		mg/Kg-dry	1	7/26/2005
alpha-Chlordane	ND	0.0023		mg/Kg-dry	1	7/26/2005
beta-BHC	ND	0.0023		mg/Kg-dry	1	7/26/2005
Chlordane	ND	0.11		mg/Kg-dry	1	7/26/2005
delta-BHC	ND	0.0023		mg/Kg-dry	1	7/26/2005
Dieldrin	ND	0.0047		mg/Kg-dry	1	7/26/2005
Endosulfan I	ND	0.0023		mg/Kg-dry	1	7/26/2005
Endosulfan II	ND	0.0047		mg/Kg-dry	1	7/26/2005
Endosulfan sulfate	ND	0.0047		mg/Kg-dry	1	7/26/2005
Endrin	ND	0.0047		mg/Kg-dry	1	7/26/2005
Endrin aldehyde	ND	0.0047		mg/Kg-dry	1	7/26/2005
Endrin ketone	ND	0.0047		mg/Kg-dry	1	7/26/2005
gamma-BHC	ND	0.0023		mg/Kg-dry	1	7/26/2005
gamma-Chlordane	ND	0.0023		mg/Kg-dry	1	7/26/2005
Heptachlor	ND	0.0023		mg/Kg-dry	1	7/26/2005
Heptachlor epoxide	ND	0.0023		mg/Kg-dry	1	7/26/2005
Methoxychlor	ND	0.0023		mg/Kg-dry	1	7/26/2005
Toxaphene	ND	0.14		mg/Kg-dry	1	7/26/2005
Polynuclear Aromatic Hydrocarbons		SW8270C-SIM (SW3550B)		Prep Date: 7/25/2005		Analyst: VS
Acenaphthene	0.75	0.047		mg/Kg-dry	10	7/26/2005
Acenaphthylene	ND	0.047		mg/Kg-dry	10	7/26/2005
Anthracene	1.7	0.047		mg/Kg-dry	10	7/26/2005
Benz(a)anthracene	6.8	3.6		mg/Kg-dry	100	7/26/2005
Benzo(a)pyrene	8.4	3.6		mg/Kg-dry	100	7/26/2005
Benzo(b)fluoranthene	8.2	3.6		mg/Kg-dry	100	7/26/2005
Benzo(g,h,i)perylene	6	3.6		mg/Kg-dry	100	7/26/2005
Benzo(k)fluoranthene	2.4	0.047		mg/Kg-dry	10	7/26/2005
Chrysene	8.9	3.6		mg/Kg-dry	100	7/26/2005
Dibenz(a,h)anthracene	0.8	0.047		mg/Kg-dry	10	7/26/2005
Fluoranthene	21	3.6		mg/Kg-dry	100	7/26/2005
Fluorene	1.1	0.047		mg/Kg-dry	10	7/26/2005
Indeno(1,2,3-cd)pyrene	5.2	3.6		mg/Kg-dry	100	7/26/2005
Naphthalene	0.12	0.047		mg/Kg-dry	10	7/26/2005
Phenanthrene	14	3.6		mg/Kg-dry	100	7/26/2005

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-003

Client Sample ID: VH-3
Collection Date: 7/19/2005 12:10:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Pyrene	16	3.6		mg/Kg-dry	100	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	30.1	0.01	*	wt%	1	7/25/2005

Qualifiers:

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-004

Client Sample ID: VH-4
Collection Date: 7/19/2005 12:50:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		**SW8081 (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **ERP**
4,4'-DDD	ND	0.0039		mg/Kg-dry	1	7/27/2005
4,4'-DDE	ND	0.0039		mg/Kg-dry	1	7/27/2005
4,4'-DDT	ND	0.0039		mg/Kg-dry	1	7/27/2005
Aldrin	ND	0.0019		mg/Kg-dry	1	7/27/2005
alpha-BHC	ND	0.0019		mg/Kg-dry	1	7/27/2005
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	7/27/2005
beta-BHC	ND	0.0019		mg/Kg-dry	1	7/27/2005
Chlordane	ND	0.096		mg/Kg-dry	1	7/27/2005
delta-BHC	ND	0.0019		mg/Kg-dry	1	7/27/2005
Dieldrin	ND	0.0039		mg/Kg-dry	1	7/27/2005
Endosulfan I	ND	0.0019		mg/Kg-dry	1	7/27/2005
Endosulfan II	ND	0.0039		mg/Kg-dry	1	7/27/2005
Endosulfan sulfate	ND	0.0039		mg/Kg-dry	1	7/27/2005
Endrin	ND	0.0039		mg/Kg-dry	1	7/27/2005
Endrin aldehyde	ND	0.0039		mg/Kg-dry	1	7/27/2005
Endrin ketone	ND	0.0039		mg/Kg-dry	1	7/27/2005
gamma-BHC	ND	0.0019		mg/Kg-dry	1	7/27/2005
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	7/27/2005
Heptachlor	ND	0.0019		mg/Kg-dry	1	7/27/2005
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	7/27/2005
Methoxychlor	ND	0.0019		mg/Kg-dry	1	7/27/2005
Toxaphene	ND	0.12		mg/Kg-dry	1	7/27/2005
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.03		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	0.031	0.03		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	7/25/2005
Chrysene	0.031	0.03		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	7/25/2005
Fluoranthene	0.071	0.03		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.03		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	7/25/2005
Phenanthrene	0.041	0.03		mg/Kg-dry	1	7/25/2005

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-004

Client Sample ID: VH-4
Collection Date: 7/19/2005 12:50:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Pyrene	0.053	0.03		mg/Kg-dry	1	7/25/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	18.3	0.01	*	wt%	1	7/25/2005

Qualifiers:
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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-005

Client Sample ID: BR-1
Collection Date: 7/19/2005 1:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		**SW8081 (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **ERP**
4,4'-DDD	0.047	0.0082		mg/Kg-dry	2	7/27/2005
4,4'-DDE	0.15	0.0082		mg/Kg-dry	2	7/27/2005
4,4'-DDT	0.16	0.0082		mg/Kg-dry	2	7/27/2005
Aldrin	ND	0.002		mg/Kg-dry	1	7/26/2005
alpha-BHC	ND	0.002		mg/Kg-dry	1	7/26/2005
alpha-Chlordane	ND	0.002		mg/Kg-dry	1	7/26/2005
beta-BHC	ND	0.002		mg/Kg-dry	1	7/26/2005
Chlordane	ND	0.1		mg/Kg-dry	1	7/26/2005
delta-BHC	ND	0.002		mg/Kg-dry	1	7/26/2005
Dieldrin	ND	0.0041		mg/Kg-dry	1	7/26/2005
Endosulfan I	ND	0.002		mg/Kg-dry	1	7/26/2005
Endosulfan II	ND	0.0041		mg/Kg-dry	1	7/26/2005
Endosulfan sulfate	ND	0.0041		mg/Kg-dry	1	7/26/2005
Endrin	ND	0.0041		mg/Kg-dry	1	7/26/2005
Endrin aldehyde	ND	0.0041		mg/Kg-dry	1	7/26/2005
Endrin ketone	ND	0.0041		mg/Kg-dry	1	7/26/2005
gamma-BHC	ND	0.002		mg/Kg-dry	1	7/26/2005
gamma-Chlordane	ND	0.002		mg/Kg-dry	1	7/26/2005
Heptachlor	ND	0.002		mg/Kg-dry	1	7/26/2005
Heptachlor epoxide	ND	0.002		mg/Kg-dry	1	7/26/2005
Methoxychlor	ND	0.002		mg/Kg-dry	1	7/26/2005
Toxaphene	ND	0.12		mg/Kg-dry	1	7/26/2005
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.041		mg/Kg-dry	10	7/26/2005
Acenaphthylene	ND	0.041		mg/Kg-dry	10	7/26/2005
Anthracene	0.18	0.041		mg/Kg-dry	10	7/26/2005
Benz(a)anthracene	0.68	0.041		mg/Kg-dry	10	7/26/2005
Benzo(a)pyrene	0.52	0.041		mg/Kg-dry	10	7/26/2005
Benzo(b)fluoranthene	0.7	0.041		mg/Kg-dry	10	7/26/2005
Benzo(g,h,i)perylene	0.26	0.041		mg/Kg-dry	10	7/26/2005
Benzo(k)fluoranthene	0.59	0.041		mg/Kg-dry	10	7/26/2005
Chrysene	0.79	0.041		mg/Kg-dry	10	7/26/2005
Dibenz(a,h)anthracene	0.074	0.041		mg/Kg-dry	10	7/26/2005
Fluoranthene	1.3	0.041		mg/Kg-dry	10	7/26/2005
Fluorene	0.058	0.041		mg/Kg-dry	10	7/26/2005
Indeno(1,2,3-cd)pyrene	0.26	0.041		mg/Kg-dry	10	7/26/2005
Naphthalene	0.12	0.041		mg/Kg-dry	10	7/26/2005
Phenanthrene	0.88	0.041		mg/Kg-dry	10	7/26/2005

Qualifiers:
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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-005

Client Sample ID: BR-1
Collection Date: 7/19/2005 1:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Pyrene	1.1	0.041		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	21.3	0.01	*	wt%	1	7/25/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-006

Client Sample ID: BR-2
Collection Date: 7/19/2005 1:40:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		**SW8081 (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **ERP**
4,4'-DDD	2.9	0.22		mg/Kg-dry	40	7/28/2005
4,4'-DDE	0.24	0.11		mg/Kg-dry	20	7/27/2005
4,4'-DDT	0.27	0.11		mg/Kg-dry	20	7/27/2005
Aldrin	ND	0.0026		mg/Kg-dry	1	7/26/2005
alpha-BHC	ND	0.0026		mg/Kg-dry	1	7/26/2005
alpha-Chlordane	ND	0.0026		mg/Kg-dry	1	7/26/2005
beta-BHC	ND	0.0026		mg/Kg-dry	1	7/26/2005
Chlordane	ND	0.13		mg/Kg-dry	1	7/26/2005
delta-BHC	ND	0.0026		mg/Kg-dry	1	7/26/2005
Dieldrin	ND	0.0054		mg/Kg-dry	1	7/26/2005
Endosulfan I	ND	0.0026		mg/Kg-dry	1	7/26/2005
Endosulfan II	ND	0.0054		mg/Kg-dry	1	7/26/2005
Endosulfan sulfate	ND	0.0054		mg/Kg-dry	1	7/26/2005
Endrin	ND	0.0054		mg/Kg-dry	1	7/26/2005
Endrin aldehyde	ND	0.0054		mg/Kg-dry	1	7/26/2005
Endrin ketone	ND	0.0054		mg/Kg-dry	1	7/26/2005
gamma-BHC	ND	0.0026		mg/Kg-dry	1	7/26/2005
gamma-Chlordane	ND	0.0026		mg/Kg-dry	1	7/26/2005
Heptachlor	ND	0.0026		mg/Kg-dry	1	7/26/2005
Heptachlor epoxide	ND	0.0026		mg/Kg-dry	1	7/26/2005
Methoxychlor	ND	0.0026		mg/Kg-dry	1	7/26/2005
Toxaphene	ND	0.16		mg/Kg-dry	1	7/26/2005
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.054		mg/Kg-dry	10	7/26/2005
Acenaphthylene	ND	0.054		mg/Kg-dry	10	7/26/2005
Anthracene	0.06	0.054		mg/Kg-dry	10	7/26/2005
Benz(a)anthracene	0.36	0.054		mg/Kg-dry	10	7/26/2005
Benzo(a)pyrene	0.15	0.054		mg/Kg-dry	10	7/26/2005
Benzo(b)fluoranthene	0.19	0.054		mg/Kg-dry	10	7/26/2005
Benzo(g,h,i)perylene	0.093	0.054		mg/Kg-dry	10	7/26/2005
Benzo(k)fluoranthene	0.16	0.054		mg/Kg-dry	10	7/26/2005
Chrysene	0.36	0.054		mg/Kg-dry	10	7/26/2005
Dibenz(a,h)anthracene	ND	0.054		mg/Kg-dry	10	7/26/2005
Fluoranthene	0.57	0.054		mg/Kg-dry	10	7/26/2005
Fluorene	ND	0.054		mg/Kg-dry	10	7/26/2005
Indeno(1,2,3-cd)pyrene	0.1	0.054		mg/Kg-dry	10	7/26/2005
Naphthalene	ND	0.054		mg/Kg-dry	10	7/26/2005
Phenanthrene	0.32	0.054		mg/Kg-dry	10	7/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
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H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-006

Client Sample ID: BR-2
Collection Date: 7/19/2005 1:40:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Pyrene	0.5	0.054		mg/Kg-dry	10	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	39.5	0.01	*	wt%	1	7/25/2005

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-007

Client Sample ID: BR-3
Collection Date: 7/19/2005 1:45:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		**SW8081 (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **ERP**
4,4'-DDD	0.052	0.0092		mg/Kg-dry	2	7/27/2005
4,4'-DDE	0.12	0.0092		mg/Kg-dry	2	7/27/2005
4,4'-DDT	0.062	0.0092		mg/Kg-dry	2	7/27/2005
Aldrin	ND	0.0022		mg/Kg-dry	1	7/26/2005
alpha-BHC	ND	0.0022		mg/Kg-dry	1	7/26/2005
alpha-Chlordane	ND	0.0022		mg/Kg-dry	1	7/26/2005
beta-BHC	ND	0.0022		mg/Kg-dry	1	7/26/2005
Chlordane	ND	0.11		mg/Kg-dry	1	7/26/2005
delta-BHC	ND	0.0022		mg/Kg-dry	1	7/26/2005
Dieldrin	ND	0.0046		mg/Kg-dry	1	7/26/2005
Endosulfan I	ND	0.0022		mg/Kg-dry	1	7/26/2005
Endosulfan II	ND	0.0046		mg/Kg-dry	1	7/26/2005
Endosulfan sulfate	ND	0.0046		mg/Kg-dry	1	7/26/2005
Endrin	ND	0.0046		mg/Kg-dry	1	7/26/2005
Endrin aldehyde	ND	0.0046		mg/Kg-dry	1	7/26/2005
Endrin ketone	ND	0.0046		mg/Kg-dry	1	7/26/2005
gamma-BHC	ND	0.0022		mg/Kg-dry	1	7/26/2005
gamma-Chlordane	ND	0.0022		mg/Kg-dry	1	7/26/2005
Heptachlor	ND	0.0022		mg/Kg-dry	1	7/26/2005
Heptachlor epoxide	ND	0.0022		mg/Kg-dry	1	7/26/2005
Methoxychlor	ND	0.0022		mg/Kg-dry	1	7/26/2005
Toxaphene	ND	0.14		mg/Kg-dry	1	7/26/2005
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	ND	0.034		mg/Kg-dry	1	7/25/2005
Acenaphthylene	ND	0.034		mg/Kg-dry	1	7/25/2005
Anthracene	ND	0.034		mg/Kg-dry	1	7/25/2005
Benz(a)anthracene	0.12	0.034		mg/Kg-dry	1	7/25/2005
Benzo(a)pyrene	0.13	0.034		mg/Kg-dry	1	7/25/2005
Benzo(b)fluoranthene	0.17	0.034		mg/Kg-dry	1	7/25/2005
Benzo(g,h,i)perylene	0.065	0.034		mg/Kg-dry	1	7/25/2005
Benzo(k)fluoranthene	0.091	0.034		mg/Kg-dry	1	7/25/2005
Chrysene	0.14	0.034		mg/Kg-dry	1	7/25/2005
Dibenz(a,h)anthracene	ND	0.034		mg/Kg-dry	1	7/25/2005
Fluoranthene	0.27	0.034		mg/Kg-dry	1	7/25/2005
Fluorene	ND	0.034		mg/Kg-dry	1	7/25/2005
Indeno(1,2,3-cd)pyrene	0.067	0.034		mg/Kg-dry	1	7/25/2005
Naphthalene	ND	0.034		mg/Kg-dry	1	7/25/2005
Phenanthrene	0.14	0.034		mg/Kg-dry	1	7/25/2005

Qualifiers:
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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-007

Client Sample ID: BR-3
Collection Date: 7/19/2005 1:45:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **VS**
Pyrene	0.22	0.034		mg/Kg-dry	1	7/25/2005
Percent Moisture		**D2974**		Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	29.1	0.01	*	wt%	1	7/25/2005

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-008

Client Sample ID: BR-4
Collection Date: 7/19/2005 1:50:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Pesticides		**SW8081 (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **ERP**
4,4'-DDD	0.12	0.0072		mg/Kg-dry	2	7/27/2005
4,4'-DDE	0.062	0.0072		mg/Kg-dry	2	7/27/2005
4,4'-DDT	0.057	0.0072		mg/Kg-dry	2	7/27/2005
Aldrin	ND	0.0017		mg/Kg-dry	1	7/26/2005
alpha-BHC	ND	0.0017		mg/Kg-dry	1	7/26/2005
alpha-Chlordane	ND	0.0017		mg/Kg-dry	1	7/26/2005
beta-BHC	ND	0.0017		mg/Kg-dry	1	7/26/2005
Chlordane	ND	0.087		mg/Kg-dry	1	7/26/2005
delta-BHC	ND	0.0017		mg/Kg-dry	1	7/26/2005
Dieldrin	ND	0.0036		mg/Kg-dry	1	7/26/2005
Endosulfan I	ND	0.0017		mg/Kg-dry	1	7/26/2005
Endosulfan II	ND	0.0036		mg/Kg-dry	1	7/26/2005
Endosulfan sulfate	ND	0.0036		mg/Kg-dry	1	7/26/2005
Endrin	ND	0.0036		mg/Kg-dry	1	7/26/2005
Endrin aldehyde	ND	0.0036		mg/Kg-dry	1	7/26/2005
Endrin ketone	ND	0.0036		mg/Kg-dry	1	7/26/2005
gamma-BHC	ND	0.0017		mg/Kg-dry	1	7/26/2005
gamma-Chlordane	ND	0.0017		mg/Kg-dry	1	7/26/2005
Heptachlor	ND	0.0017		mg/Kg-dry	1	7/26/2005
Heptachlor epoxide	ND	0.0017		mg/Kg-dry	1	7/26/2005
Methoxychlor	ND	0.0017		mg/Kg-dry	1	7/26/2005
Toxaphene	ND	0.11		mg/Kg-dry	1	7/26/2005
Polynuclear Aromatic Hydrocarbons		**SW8270C-SIM (SW3550B)**		Prep Date: **7/25/2005**		Analyst: **VS**
Acenaphthene	0.95	0.036		mg/Kg-dry	10	7/26/2005
Acenaphthylene	0.04	0.036		mg/Kg-dry	10	7/26/2005
Anthracene	3.4	2.7		mg/Kg-dry	100	7/26/2005
Benz(a)anthracene	4.8	2.7		mg/Kg-dry	100	7/26/2005
Benzo(a)pyrene	4.3	2.7		mg/Kg-dry	100	7/26/2005
Benzo(b)fluoranthene	4.4	2.7		mg/Kg-dry	100	7/26/2005
Benzo(g,h,i)perylene	0.96	0.036		mg/Kg-dry	10	7/26/2005
Benzo(k)fluoranthene	3.9	2.7		mg/Kg-dry	100	7/26/2005
Chrysene	4.9	2.7		mg/Kg-dry	100	7/26/2005
Dibenz(a,h)anthracene	0.39	0.036		mg/Kg-dry	10	7/26/2005
Fluoranthene	13	2.7		mg/Kg-dry	100	7/26/2005
Fluorene	1.6	0.036		mg/Kg-dry	10	7/26/2005
Indeno(1,2,3-cd)pyrene	1	0.036		mg/Kg-dry	10	7/26/2005
Naphthalene	0.75	0.036		mg/Kg-dry	10	7/26/2005
Phenanthrene	12	2.7		mg/Kg-dry	100	7/26/2005

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Date Reported: July 29, 2005
Date Printed: July 29, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 0507583
Project: 3205050441.03, Forest City-Ft. Sheridan
Lab ID: 0507583-008

Client Sample ID: BR-4
Collection Date: 7/19/2005 1:50:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **7/25/2005**		Analyst: **VS**
Pyrene	10	2.7		mg/Kg-dry	100	7/26/2005
Percent Moisture	**D2974**			Prep Date: **7/22/2005**		Analyst: **RW**
Percent Moisture	9.68	0.01	*	wt%	1	7/25/2005

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E - Value above quantitation range
H - Holding time exceeded

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2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATInfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

NVLAP

Nº:

CHAIN OF CUSTODY RECORD

Page : 1 of 1

Client Name: MACTEC
Project Number: 3205050441.03
Project Name: FOREST CITY
Location/Address: Ft. Sheridan
Samplers: Dennis Nagg

TYPE OF ANALYSES: PALAS PESTS

Turnaround Time: (days)
Results Needed: / / am/pm

Client Sample No.:	Sample Description	Date Taken	Time Taken	Comp.	Grab	No. of Containers	Remarks	Lab No.
	VH-1	7/19/05	1145		X	1		001
	VH-2	↓	1200		↓	↓		002
	VH-3		1210					003
	VH-4		1250					004
	BR-1		1320					005
	BR-2		1340					006
	BR-3		1345					007
	BR-4		1350					008

0507583

Relinquished by: (Signature) Dennis E. Nagg	Date/Time: 7/19/05 1630	Lab User:	Sample Verification
Received by: (Signature) [signature]	Date/Time: 7-19-05 5:15	Containers OK	Yes No
Relinquished by: (Signature) [signature]	Date/Time: 7-19-05 5:17	Samples Leaking	Yes No
Received for lab by: (Signature) [signature]	Date/Time: 7/19/05 1817	Refrigerated (Temp. 6 °C)	Yes No
Relinquished by: (Signature)	Date/Time:	Sample Labels Match Sample ID	Yes No

Contact Information:
Phone Number:
Fax Number:
Attention:
Other Contact:

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC

Date and Time Received: 07/19/2005

Work Order Numbe 0507583

Received by: JC

Checklist completed by: [signature] (Signature) 7/19/05 (Date)

Reviewed by: [initials] (Initials) 7/28/05 (Date)

Matrix

Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 6 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples properly preserved/ pH checked?	Yes ☐	No ☐	

Adjusted? Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted Date contacted: Person contacted

Contacted by: Regarding

Comments:

Corrective Action

FT. SHERIDAN – 7 SAMPLES

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August 26, 2005

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

Checked & OK
DEN 9/6/05

RE: NAVFAC

STAT Project No: 0508828

Dear Dennis Nagg:

STAT Analysis received 12 samples for the referenced project on 8/23/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: August 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Project: NAVFAC
Lab Order: 0508828

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0508828-001A	642-Pb-1		7/18/2005 12:25:00 PM	7/19/2005
0508828-002A	657-Pb-1		7/18/2005 1:03:00 PM	7/19/2005
0508828-003A	495-Pb-1		7/19/2005 9:35:00 AM	7/19/2005
0508828-004A	447-Pb-1		7/19/2005 9:37:00 AM	7/19/2005
0508828-005A	423-Pb-2		7/19/2005 10:08:00 AM	7/19/2005
0508828-006A	422-Pb-1		7/19/2005 10:26:00 AM	7/19/2005
0508828-007A	426-Pb-2		7/19/2005 10:30:00 AM	7/19/2005
0508828-008A	K-1		7/29/2005 10:45:00 AM	8/1/2005
0508828-009A	I-1		7/29/2005 11:30:00 AM	8/1/2005
0508828-010A	I-6		7/29/2005 11:55:00 AM	8/1/2005
0508828-011A	64-2		7/29/2005 12:25:00 PM	8/1/2005
0508828-012A	202H-2		7/29/2005 1:55:00 PM	8/1/2005

STAT Analysis Corporation

Date: *August 26, 2005*

CLIENT: MACTEC Engineering and Consulting, Inc.
Project: NAVFAC
Lab Order: 0508828

CASE NARRATIVE

Sample 642-Pb-1 (0508828-001) was formerly assigned STAT Sample ID 0507586-001.
Sample 657-Pb-1 (0508828-002) was formerly assigned STAT Sample ID 0507586-009.
Sample 495-Pb-1 (0508828-003) was formerly assigned STAT Sample ID 0507584-002.
Sample 447-Pb-1 (0508828-004) was formerly assigned STAT Sample ID 0507584-003.
Sample 642-Pb-1 (0508828-005) was formerly assigned STAT Sample ID 0507584-007.
Sample 422-Pb-1 (0508828-006) was formerly assigned STAT Sample ID 0507584-016.
Sample 426-Pb-2 (0508828-007) was formerly assigned STAT Sample ID 0507584-020.
Sample K-1 (0508828-008) was formerly assigned STAT Sample ID 0508030-001.
Sample I-1 (0508828-009) was formerly assigned STAT Sample ID 0508030-005.
Sample I-6 (0508828-010) was formerly assigned STAT Sample ID 0508030-010.
Sample 64-2 (0508828-011) was formerly assigned STAT Sample ID 0508030-013.
Sample 202H-2 (0508828-012) was formerly assigned STAT Sample ID 0508030-020.

Please refer to reports corresponding to original STAT Sample ID for chains of custody.

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Date Reported: August 26, 2005
Date Printed: August 26, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: NAVFAC **Lab Order:** 0508828

Lab ID: 0508828-001 **Collection Date:** 7/18/2005 12:25:00 PM
Client Sample ID: 642-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **8/25/2005**		Analyst: **JG**
Lead	4.3	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-002 **Collection Date:** 7/18/2005 1:03:00 PM
Client Sample ID: 657-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **8/25/2005**		Analyst: **JG**
Lead	0.077	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-003 **Collection Date:** 7/19/2005 9:35:00 AM
Client Sample ID: 495-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **8/25/2005**		Analyst: **JG**
Lead	11	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-004 **Collection Date:** 7/19/2005 9:37:00 AM
Client Sample ID: 447-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **8/25/2005**		Analyst: **JG**
Lead	8.2	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-005 **Collection Date:** 7/19/2005 10:08:00 AM
Client Sample ID: 423-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **8/25/2005**		Analyst: **JG**
Lead	4.2	0.005		mg/L	5	8/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: August 26, 2005
Date Printed: August 26, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: NAVFAC **Lab Order:** 0508828

Lab ID: 0508828-006 **Collection Date:** 7/19/2005 10:26:00 AM
Client Sample ID: 422-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **8/25/2005**		Analyst: **JG**
Lead	6.9	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-007 **Collection Date:** 7/19/2005 10:30:00 AM
Client Sample ID: 426-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **8/25/2005**		Analyst: **JG**
Lead	6.1	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-008 **Collection Date:** 7/29/2005 10:45:00 AM
Client Sample ID: K-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **8/25/2005**		Analyst: **JG**
Lead	9.6	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-009 **Collection Date:** 7/29/2005 11:30:00 AM
Client Sample ID: I-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **8/25/2005**		Analyst: **JG**
Lead	2.2	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-010 **Collection Date:** 7/29/2005 11:55:00 AM
Client Sample ID: I-6 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **8/25/2005**		Analyst: **JG**
Lead	4.6	0.005		mg/L	5	8/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2255 West Harrison St., Suite B, Chicago, IL 60612-3505
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: August 26, 2005
Date Printed: August 26, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: NAVFAC **Lab Order:** 0508828

Lab ID: 0508828-011 **Collection Date:** 7/29/2005 12:25:00 PM
Client Sample ID: 64-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **8/25/2005**		Analyst: **JG**
Lead	5.4	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-012 **Collection Date:** 7/29/2005 1:55:00 PM
Client Sample ID: 202H-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **8/25/2005**		Analyst: **JG**
Lead	1	0.005		mg/L	5	8/26/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Craig 0508828

From: "Nagg, Dennis" <DENAGG@mactec.com>
To: "Craig Chawla" <CChawla@STATAnalysis.com>
Sent: Wednesday, August 17, 2005 4:54 PM
Subject: Soil Samples NAVFAC

Craig:

No DEN 9/6/05

Please run the following soil samples for arsenic on standard TAT:

1) 0507475-019 (VES#3-A)
2) 0507475-021 (VES#3-C)
3) 0507475-023 (VES#3-E)

Also, please run the following soil samples for TCLP Lead on standard TAT:

1) 0507586-001 (642-Pb-1)
2) 0507586-009 (657-Pb-1)
3) 0507584-002 (495-Pb-1)
4) 0507584-003 (447-Pb-1)
5) 0507584-007 (423-Pb-2)
6) 0507584-016 (422-Pb-1)
7) 0507584-020 (426-Pb-2)
8) 0508030-001 (K-1)
9) 0508030-005 (I-1)
10) 0508030-010 (I-6)
11) 0508030-013 (64-2)
12) 0508030-020 (202H-2)

Please try to have these results to me by 8/25/05.

Dennis E. Nagg | Sr Project Engineer
MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Ave. | Suite 250 | Chicago, IL | 60656
Office (773) 693-6030 | Fax (773) 693-6039
Email denagg@mactec.com | Web www.mactec.com

TCLP-Lead

STAT Analysis Corporation
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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

August 26, 2005

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: NAVFAC STAT Project No: 0508828

Dear Dennis Nagg:

STAT Analysis received 12 samples for the referenced project on 8/23/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Craig Chawla
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: August 26, 2005

Client: MACTEC Engineering and Consulting, Inc.
Project: NAVFAC
Lab Order: 0508828

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0508828-001A	642-Pb-1		7/18/2005 12:25:00 PM	7/19/2005
0508828-002A	657-Pb-1		7/18/2005 1:03:00 PM	7/19/2005
0508828-003A	495-Pb-1		7/19/2005 9:35:00 AM	7/19/2005
0508828-004A	447-Pb-1		7/19/2005 9:37:00 AM	7/19/2005
0508828-005A	423-Pb-2		7/19/2005 10:08:00 AM	7/19/2005
0508828-006A	422-Pb-1		7/19/2005 10:26:00 AM	7/19/2005
0508828-007A	426-Pb-2		7/19/2005 10:30:00 AM	7/19/2005
0508828-008A	K-1		7/29/2005 10:45:00 AM	8/1/2005
0508828-009A	I-1		7/29/2005 11:30:00 AM	8/1/2005
0508828-010A	I-6		7/29/2005 11:55:00 AM	8/1/2005
0508828-011A	64-2		7/29/2005 12:25:00 PM	8/1/2005
0508828-012A	202H-2		7/29/2005 1:55:00 PM	8/1/2005

STAT Analysis Corporation **Date:** *August 26, 2005*

CLIENT: MACTEC Engineering and Consulting, Inc.
Project: NAVFAC
Lab Order: 0508828

CASE NARRATIVE

Sample 642-Pb-1 (0508828-001) was formerly assigned STAT Sample ID 0507586-001.
Sample 657-Pb-1 (0508828-002) was formerly assigned STAT Sample ID 0507586-009.
Sample 495-Pb-1 (0508828-003) was formerly assigned STAT Sample ID 0507584-002.
Sample 447-Pb-1 (0508828-004) was formerly assigned STAT Sample ID 0507584-003.
Sample 642-Pb-1 (0508828-005) was formerly assigned STAT Sample ID 0507584-007.
Sample 422-Pb-1 (0508828-006) was formerly assigned STAT Sample ID 0507584-016.
Sample 426-Pb-2 (0508828-007) was formerly assigned STAT Sample ID 0507584-020.
Sample K-1 (0508828-008) was formerly assigned STAT Sample ID 0508030-001.
Sample I-1 (0508828-009) was formerly assigned STAT Sample ID 0508030-005.
Sample I-6 (0508828-010) was formerly assigned STAT Sample ID 0508030-010.
Sample 64-2 (0508828-011) was formerly assigned STAT Sample ID 0508030-013.
Sample 202H-2 (0508828-012) was formerly assigned STAT Sample ID 0508030-020.

Please refer to reports corresponding to original STAT Sample ID for chains of custody.

STAT Analysis Corporation
2255 West Harrison St., Suite B, Chicago, IL 60612-3505
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: August 26, 2005
Date Printed: August 26, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: NAVFAC **Lab Order:** 0508828

Lab ID: 0508828-001 **Collection Date:** 7/18/2005 12:25:00 PM
Client Sample ID: 642-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 8/25/2005		Analyst: JG
Lead	4.3	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-002 **Collection Date:** 7/18/2005 1:03:00 PM
Client Sample ID: 657-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 8/25/2005		Analyst: JG
Lead	0.077	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-003 **Collection Date:** 7/19/2005 9:35:00 AM
Client Sample ID: 495-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 8/25/2005		Analyst: JG
Lead	11	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-004 **Collection Date:** 7/19/2005 9:37:00 AM
Client Sample ID: 447-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 8/25/2005		Analyst: JG
Lead	8.2	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-005 **Collection Date:** 7/19/2005 10:08:00 AM
Client Sample ID: 423-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		SW1311/6020 (SW3005A)		Prep Date: 8/25/2005		Analyst: JG
Lead	4.2	0.005		mg/L	5	8/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: August 26, 2005
Date Printed: August 26, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: NAVFAC **Lab Order:** 0508828

Lab ID: 0508828-006 **Collection Date:** 7/19/2005 10:26:00 AM
Client Sample ID: 422-Pb-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	**SW1311/6020 (SW3005A)**			Prep Date: **8/25/2005**		Analyst: **JG**
Lead	6.9	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-007 **Collection Date:** 7/19/2005 10:30:00 AM
Client Sample ID: 426-Pb-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	**SW1311/6020 (SW3005A)**			Prep Date: **8/25/2005**		Analyst: **JG**
Lead	6.1	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-008 **Collection Date:** 7/29/2005 10:45:00 AM
Client Sample ID: K-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	**SW1311/6020 (SW3005A)**			Prep Date: **8/25/2005**		Analyst: **JG**
Lead	9.6	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-009 **Collection Date:** 7/29/2005 11:30:00 AM
Client Sample ID: I-1 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	**SW1311/6020 (SW3005A)**			Prep Date: **8/25/2005**		Analyst: **JG**
Lead	2.2	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-010 **Collection Date:** 7/29/2005 11:55:00 AM
Client Sample ID: I-6 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS	**SW1311/6020 (SW3005A)**			Prep Date: **8/25/2005**		Analyst: **JG**
Lead	4.6	0.005		mg/L	5	8/26/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: August 26, 2005
Date Printed: August 26, 2005

Client: MACTEC Engineering and Consulting, Inc
Project: NAVFAC **Lab Order:** 0508828

Lab ID: 0508828-011 **Collection Date:** 7/29/2005 12:25:00 PM
Client Sample ID: 64-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **8/25/2005**		Analyst: **JG**
Lead	5.4	0.005		mg/L	5	8/26/2005

Lab ID: 0508828-012 **Collection Date:** 7/29/2005 1:55:00 PM
Client Sample ID: 202H-2 **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **8/25/2005**		Analyst: **JG**
Lead	1	0.005		mg/L	5	8/26/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Craig 0508828

From: "Nagg, Dennis" <DENAGG@mactec.com>
To: "Craig Chawla" <CChawla@STATAnalysis.com>
Sent: Wednesday, August 17, 2005 4:54 PM
Subject: Soil Samples NAVFAC

Craig:

Please run the following soil samples for arsenic on standard TAT:

1) 0507475-019 (VES#3-A)
2) 0507475-021 (VES#3-C)
3) 0507475-023 (VES#3-E)

Also, please run the following soil samples for TCLP Lead on standard TAT:

1) 0507586-001 (642-Pb-1)
2) 0507586-009 (657-Pb-1)
3) 0507584-002 (495-Pb-1)
4) 0507584-003 (447-Pb-1)
5) 0507584-007 (423-Pb-2)
6) 0507584-016 (422-Pb-1)
7) 0507584-020 (426-Pb-2)
8) 0508030-001 (K-1)
9) 0508030-005 (I-1)
10) 0508030-010 (I-6)
11) 0508030-013 (64-2)
12) 0508030-020 (202H-2)

Please try to have these results to me by 8/25/05.

Dennis E. Nagg | Sr Project Engineer
MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Ave. | Suite 250 | Chicago, IL | 60656
Office (773) 693-6030 | Fax (773) 693-6039
Email denagg@mactec.com | Web www.mactec.com

STAT Analysis Corporation
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September 09, 2005

Checked & OK
DEN 9/12/05

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205050441.03, Ft. Sheridan STAT Project No: 05081158

Dear Dennis Nagg:

STAT Analysis received 6 samples for the referenced project on 8/31/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Chris Forst
Assistant Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: September 09, 2005

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205050441.03, Ft. Sheridan
Lab Order: 05081158

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
05081158-001A	Coal Store 3-A		8/31/2005 9:55:00 AM	8/31/2005
05081158-002A	Coal Store 3-B		8/31/2005 10:10:00 AM	8/31/2005
05081158-003A	Coal Store 3-C		8/31/2005 10:30:00 AM	8/31/2005
05081158-004A	Ex Area 8-A		8/31/2005 12:00:00 PM	8/31/2005
05081158-005A	Ex Area 8-B		8/31/2005 12:45:00 PM	8/31/2005
05081158-006A	Ex Area 8-C		8/31/2005 1:45:00 PM	8/31/2005

STAT Analysis Corporation
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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 09, 2005
Date Printed: September 09, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081158
Project: 3205050441.03, Ft. Sheridan
Lab ID: 05081158-001

Client Sample ID: Coal Store 3-A
Collection Date: 8/31/2005 9:55:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471A**			Prep Date: **9/2/2005**		Analyst: **JG**
Mercury	ND	0.026		mg/Kg-dry	1	9/2/2005
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/2/2005**		Analyst: **JG**
Arsenic	7.8	1.1		mg/Kg-dry	10	9/2/2005
Barium	51	2.2		mg/Kg-dry	20	9/6/2005
Cadmium	ND	1.1		mg/Kg-dry	20	9/6/2005
Chromium	16	1.1		mg/Kg-dry	10	9/2/2005
Lead	14	1.1		mg/Kg-dry	10	9/2/2005
Selenium	ND	1.1		mg/Kg-dry	10	9/2/2005
Silver	ND	2.2		mg/Kg-dry	20	9/6/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.027		mg/Kg-dry	1	9/7/2005
Acenaphthylene	ND	0.027		mg/Kg-dry	1	9/7/2005
Anthracene	ND	0.027		mg/Kg-dry	1	9/7/2005
Benz(a)anthracene	ND	0.027		mg/Kg-dry	1	9/7/2005
Benzo(a)pyrene	ND	0.027		mg/Kg-dry	1	9/7/2005
Benzo(b)fluoranthene	ND	0.027		mg/Kg-dry	1	9/7/2005
Benzo(g,h,i)perylene	ND	0.027		mg/Kg-dry	1	9/7/2005
Benzo(k)fluoranthene	ND	0.027		mg/Kg-dry	1	9/7/2005
Chrysene	ND	0.027		mg/Kg-dry	1	9/7/2005
Dibenz(a,h)anthracene	ND	0.027		mg/Kg-dry	1	9/7/2005
Fluoranthene	ND	0.027		mg/Kg-dry	1	9/7/2005
Fluorene	ND	0.027		mg/Kg-dry	1	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.027		mg/Kg-dry	1	9/7/2005
Naphthalene	ND	0.027		mg/Kg-dry	1	9/7/2005
Phenanthrene	ND	0.027		mg/Kg-dry	1	9/7/2005
Pyrene	ND	0.027		mg/Kg-dry	1	9/7/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	8.80	0.01	*	wt%	1	9/7/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 09, 2005
Date Printed: September 09, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081158
Project: 3205050441.03, Ft. Sheridan
Lab ID: 05081158-002

Client Sample ID: Coal Store 3-B
Collection Date: 8/31/2005 10:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471A**			Prep Date: **9/2/2005**		Analyst: **JG**
Mercury	0.2	0.03		mg/Kg-dry	1	9/2/2005
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/2/2005**		Analyst: **JG**
Arsenic	8.7	1.2		mg/Kg-dry	10	9/2/2005
Barium	190	2.4		mg/Kg-dry	20	9/6/2005
Cadmium	1.4	1.2		mg/Kg-dry	20	9/6/2005
Chromium	30	1.2		mg/Kg-dry	10	9/2/2005
Lead	410	1.2		mg/Kg-dry	10	9/2/2005
Selenium	ND	1.2		mg/Kg-dry	10	9/2/2005
Silver	ND	2.4		mg/Kg-dry	20	9/6/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.39		mg/Kg-dry	10	9/7/2005
Acenaphthylene	ND	0.39		mg/Kg-dry	10	9/7/2005
Anthracene	1.4	0.39		mg/Kg-dry	10	9/7/2005
Benz(a)anthracene	3.8	0.39		mg/Kg-dry	10	9/7/2005
Benzo(a)pyrene	1.8	0.39		mg/Kg-dry	10	9/7/2005
Benzo(b)fluoranthene	2.8	0.39		mg/Kg-dry	10	9/7/2005
Benzo(g,h,i)perylene	0.96	0.39		mg/Kg-dry	10	9/7/2005
Benzo(k)fluoranthene	0.8	0.39		mg/Kg-dry	10	9/7/2005
Chrysene	4.3	0.39		mg/Kg-dry	10	9/7/2005
Dibenz(a,h)anthracene	ND	0.39		mg/Kg-dry	10	9/7/2005
Fluoranthene	8.4	0.39		mg/Kg-dry	10	9/7/2005
Fluorene	0.4	0.39		mg/Kg-dry	10	9/7/2005
Indeno(1,2,3-cd)pyrene	0.84	0.39		mg/Kg-dry	10	9/7/2005
Naphthalene	0.4	0.39		mg/Kg-dry	10	9/7/2005
Phenanthrene	4.7	0.39		mg/Kg-dry	10	9/7/2005
Pyrene	6.9	0.39		mg/Kg-dry	10	9/7/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	16.4	0.01	*	wt%	1	9/7/2005

Qualifiers:
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 09, 2005
Date Printed: September 09, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081158
Project: 3205050441.03, Ft. Sheridan
Lab ID: 05081158-003

Client Sample ID: Coal Store 3-C
Collection Date: 8/31/2005 10:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471A**			Prep Date: **9/2/2005**		Analyst: **JG**
Mercury	0.59	0.026		mg/Kg-dry	1	9/2/2005
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/2/2005**		Analyst: **JG**
Arsenic	23	1.1		mg/Kg-dry	10	9/2/2005
Barium	260	2.2		mg/Kg-dry	20	9/6/2005
Cadmium	3.5	1.1		mg/Kg-dry	20	9/6/2005
Chromium	14	1.1		mg/Kg-dry	10	9/2/2005
Lead	440	1.1		mg/Kg-dry	10	9/2/2005
Selenium	1.2	1.1		mg/Kg-dry	10	9/2/2005
Silver	ND	2.2		mg/Kg-dry	20	9/6/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.036		mg/Kg-dry	10	9/7/2005
Acenaphthylene	ND	0.036		mg/Kg-dry	10	9/7/2005
Anthracene	0.076	0.036		mg/Kg-dry	10	9/7/2005
Benz(a)anthracene	0.22	0.036		mg/Kg-dry	10	9/7/2005
Benzo(a)pyrene	0.24	0.036		mg/Kg-dry	10	9/7/2005
Benzo(b)fluoranthene	0.39	0.036		mg/Kg-dry	10	9/7/2005
Benzo(g,h,i)perylene	0.22	0.036		mg/Kg-dry	10	9/7/2005
Benzo(k)fluoranthene	0.1	0.036		mg/Kg-dry	10	9/7/2005
Chrysene	0.21	0.036		mg/Kg-dry	10	9/7/2005
Dibenz(a,h)anthracene	0.14	0.036		mg/Kg-dry	10	9/7/2005
Fluoranthene	0.57	0.036		mg/Kg-dry	10	9/7/2005
Fluorene	ND	0.036		mg/Kg-dry	10	9/7/2005
Indeno(1,2,3-cd)pyrene	0.17	0.036		mg/Kg-dry	10	9/7/2005
Naphthalene	0.047	0.036		mg/Kg-dry	10	9/7/2005
Phenanthrene	0.33	0.036		mg/Kg-dry	10	9/7/2005
Pyrene	0.46	0.036		mg/Kg-dry	10	9/7/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	8.59	0.01	*	wt%	1	9/7/2005

Qualifiers:
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J - Analyte detected below quanititation limits
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HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 09, 2005
Date Printed: September 09, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081158
Project: 3205050441.03, Ft. Sheridan
Lab ID: 05081158-004

Client Sample ID: Ex Area 8-A
Collection Date: 8/31/2005 12:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.036		mg/Kg-dry	10	9/7/2005
Acenaphthylene	ND	0.036		mg/Kg-dry	10	9/7/2005
Anthracene	ND	0.036		mg/Kg-dry	10	9/7/2005
Benz(a)anthracene	ND	0.036		mg/Kg-dry	10	9/7/2005
Benzo(a)pyrene	ND	0.036		mg/Kg-dry	10	9/7/2005
Benzo(b)fluoranthene	ND	0.036		mg/Kg-dry	10	9/7/2005
Benzo(g,h,i)perylene	ND	0.036		mg/Kg-dry	10	9/7/2005
Benzo(k)fluoranthene	ND	0.036		mg/Kg-dry	10	9/7/2005
Chrysene	ND	0.036		mg/Kg-dry	10	9/7/2005
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	10	9/7/2005
Fluoranthene	ND	0.036		mg/Kg-dry	10	9/7/2005
Fluorene	ND	0.036		mg/Kg-dry	10	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.036		mg/Kg-dry	10	9/7/2005
Naphthalene	ND	0.036		mg/Kg-dry	10	9/7/2005
Phenanthrene	ND	0.036		mg/Kg-dry	10	9/7/2005
Pyrene	ND	0.036		mg/Kg-dry	10	9/7/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	9.09	0.01	*	wt%	1	9/7/2005

Qualifiers:
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J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 09, 2005
Date Printed: September 09, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081158
Project: 3205050441.03, Ft. Sheridan
Lab ID: 05081158-005

Client Sample ID: Ex Area 8-B
Collection Date: 8/31/2005 12:45:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.035		mg/Kg-dry	10	9/7/2005
Acenaphthylene	ND	0.035		mg/Kg-dry	10	9/7/2005
Anthracene	ND	0.035		mg/Kg-dry	10	9/7/2005
Benz(a)anthracene	ND	0.035		mg/Kg-dry	10	9/7/2005
Benzo(a)pyrene	ND	0.035		mg/Kg-dry	10	9/7/2005
Benzo(b)fluoranthene	ND	0.035		mg/Kg-dry	10	9/7/2005
Benzo(g,h,i)perylene	ND	0.035		mg/Kg-dry	10	9/7/2005
Benzo(k)fluoranthene	ND	0.035		mg/Kg-dry	10	9/7/2005
Chrysene	ND	0.035		mg/Kg-dry	10	9/7/2005
Dibenz(a,h)anthracene	ND	0.035		mg/Kg-dry	10	9/7/2005
Fluoranthene	ND	0.035		mg/Kg-dry	10	9/7/2005
Fluorene	ND	0.035		mg/Kg-dry	10	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.035		mg/Kg-dry	10	9/7/2005
Naphthalene	ND	0.035		mg/Kg-dry	10	9/7/2005
Phenanthrene	ND	0.035		mg/Kg-dry	10	9/7/2005
Pyrene	ND	0.035		mg/Kg-dry	10	9/7/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	8.45	0.01	*	wt%	1	9/7/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 09, 2005
Date Printed: September 09, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081158
Project: 3205050441.03, Ft. Sheridan
Lab ID: 05081158-006

Client Sample ID: Ex Area 8-C
Collection Date: 8/31/2005 1:45:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.037		mg/Kg-dry	10	9/7/2005
Acenaphthylene	ND	0.037		mg/Kg-dry	10	9/7/2005
Anthracene	ND	0.037		mg/Kg-dry	10	9/7/2005
Benz(a)anthracene	ND	0.037		mg/Kg-dry	10	9/7/2005
Benzo(a)pyrene	ND	0.037		mg/Kg-dry	10	9/7/2005
Benzo(b)fluoranthene	ND	0.037		mg/Kg-dry	10	9/7/2005
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	10	9/7/2005
Benzo(k)fluoranthene	ND	0.037		mg/Kg-dry	10	9/7/2005
Chrysene	ND	0.037		mg/Kg-dry	10	9/7/2005
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	10	9/7/2005
Fluoranthene	ND	0.037		mg/Kg-dry	10	9/7/2005
Fluorene	ND	0.037		mg/Kg-dry	10	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	10	9/7/2005
Naphthalene	ND	0.037		mg/Kg-dry	10	9/7/2005
Phenanthrene	ND	0.037		mg/Kg-dry	10	9/7/2005
Pyrene	ND	0.037		mg/Kg-dry	10	9/7/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	12.2	0.01	*	wt%	1	9/7/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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CHAIN OF CUSTODY RECORD

Nº: 810194 Page: 1 of 1

Company: MACTEC E&C
Project Number: 3205050441.03 Client Tracking No.:
Project Name: FT. SHERIDAN
Location/Address:
Sampler(s): ANDY HASTINGS/DENNIS NAGG
Report To: DENNIS NAGG Phone:
QC Level: 1 ___ 2 ___ 3 ___ 4 ___ Fax:
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other:

P.O. No.:
Quote No.: 274

Turn Around: STND
Results Needed: 9/7/05 am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	PNAS	RCRA METALS	Remarks	Lab No.
COALSTORE 3-A	8/31/05	0955	S		X	N	1	X	X		001
COALSTORE 3-B	↓	1010	↓		↓	↓	1	X	X		002
COALSTORE 3-C	↓	1030	↓		↓	↓	1	X	X		003
EX AREA 8-A	↓	1200	↓		↓	↓	1	X			004
EX AREA 8-B	↓	1245	↓		↓	↓	1	X			005
EX AREA 8-C	↓	1345	↓		↓	↓	1	X			006

Relinquished by: (Signature)	Dennis E. Nagg	Date/Time:	8/31/05 1540
Received by: (Signature)	Earl Frame	Date/Time:	8-31-05 3:40
Relinquished by: (Signature)	Earl Frame	Date/Time:	8-31-05 5:50
Received for lab by: (Signature)	Jesus Cantu	Date/Time:	8/31/05
Relinquished by: (Signature)		Date/Time:	1750

Laboratory Use: Sample Verification:
Container OK Yes ☒ No ☐
Samples Leaking Yes ☐ No ☒
Refrigerated (Temp: 5 °C) Yes ☒ No ☐
Sample Labels Match Sample ID Yes ☐ No ☐

Work Order No.: 0508158

Preservation Code:
A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC

Date and Time Received: 08/31/2005

Work Order Number 05081158

Received by: JC

Checklist completed by: Jesus Carrt (Signature) 8/31/05 (Date)

Reviewed by: c 4 (Initials) 9/9/05 (Date)

Matrix

Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 5 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples pH checked?	Yes ☐	No ☐	Checked by:
Water - Samples properly preserved?	Yes ☐	No ☐	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: Date contacted: Contacted by:

Response:

STAT Analysis Corporation
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September 12, 2005

Checked & OK
DGN 9/12/05

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205050441.03, NAVFAC- Ft. Sheridan STAT Project No: 05081102

Dear Dennis Nagg:

STAT Analysis received 11 samples for the referenced project on 8/30/2005. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Chris Forst
Assistant Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: September 12, 200

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab Order: 05081102

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
05081102-001A	368-AA		8/29/2005 9:25:00 AM	8/30/2005
05081102-001B	368-AA		8/29/2005 9:25:00 AM	8/30/2005
05081102-002A	368-AB		8/29/2005 9:45:00 AM	8/30/2005
05081102-002B	368-AB		8/29/2005 9:45:00 AM	8/30/2005
05081102-003A	368-AC		8/29/2005 10:10:00 AM	8/30/2005
05081102-003B	368-AC		8/29/2005 10:10:00 AM	8/30/2005
05081102-004A	B-49A		8/29/2005 12:20:00 PM	8/30/2005
05081102-004B	B-49A		8/29/2005 12:20:00 PM	8/30/2005
05081102-005A	B-73A		8/29/2005 11:40:00 AM	8/30/2005
05081102-005B	B-73A		8/29/2005 11:40:00 AM	8/30/2005
05081102-006A	B-73B		8/29/2005 1:20:00 PM	8/30/2005
05081102-006B	B-73B		8/29/2005 1:20:00 PM	8/30/2005
05081102-007A	B-74A		8/29/2005 10:50:00 AM	8/30/2005
05081102-007B	B-74A		8/29/2005 10:50:00 AM	8/30/2005
05081102-008A	B-74B		8/29/2005 1:30:00 PM	8/30/2005
05081102-008B	B-74B		8/29/2005 1:30:00 PM	8/30/2005
05081102-009A	B-74C		8/29/2005 2:30:00 PM	8/30/2005
05081102-009B	B-74C		8/29/2005 2:30:00 PM	8/30/2005
05081102-010A	378-AA		8/29/2005 3:30:00 PM	8/30/2005
05081102-010B	378-AA		8/29/2005 3:30:00 PM	8/30/2005
05081102-011A	378-AB		8/29/2005 3:55:00 PM	8/30/2005
05081102-011B	378-AB		8/29/2005 3:55:00 PM	8/30/2005

CLIENT: MACTEC Engineering and Consulting, Inc.
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab Order: 05081102

CASE NARRATIVE

Sample 368-AA (05081102-001) had high SVOC soil surrogate recovery for Nitrobenzene-d5 (134% Recovery, QC Limits 23-120%).

Sample 368-AB (05081102-002) had high SVOC soil surrogate recovery for Nitrobenzene-d5 (135% Recovery, QC Limits 23-120%).

Sample 368-AB (05081102-002) had high PNA soil surrogate recovery for 2-Fluorobiphenyl (165% Recovery, QC Limits 30-115%).

The MSD prepared from sample 368-AC (05081102-003) had high SVOC soil spike recovery for 2-Chlorophenol (93% Recovery, QC Limits 61-91%).

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-001

Client Sample ID: 368-AA
Collection Date: 8/29/2005 9:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471A**			Prep Date: **9/1/2005**		Analyst: **JG**
Mercury	0.13	0.037		mg/Kg-dry	1	9/2/2005
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/1/2005**		Analyst: **JG**
Arsenic	7.2	1.4		mg/Kg-dry	10	9/2/2005
Barium	200	1.4		mg/Kg-dry	10	9/2/2005
Cadmium	1.1	0.7		mg/Kg-dry	10	9/2/2005
Chromium	28	1.4		mg/Kg-dry	10	9/2/2005
Lead	44	0.7		mg/Kg-dry	10	9/2/2005
Selenium	1.6	1.4		mg/Kg-dry	10	9/2/2005
Silver	ND	1.4		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **VS**
Acenaphthene	ND	0.036		mg/Kg-dry	1	9/4/2005
Acenaphthylene	ND	0.036		mg/Kg-dry	1	9/4/2005
Anthracene	ND	0.036		mg/Kg-dry	1	9/4/2005
Benz(a)anthracene	ND	0.036		mg/Kg-dry	1	9/4/2005
Benzo(a)pyrene	ND	0.036		mg/Kg-dry	1	9/4/2005
Benzo(b)fluoranthene	ND	0.036		mg/Kg-dry	1	9/4/2005
Benzo(g,h,i)perylene	ND	0.036		mg/Kg-dry	1	9/4/2005
Benzo(k)fluoranthene	ND	0.036		mg/Kg-dry	1	9/4/2005
Chrysene	ND	0.036		mg/Kg-dry	1	9/4/2005
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	1	9/4/2005
Fluoranthene	ND	0.036		mg/Kg-dry	1	9/4/2005
Fluorene	ND	0.036		mg/Kg-dry	1	9/4/2005
Indeno(1,2,3-cd)pyrene	ND	0.036		mg/Kg-dry	1	9/4/2005
Naphthalene	2.6	0.047		mg/Kg-dry	10	9/4/2005
Phenanthrene	0.036	0.036		mg/Kg-dry	1	9/4/2005
Pyrene	ND	0.036		mg/Kg-dry	1	9/4/2005
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
1,2,4-Trichlorobenzene	ND	0.24		mg/Kg-dry	1	9/3/2005
1,2-Dichlorobenzene	ND	0.24		mg/Kg-dry	1	9/3/2005
1,3-Dichlorobenzene	ND	0.24		mg/Kg-dry	1	9/3/2005
1,4-Dichlorobenzene	ND	0.24		mg/Kg-dry	1	9/3/2005
2, 2'-oxybis(1-Chloropropane)	ND	0.24		mg/Kg-dry	1	9/3/2005
2,4,5-Trichlorophenol	ND	0.47		mg/Kg-dry	1	9/3/2005
2,4,6-Trichlorophenol	ND	0.24		mg/Kg-dry	1	9/3/2005
2,4-Dichlorophenol	ND	0.24		mg/Kg-dry	1	9/3/2005
2,4-Dimethylphenol	ND	0.24		mg/Kg-dry	1	9/3/2005
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	9/3/2005

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-001

Client Sample ID: 368-AA
Collection Date: 8/29/2005 9:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
2,4-Dinitrotoluene	ND	0.24		mg/Kg-dry	1	9/3/2005
2,6-Dinitrotoluene	ND	0.24		mg/Kg-dry	1	9/3/2005
2-Chloronaphthalene	ND	0.24		mg/Kg-dry	1	9/3/2005
2-Chlorophenol	ND	0.24		mg/Kg-dry	1	9/3/2005
2-Methylnaphthalene	1	0.24		mg/Kg-dry	1	9/3/2005
2-Methylphenol	ND	0.24		mg/Kg-dry	1	9/3/2005
2-Nitroaniline	ND	1.1		mg/Kg-dry	1	9/3/2005
2-Nitrophenol	ND	0.24		mg/Kg-dry	1	9/3/2005
3,3'-Dichlorobenzidine	ND	0.47		mg/Kg-dry	1	9/3/2005
3-Nitroaniline	ND	1.1		mg/Kg-dry	1	9/3/2005
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	9/3/2005
4-Bromophenyl phenyl ether	ND	0.24		mg/Kg-dry	1	9/3/2005
4-Chloro-3-methylphenol	ND	0.24		mg/Kg-dry	1	9/3/2005
4-Chloroaniline	ND	0.24		mg/Kg-dry	1	9/3/2005
4-Chlorophenyl phenyl ether	ND	0.24		mg/Kg-dry	1	9/3/2005
4-Methylphenol	ND	0.24		mg/Kg-dry	1	9/3/2005
4-Nitroaniline	ND	1.1		mg/Kg-dry	1	9/3/2005
4-Nitrophenol	ND	1.1		mg/Kg-dry	1	9/3/2005
Aniline	ND	0.24		mg/Kg-dry	1	9/3/2005
Benzidine	ND	0.24		mg/Kg-dry	1	9/3/2005
Benzoic acid	ND	1.1		mg/Kg-dry	1	9/3/2005
Benzyl alcohol	ND	0.24		mg/Kg-dry	1	9/3/2005
Bis(2-chloroethoxy)methane	ND	0.24		mg/Kg-dry	1	9/3/2005
Bis(2-chloroethyl)ether	ND	0.24		mg/Kg-dry	1	9/3/2005
Bis(2-ethylhexyl)phthalate	0.28	0.24		mg/Kg-dry	1	9/3/2005
Butyl benzyl phthalate	ND	0.24		mg/Kg-dry	1	9/3/2005
Carbazole	ND	0.24		mg/Kg-dry	1	9/3/2005
Di-n-butyl phthalate	ND	0.24		mg/Kg-dry	1	9/3/2005
Di-n-octyl phthalate	ND	0.24		mg/Kg-dry	1	9/3/2005
Dibenzofuran	ND	0.24		mg/Kg-dry	1	9/3/2005
Diethyl phthalate	ND	0.24		mg/Kg-dry	1	9/3/2005
Dimethyl phthalate	ND	0.24		mg/Kg-dry	1	9/3/2005
Hexachlorobenzene	ND	0.24		mg/Kg-dry	1	9/3/2005
Hexachlorobutadiene	ND	0.24		mg/Kg-dry	1	9/3/2005
Hexachlorocyclopentadiene	ND	0.24		mg/Kg-dry	1	9/3/2005
Hexachloroethane	ND	0.24		mg/Kg-dry	1	9/3/2005
Isophorone	ND	0.24		mg/Kg-dry	1	9/3/2005
N-Nitrosodi-n-propylamine	ND	0.24		mg/Kg-dry	1	9/3/2005

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-001

Client Sample ID: 368-AA
Collection Date: 8/29/2005 9:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
N-Nitrosodimethylamine	ND	0.24		mg/Kg-dry	1	9/3/2005
N-Nitrosodiphenylamine	ND	0.24		mg/Kg-dry	1	9/3/2005
Nitrobenzene	ND	0.24		mg/Kg-dry	1	9/3/2005
Pentachlorophenol	ND	1.1		mg/Kg-dry	1	9/3/2005
Phenol	ND	0.24		mg/Kg-dry	1	9/3/2005
Pyridine	ND	0.24		mg/Kg-dry	1	9/3/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
Acetone	0.2	0.079		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0079		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0079		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0079		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.016		mg/Kg-dry	1	9/5/2005
2-Butanone	0.04	0.016		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.0079		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0079		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0079		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0079		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.016		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0079		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.016		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0079		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0079		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0079		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0079		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0079		mg/Kg-dry	1	9/5/2005
1,2-Dichloropropane	ND	0.0079		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0079		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0079		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.0079		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.016		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.016		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.016		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0079		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0079		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0079		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0079		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0079		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0079		mg/Kg-dry	1	9/5/2005

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Date Reported: September 12, 2005
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Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-001

Client Sample ID: 368-AA
Collection Date: 8/29/2005 9:25:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
1,1,2-Trichloroethane	ND	0.0079		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.0079		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.0079		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.024		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/2/2005**		Analyst: **RW**
Percent Moisture	31.6	0.01	*	wt%	1	9/3/2005

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Date Reported: September 12, 2005
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Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-002

Client Sample ID: 368-AB
Collection Date: 8/29/2005 9:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	9/3/2005
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	9/3/2005
Nitrobenzene	ND	0.22		mg/Kg-dry	1	9/3/2005
Pentachlorophenol	ND	1		mg/Kg-dry	1	9/3/2005
Phenol	ND	0.22		mg/Kg-dry	1	9/3/2005
Pyridine	ND	0.22		mg/Kg-dry	1	9/3/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
Acetone	ND	0.052		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0052		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0052		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0052		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.01		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.01		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.0052		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0052		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0052		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0052		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.01		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0052		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.01		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0052		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0052		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0052		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0052		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0052		mg/Kg-dry	1	9/5/2005
1,2-Dichloropropane	ND	0.0052		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0052		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0052		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.0052		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.01		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.01		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.01		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0052		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0052		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0052		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0052		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0052		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0052		mg/Kg-dry	1	9/5/2005

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-002

Client Sample ID: 368-AB
Collection Date: 8/29/2005 9:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
2,4-Dinitrotoluene	ND	0.22		mg/Kg-dry	1	9/3/2005
2,6-Dinitrotoluene	ND	0.22		mg/Kg-dry	1	9/3/2005
2-Chloronaphthalene	ND	0.22		mg/Kg-dry	1	9/3/2005
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	9/3/2005
2-Methylnaphthalene	ND	0.22		mg/Kg-dry	1	9/3/2005
2-Methylphenol	ND	0.22		mg/Kg-dry	1	9/3/2005
2-Nitroaniline	ND	1		mg/Kg-dry	1	9/3/2005
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	9/3/2005
3,3'-Dichlorobenzidine	ND	0.42		mg/Kg-dry	1	9/3/2005
3-Nitroaniline	ND	1		mg/Kg-dry	1	9/3/2005
4,6-Dinitro-2-methylphenol	ND	1		mg/Kg-dry	1	9/3/2005
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	9/3/2005
4-Chloro-3-methylphenol	ND	0.22		mg/Kg-dry	1	9/3/2005
4-Chloroaniline	ND	0.22		mg/Kg-dry	1	9/3/2005
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	9/3/2005
4-Methylphenol	ND	0.22		mg/Kg-dry	1	9/3/2005
4-Nitroaniline	ND	1		mg/Kg-dry	1	9/3/2005
4-Nitrophenol	ND	1		mg/Kg-dry	1	9/3/2005
Aniline	ND	0.22		mg/Kg-dry	1	9/3/2005
Benzidine	ND	0.22		mg/Kg-dry	1	9/3/2005
Benzoic acid	ND	1		mg/Kg-dry	1	9/3/2005
Benzyl alcohol	ND	0.22		mg/Kg-dry	1	9/3/2005
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	9/3/2005
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	9/3/2005
Bis(2-ethylhexyl)phthalate	0.29	0.22		mg/Kg-dry	1	9/3/2005
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	9/3/2005
Carbazole	ND	0.22		mg/Kg-dry	1	9/3/2005
Di-n-butyl phthalate	ND	0.22		mg/Kg-dry	1	9/3/2005
Di-n-octyl phthalate	ND	0.22		mg/Kg-dry	1	9/3/2005
Dibenzofuran	ND	0.22		mg/Kg-dry	1	9/3/2005
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	9/3/2005
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	9/3/2005
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	9/3/2005
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	9/3/2005
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	9/3/2005
Hexachloroethane	ND	0.22		mg/Kg-dry	1	9/3/2005
Isophorone	ND	0.22		mg/Kg-dry	1	9/3/2005
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	9/3/2005

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Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-002

Client Sample ID: 368-AB
Collection Date: 8/29/2005 9:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	9/3/2005
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	9/3/2005
Nitrobenzene	ND	0.22		mg/Kg-dry	1	9/3/2005
Pentachlorophenol	ND	1		mg/Kg-dry	1	9/3/2005
Phenol	ND	0.22		mg/Kg-dry	1	9/3/2005
Pyridine	ND	0.22		mg/Kg-dry	1	9/3/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
Acetone	ND	0.052		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0052		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0052		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0052		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.01		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.01		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.0052		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0052		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0052		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0052		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.01		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0052		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.01		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0052		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0052		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0052		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0052		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0052		mg/Kg-dry	1	9/5/2005
1,2-Dichloropropane	ND	0.0052		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0052		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0052		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.0052		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.01		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.01		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.01		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0052		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0052		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0052		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0052		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0052		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0052		mg/Kg-dry	1	9/5/2005

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STAT Analysis Corporation
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-002

Client Sample ID: 368-AB
Collection Date: 8/29/2005 9:45:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
1,1,2-Trichloroethane	ND	0.0052		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.0052		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.0052		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/2/2005**		Analyst: **RW**
Percent Moisture	22.8	0.01	*	wt%	1	9/3/2005

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-003

Client Sample ID: 368-AC
Collection Date: 8/29/2005 10:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471A**			Prep Date: **9/1/2005**		Analyst: **JG**
Mercury	0.078	0.031		mg/Kg-dry	1	9/2/2005
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/1/2005**		Analyst: **JG**
Arsenic	7.1	1.3		mg/Kg-dry	10	9/2/2005
Barium	120	1.3		mg/Kg-dry	10	9/2/2005
Cadmium	0.76	0.65		mg/Kg-dry	10	9/2/2005
Chromium	22	1.3		mg/Kg-dry	10	9/2/2005
Lead	31	0.65		mg/Kg-dry	10	9/2/2005
Selenium	ND	1.3		mg/Kg-dry	10	9/2/2005
Silver	ND	1.3		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **VS**
Acenaphthene	ND	0.033		mg/Kg-dry	1	9/3/2005
Acenaphthylene	ND	0.033		mg/Kg-dry	1	9/3/2005
Anthracene	ND	0.033		mg/Kg-dry	1	9/3/2005
Benz(a)anthracene	0.074	0.033		mg/Kg-dry	1	9/3/2005
Benzo(a)pyrene	0.045	0.033		mg/Kg-dry	1	9/3/2005
Benzo(b)fluoranthene	0.066	0.033		mg/Kg-dry	1	9/3/2005
Benzo(g,h,i)perylene	ND	0.033		mg/Kg-dry	1	9/3/2005
Benzo(k)fluoranthene	ND	0.033		mg/Kg-dry	1	9/3/2005
Chrysene	0.063	0.033		mg/Kg-dry	1	9/3/2005
Dibenz(a,h)anthracene	ND	0.033		mg/Kg-dry	1	9/3/2005
Fluoranthene	0.12	0.033		mg/Kg-dry	1	9/3/2005
Fluorene	ND	0.033		mg/Kg-dry	1	9/3/2005
Indeno(1,2,3-cd)pyrene	ND	0.033		mg/Kg-dry	1	9/3/2005
Naphthalene	ND	0.033		mg/Kg-dry	1	9/3/2005
Phenanthrene	0.056	0.033		mg/Kg-dry	1	9/3/2005
Pyrene	0.11	0.033		mg/Kg-dry	1	9/3/2005
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
1,2,4-Trichlorobenzene	ND	0.23		mg/Kg-dry	1	9/3/2005
1,2-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	9/3/2005
1,3-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	9/3/2005
1,4-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	9/3/2005
2, 2'-oxybis(1-Chloropropane)	ND	0.23		mg/Kg-dry	1	9/3/2005
2,4,5-Trichlorophenol	ND	0.44		mg/Kg-dry	1	9/3/2005
2,4,6-Trichlorophenol	ND	0.23		mg/Kg-dry	1	9/3/2005
2,4-Dichlorophenol	ND	0.23		mg/Kg-dry	1	9/3/2005
2,4-Dimethylphenol	ND	0.23		mg/Kg-dry	1	9/3/2005
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	9/3/2005

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-003

Client Sample ID: 368-AC
Collection Date: 8/29/2005 10:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
2,4-Dinitrotoluene	ND	0.23		mg/Kg-dry	1	9/3/2005
2,6-Dinitrotoluene	ND	0.23		mg/Kg-dry	1	9/3/2005
2-Chloronaphthalene	ND	0.23		mg/Kg-dry	1	9/3/2005
2-Chlorophenol	ND	0.23		mg/Kg-dry	1	9/3/2005
2-Methylnaphthalene	ND	0.23		mg/Kg-dry	1	9/3/2005
2-Methylphenol	ND	0.23		mg/Kg-dry	1	9/3/2005
2-Nitroaniline	ND	1.1		mg/Kg-dry	1	9/3/2005
2-Nitrophenol	ND	0.23		mg/Kg-dry	1	9/3/2005
3,3'-Dichlorobenzidine	ND	0.44		mg/Kg-dry	1	9/3/2005
3-Nitroaniline	ND	1.1		mg/Kg-dry	1	9/3/2005
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	9/3/2005
4-Bromophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	9/3/2005
4-Chloro-3-methylphenol	ND	0.23		mg/Kg-dry	1	9/3/2005
4-Chloroaniline	ND	0.23		mg/Kg-dry	1	9/3/2005
4-Chlorophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	9/3/2005
4-Methylphenol	ND	0.23		mg/Kg-dry	1	9/3/2005
4-Nitroaniline	ND	1.1		mg/Kg-dry	1	9/3/2005
4-Nitrophenol	ND	1.1		mg/Kg-dry	1	9/3/2005
Aniline	ND	0.23		mg/Kg-dry	1	9/3/2005
Benzidine	ND	0.23		mg/Kg-dry	1	9/3/2005
Benzoic acid	ND	1.1		mg/Kg-dry	1	9/3/2005
Benzyl alcohol	ND	0.23		mg/Kg-dry	1	9/3/2005
Bis(2-chloroethoxy)methane	ND	0.23		mg/Kg-dry	1	9/3/2005
Bis(2-chloroethyl)ether	ND	0.23		mg/Kg-dry	1	9/3/2005
Bis(2-ethylhexyl)phthalate	ND	0.23		mg/Kg-dry	1	9/3/2005
Butyl benzyl phthalate	ND	0.23		mg/Kg-dry	1	9/3/2005
Carbazole	ND	0.23		mg/Kg-dry	1	9/3/2005
Di-n-butyl phthalate	ND	0.23		mg/Kg-dry	1	9/3/2005
Di-n-octyl phthalate	ND	0.23		mg/Kg-dry	1	9/3/2005
Dibenzofuran	ND	0.23		mg/Kg-dry	1	9/3/2005
Diethyl phthalate	ND	0.23		mg/Kg-dry	1	9/3/2005
Dimethyl phthalate	ND	0.23		mg/Kg-dry	1	9/3/2005
Hexachlorobenzene	ND	0.23		mg/Kg-dry	1	9/3/2005
Hexachlorobutadiene	ND	0.23		mg/Kg-dry	1	9/3/2005
Hexachlorocyclopentadiene	ND	0.23		mg/Kg-dry	1	9/3/2005
Hexachloroethane	ND	0.23		mg/Kg-dry	1	9/3/2005
Isophorone	ND	0.23		mg/Kg-dry	1	9/3/2005
N-Nitrosodi-n-propylamine	ND	0.23		mg/Kg-dry	1	9/3/2005

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-003

Client Sample ID: 368-AC
Collection Date: 8/29/2005 10:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
N-Nitrosodimethylamine	ND	0.23		mg/Kg-dry	1	9/3/2005
N-Nitrosodiphenylamine	ND	0.23		mg/Kg-dry	1	9/3/2005
Nitrobenzene	ND	0.23		mg/Kg-dry	1	9/3/2005
Pentachlorophenol	ND	1.1		mg/Kg-dry	1	9/3/2005
Phenol	ND	0.23		mg/Kg-dry	1	9/3/2005
Pyridine	ND	0.23		mg/Kg-dry	1	9/3/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
Acetone	ND	0.056		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0056		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0056		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0056		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.011		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.011		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.0056		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0056		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0056		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0056		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.011		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0056		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.011		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0056		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0056		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0056		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0056		mg/Kg-dry	1	9/5/2005
1,2-Dichloropropane	ND	0.0056		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0056		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0056		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.0056		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.011		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.011		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.011		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0056		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0056		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0056		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0056		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0056		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0056		mg/Kg-dry	1	9/5/2005

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-003

Client Sample ID: 368-AC
Collection Date: 8/29/2005 10:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
1,1,2-Trichloroethane	ND	0.0056		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.0056		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.0056		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/2/2005**		Analyst: **RW**
Percent Moisture	25.5	0.01	*	wt%	1	9/3/2005

Qualifiers:
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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-004

Client Sample ID: B-49A
Collection Date: 8/29/2005 12:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/1/2005**		Analyst: **JG**
Lead	12	0.54		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/3/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/3/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/3/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/3/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/3/2005
Fluoranthene	0.028	0.028		mg/Kg-dry	1	9/3/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/3/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/3/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/3/2005
Phenanthrene	0.042	0.028		mg/Kg-dry	1	9/3/2005
Pyrene	0.03	0.028		mg/Kg-dry	1	9/3/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
Acetone	ND	0.046		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0046		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0046		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0046		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.0093		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.0093		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.0046		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0046		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0046		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0046		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.0093		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0046		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.0093		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0046		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0046		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0046		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	9/5/2005

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-004

Client Sample ID: B-49A
Collection Date: 8/29/2005 12:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
1,2-Dichloropropane	ND	0.0046		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0046		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0046		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.0093		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.0093		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.0093		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0046		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0046		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0046		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0046		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0046		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0046		mg/Kg-dry	1	9/5/2005
1,1,2-Trichloroethane	ND	0.0046		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.0046		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.0046		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/2/2005**		Analyst: **RW**
Percent Moisture	11.0	0.01	*	wt%	1	9/3/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-005

Client Sample ID: B-73A
Collection Date: 8/29/2005 11:40:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/1/2005**		Analyst: **JG**
Lead	13	0.54		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/3/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/3/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/3/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/3/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/3/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/3/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/3/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/3/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/3/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/3/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/3/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
Acetone	ND	0.044		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0044		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0044		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0044		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.0088		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.0088		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.0044		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0044		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0044		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0044		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.0088		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0044		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.0088		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0044		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0044		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0044		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	9/5/2005

Qualifiers:
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HT - Sample received past holding time
* - Non-accredited parameter
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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-005

Client Sample ID: B-73A
Collection Date: 8/29/2005 11:40:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
1,2-Dichloropropane	ND	0.0044		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0044		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0044		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.0044		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.0088		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.0088		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.0088		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0044		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0044		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0044		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0044		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0044		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0044		mg/Kg-dry	1	9/5/2005
1,1,2-Trichloroethane	ND	0.0044		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.0044		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.0044		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.013		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/2/2005**		Analyst: **RW**
Percent Moisture	12.7	0.01	*	wt%	1	9/3/2005

Qualifiers:
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HT - Sample received past holding time
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E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-006

Client Sample ID: B-73B
Collection Date: 8/29/2005 1:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/1/2005**		Analyst: **JG**
Lead	28	0.65		mg/Kg-dry	10	9/8/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **VS**
Acenaphthene	ND	0.033		mg/Kg-dry	1	9/2/2005
Acenaphthylene	ND	0.033		mg/Kg-dry	1	9/2/2005
Anthracene	ND	0.033		mg/Kg-dry	1	9/2/2005
Benz(a)anthracene	ND	0.033		mg/Kg-dry	1	9/2/2005
Benzo(a)pyrene	ND	0.033		mg/Kg-dry	1	9/2/2005
Benzo(b)fluoranthene	ND	0.033		mg/Kg-dry	1	9/2/2005
Benzo(g,h,i)perylene	ND	0.033		mg/Kg-dry	1	9/2/2005
Benzo(k)fluoranthene	ND	0.033		mg/Kg-dry	1	9/2/2005
Chrysene	0.034	0.033		mg/Kg-dry	1	9/2/2005
Dibenz(a,h)anthracene	ND	0.033		mg/Kg-dry	1	9/2/2005
Fluoranthene	0.047	0.033		mg/Kg-dry	1	9/2/2005
Fluorene	ND	0.033		mg/Kg-dry	1	9/2/2005
Indeno(1,2,3-cd)pyrene	ND	0.033		mg/Kg-dry	1	9/2/2005
Naphthalene	ND	0.033		mg/Kg-dry	1	9/2/2005
Phenanthrene	ND	0.033		mg/Kg-dry	1	9/2/2005
Pyrene	0.033	0.033		mg/Kg-dry	1	9/2/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
Acetone	0.058	0.057		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0057		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0057		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0057		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.011		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.011		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.0057		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0057		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0057		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0057		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.011		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0057		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.011		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0057		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0057		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0057		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	9/5/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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S - Spike Recovery outside accepted recovery limits
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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-006

Client Sample ID: B-73B
Collection Date: 8/29/2005 1:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
1,2-Dichloropropane	ND	0.0057		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0057		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0057		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.011		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.011		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.011		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0057		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0057		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0057		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	9/5/2005
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.0057		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/2/2005**		Analyst: **RW**
Percent Moisture	24.8	0.01	*	wt%	1	9/3/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 12, 2005
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Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-007

Client Sample ID: B-74A
Collection Date: 8/29/2005 10:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/1/2005**		Analyst: **JG**
Lead	15	0.54		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/2/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/2/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/2/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/2/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/2/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/2/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/2/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/2/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/2/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/2/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/2/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/2/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/2/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/2/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/2/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/2/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
Acetone	ND	0.046		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0046		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0046		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0046		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.0092		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.0092		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.0046		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0046		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0046		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0046		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.0092		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0046		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.0092		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0046		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0046		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0046		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	9/5/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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Date Reported: September 12, 2005
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Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-007

Client Sample ID: B-74A
Collection Date: 8/29/2005 10:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
1,2-Dichloropropane	ND	0.0046		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0046		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0046		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.0092		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.0092		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.0092		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0046		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0046		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0046		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0046		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0046		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0046		mg/Kg-dry	1	9/5/2005
1,1,2-Trichloroethane	ND	0.0046		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.0046		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.0046		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/2/2005**		Analyst: **RW**
Percent Moisture	16.1	0.01	*	wt%	1	9/3/2005

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-008

Client Sample ID: B-74B
Collection Date: 8/29/2005 1:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/1/2005**		Analyst: **JG**
Lead	30	0.5		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **VS**
Acenaphthene	ND	0.036		mg/Kg-dry	10	9/4/2005
Acenaphthylene	ND	0.036		mg/Kg-dry	10	9/4/2005
Anthracene	ND	0.036		mg/Kg-dry	10	9/4/2005
Benz(a)anthracene	0.043	0.036		mg/Kg-dry	10	9/4/2005
Benzo(a)pyrene	0.12	0.036		mg/Kg-dry	10	9/4/2005
Benzo(b)fluoranthene	ND	0.036		mg/Kg-dry	10	9/4/2005
Benzo(g,h,i)perylene	ND	0.036		mg/Kg-dry	10	9/4/2005
Benzo(k)fluoranthene	ND	0.036		mg/Kg-dry	10	9/4/2005
Chrysene	0.04	0.036		mg/Kg-dry	10	9/4/2005
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	10	9/4/2005
Fluoranthene	0.087	0.036		mg/Kg-dry	10	9/4/2005
Fluorene	ND	0.036		mg/Kg-dry	10	9/4/2005
Indeno(1,2,3-cd)pyrene	ND	0.036		mg/Kg-dry	10	9/4/2005
Naphthalene	0.069	0.036		mg/Kg-dry	10	9/4/2005
Phenanthrene	0.1	0.036		mg/Kg-dry	10	9/4/2005
Pyrene	0.08	0.036		mg/Kg-dry	10	9/4/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
Acetone	ND	0.079		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0079		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0079		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0079		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.016		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.016		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.0079		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0079		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0079		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0079		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.016		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0079		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.016		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0079		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0079		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0079		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0079		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0079		mg/Kg-dry	1	9/5/2005

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-008

Client Sample ID: B-74B
Collection Date: 8/29/2005 1:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
1,2-Dichloropropane	ND	0.0079		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0079		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0079		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.0079		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.016		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.016		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.016		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0079		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0079		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0079		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0079		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0079		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0079		mg/Kg-dry	1	9/5/2005
1,1,2-Trichloroethane	ND	0.0079		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.0079		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.0079		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.024		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/2/2005**		Analyst: **RW**
Percent Moisture	7.93	0.01	*	wt%	1	9/3/2005

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-009

Client Sample ID: B-74C
Collection Date: 8/29/2005 2:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/1/2005**		Analyst: **JG**
Lead	24	0.55		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/3/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/3/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/3/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/3/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/3/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/3/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/3/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/3/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/3/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/3/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/3/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/3/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
Acetone	0.14	0.058		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0058		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0058		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0058		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.012		mg/Kg-dry	1	9/5/2005
2-Butanone	0.013	0.012		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.0058		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0058		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0058		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0058		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.012		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0058		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.012		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0058		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0058		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0058		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0058		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0058		mg/Kg-dry	1	9/5/2005

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-009

Client Sample ID: B-74C
Collection Date: 8/29/2005 2:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
1,2-Dichloropropane	ND	0.0058		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0058		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0058		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.0058		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.012		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.012		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.012		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0058		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0058		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0058		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0058		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0058		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0058		mg/Kg-dry	1	9/5/2005
1,1,2-Trichloroethane	ND	0.0058		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.0058		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.0058		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/2/2005**		Analyst: **RW**
Percent Moisture	12.8	0.01	*	wt%	1	9/3/2005

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Date Reported: September 12, 2005
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Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-010

Client Sample ID: 378-AA
Collection Date: 8/29/2005 3:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471A**			Prep Date: **9/1/2005**		Analyst: **JG**
Mercury	0.04	0.028		mg/Kg-dry	1	9/2/2005
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/1/2005**		Analyst: **JG**
Arsenic	8.4	1.1		mg/Kg-dry	10	9/2/2005
Barium	110	1.1		mg/Kg-dry	10	9/2/2005
Cadmium	0.77	0.57		mg/Kg-dry	10	9/2/2005
Chromium	7.7	1.1		mg/Kg-dry	10	9/2/2005
Lead	84	0.57		mg/Kg-dry	10	9/2/2005
Selenium	1.3	1.1		mg/Kg-dry	10	9/2/2005
Silver	ND	1.1		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **VS**
Acenaphthene	0.52	0.038		mg/Kg-dry	10	9/4/2005
Acenaphthylene	0.13	0.038		mg/Kg-dry	10	9/4/2005
Anthracene	2.2	0.038		mg/Kg-dry	10	9/4/2005
Benz(a)anthracene	11	0.38		mg/Kg-dry	100	9/4/2005
Benzo(a)pyrene	12	0.38		mg/Kg-dry	100	9/4/2005
Benzo(b)fluoranthene	14	0.38		mg/Kg-dry	100	9/4/2005
Benzo(g,h,i)perylene	7.3	0.38		mg/Kg-dry	100	9/4/2005
Benzo(k)fluoranthene	4.9	0.38		mg/Kg-dry	100	9/4/2005
Chrysene	11	0.38		mg/Kg-dry	100	9/4/2005
Dibenz(a,h)anthracene	0.95	0.038		mg/Kg-dry	10	9/4/2005
Fluoranthene	22	0.38		mg/Kg-dry	100	9/4/2005
Fluorene	0.66	0.038		mg/Kg-dry	10	9/4/2005
Indeno(1,2,3-cd)pyrene	6.4	0.38		mg/Kg-dry	100	9/4/2005
Naphthalene	0.21	0.038		mg/Kg-dry	10	9/4/2005
Phenanthrene	12	0.38		mg/Kg-dry	100	9/4/2005
Pyrene	19	0.38		mg/Kg-dry	100	9/4/2005
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
1,2,4-Trichlorobenzene	ND	0.2		mg/Kg-dry	1	9/4/2005
1,2-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/4/2005
1,3-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/4/2005
1,4-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/4/2005
2, 2'-oxybis(1-Chloropropane)	ND	0.2		mg/Kg-dry	1	9/4/2005
2,4,5-Trichlorophenol	ND	0.38		mg/Kg-dry	1	9/4/2005
2,4,6-Trichlorophenol	ND	0.2		mg/Kg-dry	1	9/4/2005
2,4-Dichlorophenol	ND	0.2		mg/Kg-dry	1	9/4/2005
2,4-Dimethylphenol	ND	0.2		mg/Kg-dry	1	9/4/2005
2,4-Dinitrophenol	ND	0.93		mg/Kg-dry	1	9/4/2005

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Date Reported: September 12, 2005
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Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-010

Client Sample ID: 378-AA
Collection Date: 8/29/2005 3:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
2,4-Dinitrotoluene	ND	0.2		mg/Kg-dry	1	9/4/2005
2,6-Dinitrotoluene	ND	0.2		mg/Kg-dry	1	9/4/2005
2-Chloronaphthalene	ND	0.2		mg/Kg-dry	1	9/4/2005
2-Chlorophenol	ND	0.2		mg/Kg-dry	1	9/4/2005
2-Methylnaphthalene	ND	0.2		mg/Kg-dry	1	9/4/2005
2-Methylphenol	ND	0.2		mg/Kg-dry	1	9/4/2005
2-Nitroaniline	ND	0.93		mg/Kg-dry	1	9/4/2005
2-Nitrophenol	ND	0.2		mg/Kg-dry	1	9/4/2005
3,3'-Dichlorobenzidine	ND	0.38		mg/Kg-dry	1	9/4/2005
3-Nitroaniline	ND	0.93		mg/Kg-dry	1	9/4/2005
4,6-Dinitro-2-methylphenol	ND	0.93		mg/Kg-dry	1	9/4/2005
4-Bromophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/4/2005
4-Chloro-3-methylphenol	ND	0.2		mg/Kg-dry	1	9/4/2005
4-Chloroaniline	ND	0.2		mg/Kg-dry	1	9/4/2005
4-Chlorophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/4/2005
4-Methylphenol	ND	0.2		mg/Kg-dry	1	9/4/2005
4-Nitroaniline	ND	0.93		mg/Kg-dry	1	9/4/2005
4-Nitrophenol	ND	0.93		mg/Kg-dry	1	9/4/2005
Aniline	ND	0.2		mg/Kg-dry	1	9/4/2005
Benzidine	ND	0.2		mg/Kg-dry	1	9/4/2005
Benzoic acid	ND	0.93		mg/Kg-dry	1	9/4/2005
Benzyl alcohol	ND	0.2		mg/Kg-dry	1	9/4/2005
Bis(2-chloroethoxy)methane	ND	0.2		mg/Kg-dry	1	9/4/2005
Bis(2-chloroethyl)ether	ND	0.2		mg/Kg-dry	1	9/4/2005
Bis(2-ethylhexyl)phthalate	0.3	0.2		mg/Kg-dry	1	9/4/2005
Butyl benzyl phthalate	ND	0.2		mg/Kg-dry	1	9/4/2005
Carbazole	0.89	0.2		mg/Kg-dry	1	9/4/2005
Di-n-butyl phthalate	ND	0.2		mg/Kg-dry	1	9/4/2005
Di-n-octyl phthalate	ND	0.2		mg/Kg-dry	1	9/4/2005
Dibenzofuran	0.35	0.2		mg/Kg-dry	1	9/4/2005
Diethyl phthalate	ND	0.2		mg/Kg-dry	1	9/4/2005
Dimethyl phthalate	ND	0.2		mg/Kg-dry	1	9/4/2005
Hexachlorobenzene	ND	0.2		mg/Kg-dry	1	9/4/2005
Hexachlorobutadiene	ND	0.2		mg/Kg-dry	1	9/4/2005
Hexachlorocyclopentadiene	ND	0.2		mg/Kg-dry	1	9/4/2005
Hexachloroethane	ND	0.2		mg/Kg-dry	1	9/4/2005
Isophorone	ND	0.2		mg/Kg-dry	1	9/4/2005
N-Nitrosodi-n-propylamine	ND	0.2		mg/Kg-dry	1	9/4/2005

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-010

Client Sample ID: 378-AA
Collection Date: 8/29/2005 3:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
N-Nitrosodimethylamine	ND	0.2		mg/Kg-dry	1	9/4/2005
N-Nitrosodiphenylamine	ND	0.2		mg/Kg-dry	1	9/4/2005
Nitrobenzene	ND	0.2		mg/Kg-dry	1	9/4/2005
Pentachlorophenol	ND	0.93		mg/Kg-dry	1	9/4/2005
Phenol	ND	0.2		mg/Kg-dry	1	9/4/2005
Pyridine	ND	0.2		mg/Kg-dry	1	9/4/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
Acetone	ND	0.11		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.011		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.011		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.011		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.021		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.021		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.011		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.011		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.011		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.011		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.021		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.011		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.021		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.011		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.011		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.011		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.011		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.011		mg/Kg-dry	1	9/5/2005
1,2-Dichloropropane	ND	0.011		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.011		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.011		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.011		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.021		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.021		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.021		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.011		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.011		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.011		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.011		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.011		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.011		mg/Kg-dry	1	9/5/2005

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Date Reported: September 12, 2005
Date Printed: September 12, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-010

Client Sample ID: 378-AA
Collection Date: 8/29/2005 3:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
1,1,2-Trichloroethane	ND	0.011		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.011		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.011		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.032		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/2/2005**		Analyst: **RW**
Percent Moisture	14.8	0.01	*	wt%	1	9/3/2005

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Date Reported: September 12, 2005
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Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-011

Client Sample ID: 378-AB
Collection Date: 8/29/2005 3:55:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471A**			Prep Date: **9/2/2005**		Analyst: **JG**
Mercury	ND	0.029		mg/Kg-dry	1	9/2/2005
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/1/2005**		Analyst: **JG**
Arsenic	11	1.1		mg/Kg-dry	10	9/2/2005
Barium	120	1.1		mg/Kg-dry	10	9/2/2005
Cadmium	0.78	0.56		mg/Kg-dry	10	9/2/2005
Chromium	28	1.1		mg/Kg-dry	10	9/2/2005
Lead	22	0.56		mg/Kg-dry	10	9/2/2005
Selenium	ND	1.1		mg/Kg-dry	10	9/2/2005
Silver	ND	1.1		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **VS**
Acenaphthene	ND	0.039		mg/Kg-dry	10	9/4/2005
Acenaphthylene	ND	0.039		mg/Kg-dry	10	9/4/2005
Anthracene	0.074	0.039		mg/Kg-dry	10	9/4/2005
Benz(a)anthracene	0.27	0.039		mg/Kg-dry	10	9/4/2005
Benzo(a)pyrene	0.24	0.039		mg/Kg-dry	10	9/4/2005
Benzo(b)fluoranthene	0.32	0.039		mg/Kg-dry	10	9/4/2005
Benzo(g,h,i)perylene	0.15	0.039		mg/Kg-dry	10	9/4/2005
Benzo(k)fluoranthene	0.098	0.039		mg/Kg-dry	10	9/4/2005
Chrysene	0.26	0.039		mg/Kg-dry	10	9/4/2005
Dibenz(a,h)anthracene	0.039	0.039		mg/Kg-dry	10	9/4/2005
Fluoranthene	0.57	0.039		mg/Kg-dry	10	9/4/2005
Fluorene	ND	0.039		mg/Kg-dry	10	9/4/2005
Indeno(1,2,3-cd)pyrene	0.13	0.039		mg/Kg-dry	10	9/4/2005
Naphthalene	ND	0.039		mg/Kg-dry	10	9/4/2005
Phenanthrene	0.32	0.039		mg/Kg-dry	10	9/4/2005
Pyrene	0.45	0.039		mg/Kg-dry	10	9/4/2005
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
1,2,4-Trichlorobenzene	ND	0.2		mg/Kg-dry	1	9/3/2005
1,2-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/3/2005
1,3-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/3/2005
1,4-Dichlorobenzene	ND	0.2		mg/Kg-dry	1	9/3/2005
2, 2'-oxybis(1-Chloropropane)	ND	0.2		mg/Kg-dry	1	9/3/2005
2,4,5-Trichlorophenol	ND	0.39		mg/Kg-dry	1	9/3/2005
2,4,6-Trichlorophenol	ND	0.2		mg/Kg-dry	1	9/3/2005
2,4-Dichlorophenol	ND	0.2		mg/Kg-dry	1	9/3/2005
2,4-Dimethylphenol	ND	0.2		mg/Kg-dry	1	9/3/2005
2,4-Dinitrophenol	ND	0.94		mg/Kg-dry	1	9/3/2005

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Date Reported: September 12, 2005
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Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-011

Client Sample ID: 378-AB
Collection Date: 8/29/2005 3:55:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
2,4-Dinitrotoluene	ND	0.2		mg/Kg-dry	1	9/3/2005
2,6-Dinitrotoluene	ND	0.2		mg/Kg-dry	1	9/3/2005
2-Chloronaphthalene	ND	0.2		mg/Kg-dry	1	9/3/2005
2-Chlorophenol	ND	0.2		mg/Kg-dry	1	9/3/2005
2-Methylnaphthalene	ND	0.2		mg/Kg-dry	1	9/3/2005
2-Methylphenol	ND	0.2		mg/Kg-dry	1	9/3/2005
2-Nitroaniline	ND	0.94		mg/Kg-dry	1	9/3/2005
2-Nitrophenol	ND	0.2		mg/Kg-dry	1	9/3/2005
3,3'-Dichlorobenzidine	ND	0.39		mg/Kg-dry	1	9/3/2005
3-Nitroaniline	ND	0.94		mg/Kg-dry	1	9/3/2005
4,6-Dinitro-2-methylphenol	ND	0.94		mg/Kg-dry	1	9/3/2005
4-Bromophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/3/2005
4-Chloro-3-methylphenol	ND	0.2		mg/Kg-dry	1	9/3/2005
4-Chloroaniline	ND	0.2		mg/Kg-dry	1	9/3/2005
4-Chlorophenyl phenyl ether	ND	0.2		mg/Kg-dry	1	9/3/2005
4-Methylphenol	ND	0.2		mg/Kg-dry	1	9/3/2005
4-Nitroaniline	ND	0.94		mg/Kg-dry	1	9/3/2005
4-Nitrophenol	ND	0.94		mg/Kg-dry	1	9/3/2005
Aniline	ND	0.2		mg/Kg-dry	1	9/3/2005
Benzidine	ND	0.2		mg/Kg-dry	1	9/3/2005
Benzoic acid	ND	0.94		mg/Kg-dry	1	9/3/2005
Benzyl alcohol	ND	0.2		mg/Kg-dry	1	9/3/2005
Bis(2-chloroethoxy)methane	ND	0.2		mg/Kg-dry	1	9/3/2005
Bis(2-chloroethyl)ether	ND	0.2		mg/Kg-dry	1	9/3/2005
Bis(2-ethylhexyl)phthalate	ND	0.2		mg/Kg-dry	1	9/3/2005
Butyl benzyl phthalate	ND	0.2		mg/Kg-dry	1	9/3/2005
Carbazole	ND	0.2		mg/Kg-dry	1	9/3/2005
Di-n-butyl phthalate	ND	0.2		mg/Kg-dry	1	9/3/2005
Di-n-octyl phthalate	ND	0.2		mg/Kg-dry	1	9/3/2005
Dibenzofuran	ND	0.2		mg/Kg-dry	1	9/3/2005
Diethyl phthalate	ND	0.2		mg/Kg-dry	1	9/3/2005
Dimethyl phthalate	ND	0.2		mg/Kg-dry	1	9/3/2005
Hexachlorobenzene	ND	0.2		mg/Kg-dry	1	9/3/2005
Hexachlorobutadiene	ND	0.2		mg/Kg-dry	1	9/3/2005
Hexachlorocyclopentadiene	ND	0.2		mg/Kg-dry	1	9/3/2005
Hexachloroethane	ND	0.2		mg/Kg-dry	1	9/3/2005
Isophorone	ND	0.2		mg/Kg-dry	1	9/3/2005
N-Nitrosodi-n-propylamine	ND	0.2		mg/Kg-dry	1	9/3/2005

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Date Reported: September 12, 2005
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Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081102
Project: 3205050441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081102-011

Client Sample ID: 378-AB
Collection Date: 8/29/2005 3:55:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
N-Nitrosodimethylamine	ND	0.2		mg/Kg-dry	1	9/3/2005
N-Nitrosodiphenylamine	ND	0.2		mg/Kg-dry	1	9/3/2005
Nitrobenzene	ND	0.2		mg/Kg-dry	1	9/3/2005
Pentachlorophenol	ND	0.94		mg/Kg-dry	1	9/3/2005
Phenol	ND	0.2		mg/Kg-dry	1	9/3/2005
Pyridine	ND	0.2		mg/Kg-dry	1	9/3/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
Acetone	ND	0.05		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.005		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.005		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.005		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.01		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.01		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.005		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.005		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.005		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.005		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.01		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.005		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.01		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.005		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.005		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.005		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.005		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.005		mg/Kg-dry	1	9/5/2005
1,2-Dichloropropane	ND	0.005		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.005		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.005		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.005		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.01		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.01		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.01		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.005		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.005		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.005		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.005		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.005		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.005		mg/Kg-dry	1	9/5/2005

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Lab ID: 05081102-011

Client Sample ID: 378-AB
Collection Date: 8/29/2005 3:55:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **8/31/2005**		Analyst: **PS**
1,1,2-Trichloroethane	ND	0.005		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.005		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.005		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/2/2005**		Analyst: **RW**
Percent Moisture	16.5	0.01	*	wt%	1	9/3/2005

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CHAIN OF CUSTODY RECORD

№: 810193

Page: 1 of 1

Company: MACTEC E&C
Project Number: 3205050441.03 Client Tracking No.:
Project Name: NAVFAC - Ft. Sheridan
Location/Address: Ft. Sheridan, IL
Sampler(s): Andrew Hastings
Report To: Dennis Nagg Phone: 773-673-0030
QC Level: 1 ___ 2 ___ 3 ___ 4 ___ Fax: 773-673-0039
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other: ___

P.O. No.:
Quote No.: 274

Turn Around: 1 week - standard
Results Needed: 9/6/05 am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	VOC	SVOC	RCRA 8 Metals	PNAs	Total Lead	Remarks	Lab No.:
368-AA	8/29/05	9:25	Soil		X	F	4	X	X	X				001
368-AB		9:45					4	X	X	X				002
368-AC		10:10					4	X	X	X				003
B-49A		12:20					4	X			X	X		004
B-73A		11:40					4	X			X	X		005
B-73B		13:20					4	X			X	X		006
B-74A		10:50					4	X			X	X		007
B-74B		13:30					4	X			X	X		008
B-74C		14:30					4	X			X	X		009
376-AA		15:30					4	X	X	X				010
375-AB		15:55					4	X	X	X				011

Relinquished by: (Signature)	Andrew Hastings	Date/Time:	8/29/05 10:[illegible]
Received by: (Signature)	Earl [illegible]	Date/Time:	8-30-05 4:[illegible]
Relinquished by: (Signature)	Earl [illegible]	Date/Time:	8-30-05 6:[illegible]
Received for lab by: (Signature)	Jesus Cano	Date/Time:	8/30/05
Relinquished by: (Signature)		Date/Time:	1811

Laboratory Use:
Container OK Yes ✓ No
Samples Leaking Yes No ✓
Refrigerated (Temp) 10°C Yes ✓ No
Sample Labels Match Sample ID Yes ✓ No

Sample Verification:

Work Order No.: 0508[illegible]

Preservation Code:
A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC

Date and Time Received: 08/30/2005

Work Order Number 05081102

Received by: JC

Checklist completed by: Jesus Cant (Signature) 8/30/05 (Date)

Reviewed by: CZ (Initials) 9/8/05 (Date)

Matrix

Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 6 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples pH checked?	Yes ☐	No ☐	Checked by:
Water - Samples properly preserved?	Yes ☐	No ☐	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: Date contacted: Contacted by:

Response:

STAT Analysis Corporation
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September 13, 2005

Checked & OK
DEN 9/13/05

MACTEC Engineering and Consulting, Inc.
5440 N. Cumberland Avenue
Suite 250
Chicago, IL 60656
Telephone: (312) 617-8575
Fax: (312) 491-9716

RE: 3205-05-0441.03, NAVFAC- Ft. Sheridan STAT Project No: 05081159

Dear Dennis Nagg:

STAT Analysis received 18 samples for the referenced project on 8/31/2005. The analytical results are presented in the following report.

This report is revised to reflect changes made after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 563-0371.

Sincerely,

Chris Forst
Assistant Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.

STAT Analysis Corporation

Date: September 13, 200

Client: MACTEC Engineering and Consulting, Inc.
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab Order: 05081159

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
05081159-001A	378-AC		8/30/2005 9:10:00 AM	8/31/2005
05081159-001B	378-AC		8/30/2005 9:10:00 AM	8/31/2005
05081159-002A	LF5-C		8/30/2005 9:50:00 AM	8/31/2005
05081159-003A	LF5-D		8/30/2005 10:30:00 AM	8/31/2005
05081159-004A	LF5-D1		8/30/2005 10:35:00 AM	8/31/2005
05081159-004B	LF5-D1		8/30/2005 10:35:00 AM	8/31/2005
05081159-005A	LF5-A		8/30/2005 11:30:00 AM	8/31/2005
05081159-006A	LF5-A-1		8/30/2005 11:40:00 AM	8/31/2005
05081159-006B	LF5-A-1		8/30/2005 11:40:00 AM	8/31/2005
05081159-007A	LF5-B		8/30/2005 12:15:00 PM	8/31/2005
05081159-008A	LF5-B-1		8/30/2005 12:20:00 PM	8/31/2005
05081159-008B	LF5-B-1		8/30/2005 12:20:00 PM	8/31/2005
05081159-009A	LF5-E		8/30/2005 12:50:00 PM	8/31/2005
05081159-010A	LF5-F		8/30/2005 1:30:00 PM	8/31/2005
05081159-011A	LF5-F-1		8/30/2005 1:35:00 PM	8/31/2005
05081159-011B	LF5-F-1		8/30/2005 1:35:00 PM	8/31/2005
05081159-012A	162-A		8/30/2005 2:20:00 PM	8/31/2005
05081159-012B	162-A		8/30/2005 2:20:00 PM	8/31/2005
05081159-013A	162-B		8/31/2005 2:50:00 PM	8/31/2005
05081159-013B	162-B		8/31/2005 2:50:00 PM	8/31/2005
05081159-014A	162-C		8/31/2005 3:30:00 PM	8/31/2005
05081159-014B	162-C		8/31/2005 3:30:00 PM	8/31/2005
05081159-015A	LF7-A		8/30/2005 4:20:00 PM	8/31/2005
05081159-015B	LF7-A		8/30/2005 4:20:00 PM	8/31/2005
05081159-016A	LF7-A-1		8/30/2005 4:40:00 PM	8/31/2005
05081159-016B	LF7-A-1		8/30/2005 4:40:00 PM	8/31/2005
05081159-017A	LF7-B		8/30/2005 5:00:00 PM	8/31/2005
05081159-017B	LF7-B		8/30/2005 5:00:00 PM	8/31/2005
05081159-018A	LF7-B-1		8/30/2005 5:10:00 PM	8/31/2005
05081159-018B	LF7-B-1		8/30/2005 5:10:00 PM	8/31/2005

CLIENT: MACTEC Engineering and Consulting, Inc.
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab Order: 05081159

CASE NARRATIVE

The Laboratory Control Sample (LCS-16329-SVOC) had high SVOC soil spike recovery for 2-Chlorophenol (93% Recovery, QC Limits 61-91%) and N-Nitrosodi-n-propylamine (102% Recovery, QC Limits 55-100%).

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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-001

Client Sample ID: 378-AC
Collection Date: 8/30/2005 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471A**			Prep Date: **9/2/2005**		Analyst: **JG**
Mercury	0.21	0.031		mg/Kg-dry	1	9/2/2005
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/2/2005**		Analyst: **JG**
Arsenic	9.5	1.2		mg/Kg-dry	10	9/2/2005
Barium	1700	12		mg/Kg-dry	100	9/9/2005
Cadmium	0.93	0.61		mg/Kg-dry	10	9/2/2005
Chromium	14	1.2		mg/Kg-dry	10	9/2/2005
Lead	400	0.61		mg/Kg-dry	10	9/2/2005
Selenium	1.3	1.2		mg/Kg-dry	10	9/2/2005
Silver	ND	1.2		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **VS**
Acenaphthene	0.32	0.045		mg/Kg-dry	10	9/4/2005
Acenaphthylene	0.13	0.045		mg/Kg-dry	10	9/4/2005
Anthracene	2	0.045		mg/Kg-dry	10	9/4/2005
Benz(a)anthracene	8.9	0.45		mg/Kg-dry	100	9/8/2005
Benzo(a)pyrene	8.8	0.45		mg/Kg-dry	100	9/8/2005
Benzo(b)fluoranthene	8.9	0.45		mg/Kg-dry	100	9/8/2005
Benzo(g,h,i)perylene	5.8	0.45		mg/Kg-dry	100	9/8/2005
Benzo(k)fluoranthene	5.1	0.45		mg/Kg-dry	100	9/8/2005
Chrysene	7.4	0.45		mg/Kg-dry	100	9/8/2005
Dibenz(a,h)anthracene	0.83	0.045		mg/Kg-dry	10	9/4/2005
Fluoranthene	16	0.45		mg/Kg-dry	100	9/8/2005
Fluorene	0.6	0.045		mg/Kg-dry	10	9/4/2005
Indeno(1,2,3-cd)pyrene	4.9	0.45		mg/Kg-dry	100	9/8/2005
Naphthalene	0.38	0.045		mg/Kg-dry	10	9/4/2005
Phenanthrene	4.8	0.45		mg/Kg-dry	100	9/8/2005
Pyrene	14	0.45		mg/Kg-dry	100	9/8/2005
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
1,2,4-Trichlorobenzene	ND	0.23		mg/Kg-dry	1	9/4/2005
1,2-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	9/4/2005
1,3-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	9/4/2005
1,4-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	9/4/2005
2, 2'-oxybis(1-Chloropropane)	ND	0.23		mg/Kg-dry	1	9/4/2005
2,4,5-Trichlorophenol	ND	0.45		mg/Kg-dry	1	9/4/2005
2,4,6-Trichlorophenol	ND	0.23		mg/Kg-dry	1	9/4/2005
2,4-Dichlorophenol	ND	0.23		mg/Kg-dry	1	9/4/2005
2,4-Dimethylphenol	ND	0.23		mg/Kg-dry	1	9/4/2005
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	9/4/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-001

Client Sample ID: 378-AC
Collection Date: 8/30/2005 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
2,4-Dinitrotoluene	ND	0.23		mg/Kg-dry	1	9/4/2005
2,6-Dinitrotoluene	ND	0.23		mg/Kg-dry	1	9/4/2005
2-Chloronaphthalene	ND	0.23		mg/Kg-dry	1	9/4/2005
2-Chlorophenol	ND	0.23		mg/Kg-dry	1	9/4/2005
2-Methylnaphthalene	0.41	0.23		mg/Kg-dry	1	9/4/2005
2-Methylphenol	ND	0.23		mg/Kg-dry	1	9/4/2005
2-Nitroaniline	ND	1.1		mg/Kg-dry	1	9/4/2005
2-Nitrophenol	ND	0.23		mg/Kg-dry	1	9/4/2005
3,3'-Dichlorobenzidine	ND	0.45		mg/Kg-dry	1	9/4/2005
3-Nitroaniline	ND	1.1		mg/Kg-dry	1	9/4/2005
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	9/4/2005
4-Bromophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	9/4/2005
4-Chloro-3-methylphenol	ND	0.23		mg/Kg-dry	1	9/4/2005
4-Chloroaniline	ND	0.23		mg/Kg-dry	1	9/4/2005
4-Chlorophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	9/4/2005
4-Methylphenol	ND	0.23		mg/Kg-dry	1	9/4/2005
4-Nitroaniline	ND	1.1		mg/Kg-dry	1	9/4/2005
4-Nitrophenol	ND	1.1		mg/Kg-dry	1	9/4/2005
Aniline	ND	0.23		mg/Kg-dry	1	9/4/2005
Benzidine	ND	0.23		mg/Kg-dry	1	9/4/2005
Benzoic acid	ND	1.1		mg/Kg-dry	1	9/4/2005
Benzyl alcohol	ND	0.23		mg/Kg-dry	1	9/4/2005
Bis(2-chloroethoxy)methane	ND	0.23		mg/Kg-dry	1	9/4/2005
Bis(2-chloroethyl)ether	ND	0.23		mg/Kg-dry	1	9/4/2005
Bis(2-ethylhexyl)phthalate	ND	0.23		mg/Kg-dry	1	9/4/2005
Butyl benzyl phthalate	ND	0.23		mg/Kg-dry	1	9/4/2005
Carbazole	0.33	0.23		mg/Kg-dry	1	9/4/2005
Di-n-butyl phthalate	ND	0.23		mg/Kg-dry	1	9/4/2005
Di-n-octyl phthalate	ND	0.23		mg/Kg-dry	1	9/4/2005
Dibenzofuran	ND	0.23		mg/Kg-dry	1	9/4/2005
Diethyl phthalate	ND	0.23		mg/Kg-dry	1	9/4/2005
Dimethyl phthalate	ND	0.23		mg/Kg-dry	1	9/4/2005
Hexachlorobenzene	ND	0.23		mg/Kg-dry	1	9/4/2005
Hexachlorobutadiene	ND	0.23		mg/Kg-dry	1	9/4/2005
Hexachlorocyclopentadiene	ND	0.23		mg/Kg-dry	1	9/4/2005
Hexachloroethane	ND	0.23		mg/Kg-dry	1	9/4/2005
Isophorone	ND	0.23		mg/Kg-dry	1	9/4/2005
N-Nitrosodi-n-propylamine	ND	0.23		mg/Kg-dry	1	9/4/2005

Qualifiers:
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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-001

Client Sample ID: 378-AC
Collection Date: 8/30/2005 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **9/2/2005**		Analyst: **PAB**
N-Nitrosodimethylamine	ND	0.23		mg/Kg-dry	1	9/4/2005
N-Nitrosodiphenylamine	ND	0.23		mg/Kg-dry	1	9/4/2005
Nitrobenzene	ND	0.23		mg/Kg-dry	1	9/4/2005
Pentachlorophenol	ND	1.1		mg/Kg-dry	1	9/4/2005
Phenol	ND	0.23		mg/Kg-dry	1	9/4/2005
Pyridine	ND	0.23		mg/Kg-dry	1	9/4/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Acetone	ND	0.062		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0062		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0062		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0062		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.013		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.013		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.0062		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0062		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0062		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0062		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.013		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0062		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.013		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0062		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0062		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0062		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0062		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0062		mg/Kg-dry	1	9/5/2005
1,2-Dichloropropane	ND	0.0062		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0062		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0062		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.0062		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.013		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.013		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.013		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0062		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0062		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0062		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0062		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0062		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0062		mg/Kg-dry	1	9/5/2005

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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-001

Client Sample ID: 378-AC
Collection Date: 8/30/2005 9:10:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
1,1,2-Trichloroethane	ND	0.0062		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.0062		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.0062		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.019		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	26.2	0.01	*	wt%	1	9/7/2005

Qualifiers:
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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-002

Client Sample ID: LF5-C
Collection Date: 8/30/2005 9:50:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471A**			Prep Date: **9/2/2005**		Analyst: **JG**
Mercury	ND	0.026		mg/Kg-dry	1	9/2/2005
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/2/2005**		Analyst: **JG**
Arsenic	5.2	1.1		mg/Kg-dry	10	9/2/2005
Barium	44	1.1		mg/Kg-dry	10	9/2/2005
Cadmium	ND	0.54		mg/Kg-dry	10	9/2/2005
Chromium	9.7	1.1		mg/Kg-dry	10	9/2/2005
Lead	32	0.54		mg/Kg-dry	10	9/2/2005
Selenium	ND	1.1		mg/Kg-dry	10	9/2/2005
Silver	ND	1.1		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.037		mg/Kg-dry	10	9/7/2005
Acenaphthylene	ND	0.037		mg/Kg-dry	10	9/7/2005
Anthracene	0.041	0.037		mg/Kg-dry	10	9/7/2005
Benz(a)anthracene	0.067	0.037		mg/Kg-dry	10	9/7/2005
Benzo(a)pyrene	0.11	0.037		mg/Kg-dry	10	9/7/2005
Benzo(b)fluoranthene	0.17	0.037		mg/Kg-dry	10	9/7/2005
Benzo(g,h,i)perylene	ND	0.037		mg/Kg-dry	10	9/7/2005
Benzo(k)fluoranthene	0.13	0.037		mg/Kg-dry	10	9/7/2005
Chrysene	0.045	0.037		mg/Kg-dry	10	9/7/2005
Dibenz(a,h)anthracene	ND	0.037		mg/Kg-dry	10	9/7/2005
Fluoranthene	0.086	0.037		mg/Kg-dry	10	9/7/2005
Fluorene	ND	0.037		mg/Kg-dry	10	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.037		mg/Kg-dry	10	9/7/2005
Naphthalene	ND	0.037		mg/Kg-dry	10	9/7/2005
Phenanthrene	0.041	0.037		mg/Kg-dry	10	9/7/2005
Pyrene	0.075	0.037		mg/Kg-dry	10	9/7/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	12.2	0.01	*	wt%	1	9/7/2005

Qualifiers:
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STAT Analysis Corporation
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-003

Client Sample ID: LF5-D
Collection Date: 8/30/2005 10:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471A**			Prep Date: **9/2/2005**		Analyst: **JG**
Mercury	ND	0.029		mg/Kg-dry	1	9/2/2005
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/2/2005**		Analyst: **JG**
Arsenic	6.8	1.1		mg/Kg-dry	10	9/2/2005
Barium	37	1.1		mg/Kg-dry	10	9/2/2005
Cadmium	ND	0.56		mg/Kg-dry	10	9/2/2005
Chromium	17	1.1		mg/Kg-dry	10	9/2/2005
Lead	13	0.56		mg/Kg-dry	10	9/2/2005
Selenium	ND	1.1		mg/Kg-dry	10	9/2/2005
Silver	ND	1.1		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/7/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/7/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/7/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	12.7	0.01	*	wt%	1	9/7/2005

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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-004

Client Sample ID: LF5-D1
Collection Date: 8/30/2005 10:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.038		mg/Kg-dry	10	9/7/2005
Acenaphthylene	ND	0.038		mg/Kg-dry	10	9/7/2005
Anthracene	0.091	0.038		mg/Kg-dry	10	9/7/2005
Benz(a)anthracene	0.6	0.038		mg/Kg-dry	10	9/7/2005
Benzo(a)pyrene	0.52	0.038		mg/Kg-dry	10	9/7/2005
Benzo(b)fluoranthene	0.65	0.038		mg/Kg-dry	10	9/7/2005
Benzo(g,h,i)perylene	0.31	0.038		mg/Kg-dry	10	9/7/2005
Benzo(k)fluoranthene	0.23	0.038		mg/Kg-dry	10	9/7/2005
Chrysene	0.44	0.038		mg/Kg-dry	10	9/7/2005
Dibenz(a,h)anthracene	0.16	0.038		mg/Kg-dry	10	9/7/2005
Fluoranthene	1.1	0.038		mg/Kg-dry	10	9/7/2005
Fluorene	ND	0.038		mg/Kg-dry	10	9/7/2005
Indeno(1,2,3-cd)pyrene	0.29	0.038		mg/Kg-dry	10	9/7/2005
Naphthalene	0.042	0.038		mg/Kg-dry	10	9/7/2005
Phenanthrene	0.43	0.038		mg/Kg-dry	10	9/7/2005
Pyrene	0.89	0.038		mg/Kg-dry	10	9/7/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Acetone	ND	0.064		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0064		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0064		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0064		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.013		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.013		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.0064		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0064		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0064		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0064		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.013		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0064		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.013		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0064		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0064		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0064		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0064		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0064		mg/Kg-dry	1	9/5/2005
1,2-Dichloropropane	ND	0.0064		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0064		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0064		mg/Kg-dry	1	9/5/2005

Qualifiers:
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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-004

Client Sample ID: LF5-D1
Collection Date: 8/30/2005 10:35:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Ethylbenzene	ND	0.0064		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.013		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.013		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.013		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0064		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0064		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0064		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0064		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0064		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0064		mg/Kg-dry	1	9/5/2005
1,1,2-Trichloroethane	ND	0.0064		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.0064		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.0064		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.019		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	12.6	0.01	*	wt%	1	9/7/2005

Qualifiers:
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B - Analyte detected in the associated Method Blank
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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-005

Client Sample ID: LF5-A
Collection Date: 8/30/2005 11:30:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471A**			Prep Date: **9/2/2005**		Analyst: **JG**
Mercury	ND	0.028		mg/Kg-dry	1	9/2/2005
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/2/2005**		Analyst: **JG**
Arsenic	6.3	1.1		mg/Kg-dry	10	9/2/2005
Barium	46	1.1		mg/Kg-dry	10	9/2/2005
Cadmium	ND	0.52		mg/Kg-dry	10	9/2/2005
Chromium	17	1.1		mg/Kg-dry	10	9/2/2005
Lead	12	0.52		mg/Kg-dry	10	9/2/2005
Selenium	ND	1.1		mg/Kg-dry	10	9/2/2005
Silver	ND	1.1		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/7/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/7/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/7/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	13.7	0.01	*	wt%	1	9/7/2005

Qualifiers:
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HT - Sample received past holding time
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Date Reported: September 09, 2005
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Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-006

Client Sample ID: LF5-A-1
Collection Date: 8/30/2005 11:40:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.03		mg/Kg-dry	1	9/7/2005
Acenaphthylene	ND	0.03		mg/Kg-dry	1	9/7/2005
Anthracene	ND	0.03		mg/Kg-dry	1	9/7/2005
Benz(a)anthracene	ND	0.03		mg/Kg-dry	1	9/7/2005
Benzo(a)pyrene	ND	0.03		mg/Kg-dry	1	9/7/2005
Benzo(b)fluoranthene	ND	0.03		mg/Kg-dry	1	9/7/2005
Benzo(g,h,i)perylene	ND	0.03		mg/Kg-dry	1	9/7/2005
Benzo(k)fluoranthene	ND	0.03		mg/Kg-dry	1	9/7/2005
Chrysene	ND	0.03		mg/Kg-dry	1	9/7/2005
Dibenz(a,h)anthracene	ND	0.03		mg/Kg-dry	1	9/7/2005
Fluoranthene	ND	0.03		mg/Kg-dry	1	9/7/2005
Fluorene	ND	0.03		mg/Kg-dry	1	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.03		mg/Kg-dry	1	9/7/2005
Naphthalene	ND	0.03		mg/Kg-dry	1	9/7/2005
Phenanthrene	ND	0.03		mg/Kg-dry	1	9/7/2005
Pyrene	ND	0.03		mg/Kg-dry	1	9/7/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Acetone	ND	0.048		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0048		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0048		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0048		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.0095		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.0095		mg/Kg-dry	1	9/5/2005
Carbon disulfide	0.005	0.0048		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0048		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0048		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0048		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.0095		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0048		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.0095		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0048		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0048		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0048		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	9/5/2005
1,2-Dichloropropane	ND	0.0048		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0048		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0048		mg/Kg-dry	1	9/5/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-006

Client Sample ID: LF5-A-1
Collection Date: 8/30/2005 11:40:00 AM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.0095		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.0095		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.0095		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0048		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0048		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0048		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0048		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0048		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0048		mg/Kg-dry	1	9/5/2005
1,1,2-Trichloroethane	ND	0.0048		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.0048		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.0048		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	16.2	0.01	*	wt%	1	9/7/2005

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-007

Client Sample ID: LF5-B
Collection Date: 8/30/2005 12:15:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471A**			Prep Date: **9/2/2005**		Analyst: **JG**
Mercury	ND	0.028		mg/Kg-dry	1	9/2/2005
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/2/2005**		Analyst: **JG**
Arsenic	6.4	1.1		mg/Kg-dry	10	9/2/2005
Barium	52	1.1		mg/Kg-dry	10	9/2/2005
Cadmium	ND	0.53		mg/Kg-dry	10	9/2/2005
Chromium	19	1.1		mg/Kg-dry	10	9/2/2005
Lead	13	0.53		mg/Kg-dry	10	9/2/2005
Selenium	ND	1.1		mg/Kg-dry	10	9/2/2005
Silver	ND	1.1		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/7/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/7/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/7/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	13.0	0.01	*	wt%	1	9/7/2005

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-008

Client Sample ID: LF5-B-1
Collection Date: 8/30/2005 12:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.042		mg/Kg-dry	10	9/7/2005
Acenaphthylene	ND	0.042		mg/Kg-dry	10	9/7/2005
Anthracene	0.16	0.042		mg/Kg-dry	10	9/7/2005
Benz(a)anthracene	1.1	0.042		mg/Kg-dry	10	9/7/2005
Benzo(a)pyrene	0.95	0.042		mg/Kg-dry	10	9/7/2005
Benzo(b)fluoranthene	1	0.042		mg/Kg-dry	10	9/7/2005
Benzo(g,h,i)perylene	0.49	0.042		mg/Kg-dry	10	9/7/2005
Benzo(k)fluoranthene	0.56	0.042		mg/Kg-dry	10	9/7/2005
Chrysene	0.85	0.042		mg/Kg-dry	10	9/7/2005
Dibenz(a,h)anthracene	0.22	0.042		mg/Kg-dry	10	9/7/2005
Fluoranthene	2.1	0.042		mg/Kg-dry	10	9/7/2005
Fluorene	ND	0.042		mg/Kg-dry	10	9/7/2005
Indeno(1,2,3-cd)pyrene	0.45	0.042		mg/Kg-dry	10	9/7/2005
Naphthalene	0.047	0.042		mg/Kg-dry	10	9/7/2005
Phenanthrene	0.69	0.042		mg/Kg-dry	10	9/7/2005
Pyrene	1.7	0.042		mg/Kg-dry	10	9/7/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Acetone	ND	0.054		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0054		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0054		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0054		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.011		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.011		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.0054		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0054		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0054		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0054		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.011		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0054		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.011		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0054		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0054		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0054		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0054		mg/Kg-dry	1	9/5/2005
1,2-Dichloropropane	ND	0.0054		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0054		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0054		mg/Kg-dry	1	9/5/2005

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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-008

Client Sample ID: LF5-B-1
Collection Date: 8/30/2005 12:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Ethylbenzene	ND	0.0054		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.011		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.011		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.011		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0054		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0054		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0054		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0054		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0054		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0054		mg/Kg-dry	1	9/5/2005
1,1,2-Trichloroethane	ND	0.0054		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.0054		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.0054		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.017		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	22.3	0.01	*	wt%	1	9/7/2005

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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-009

Client Sample ID: LF5-E
Collection Date: 8/30/2005 12:50:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471A**			Prep Date: **9/2/2005**		Analyst: **JG**
Mercury	ND	0.028		mg/Kg-dry	1	9/2/2005
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/2/2005**		Analyst: **JG**
Arsenic	5.5	1.1		mg/Kg-dry	10	9/2/2005
Barium	47	1.1		mg/Kg-dry	10	9/2/2005
Cadmium	ND	0.56		mg/Kg-dry	10	9/2/2005
Chromium	19	1.1		mg/Kg-dry	10	9/2/2005
Lead	12	0.56		mg/Kg-dry	10	9/2/2005
Selenium	ND	1.1		mg/Kg-dry	10	9/2/2005
Silver	ND	1.1		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/7/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/7/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/7/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	13.2	0.01	*	wt%	1	9/7/2005

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Date Reported: September 09, 2005
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Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-010

Client Sample ID: LF5-F
Collection Date: 8/30/2005 1:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471A**			Prep Date: **9/2/2005**		Analyst: **JG**
Mercury	ND	0.027		mg/Kg-dry	1	9/2/2005
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/2/2005**		Analyst: **JG**
Arsenic	6.9	1.1		mg/Kg-dry	10	9/2/2005
Barium	38	1.1		mg/Kg-dry	10	9/2/2005
Cadmium	ND	0.57		mg/Kg-dry	10	9/2/2005
Chromium	16	1.1		mg/Kg-dry	10	9/2/2005
Lead	12	0.57		mg/Kg-dry	10	9/2/2005
Selenium	ND	1.1		mg/Kg-dry	10	9/2/2005
Silver	ND	1.1		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/7/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/7/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/7/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/7/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/7/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/7/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/7/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/7/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/7/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/7/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/7/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/7/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/7/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/7/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/7/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	12.6	0.01	*	wt%	1	9/7/2005

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Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-011

Client Sample ID: LF5-F-1
Collection Date: 8/30/2005 1:35:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/7/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/7/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/7/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Acetone	ND	0.048		mg/Kg-dry	1	9/5/2005
Benzene	ND	0.0048		mg/Kg-dry	1	9/5/2005
Bromodichloromethane	ND	0.0048		mg/Kg-dry	1	9/5/2005
Bromoform	ND	0.0048		mg/Kg-dry	1	9/5/2005
Bromomethane	ND	0.0096		mg/Kg-dry	1	9/5/2005
2-Butanone	ND	0.0096		mg/Kg-dry	1	9/5/2005
Carbon disulfide	ND	0.0048		mg/Kg-dry	1	9/5/2005
Carbon tetrachloride	ND	0.0048		mg/Kg-dry	1	9/5/2005
Chlorobenzene	ND	0.0048		mg/Kg-dry	1	9/5/2005
Dibromochloromethane	ND	0.0048		mg/Kg-dry	1	9/5/2005
Chloroethane	ND	0.0096		mg/Kg-dry	1	9/5/2005
Chloroform	ND	0.0048		mg/Kg-dry	1	9/5/2005
Chloromethane	ND	0.0096		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethane	ND	0.0048		mg/Kg-dry	1	9/5/2005
1,2-Dichloroethane	ND	0.0048		mg/Kg-dry	1	9/5/2005
1,1-Dichloroethene	ND	0.0048		mg/Kg-dry	1	9/5/2005
cis-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	9/5/2005
trans-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	9/5/2005
1,2-Dichloropropane	ND	0.0048		mg/Kg-dry	1	9/5/2005
cis-1,3-Dichloropropene	ND	0.0048		mg/Kg-dry	1	9/5/2005
trans-1,3-Dichloropropene	ND	0.0048		mg/Kg-dry	1	9/5/2005

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Date Reported: September 09, 2005
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Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-011

Client Sample ID: LF5-F-1
Collection Date: 8/30/2005 1:35:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	9/5/2005
2-Hexanone	ND	0.0096		mg/Kg-dry	1	9/5/2005
4-Methyl-2-pentanone	ND	0.0096		mg/Kg-dry	1	9/5/2005
Methylene chloride	ND	0.0096		mg/Kg-dry	1	9/5/2005
Methyl tert-butyl ether	ND	0.0048		mg/Kg-dry	1	9/5/2005
Styrene	ND	0.0048		mg/Kg-dry	1	9/5/2005
1,1,2,2-Tetrachloroethane	ND	0.0048		mg/Kg-dry	1	9/5/2005
Tetrachloroethene	ND	0.0048		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0048		mg/Kg-dry	1	9/5/2005
1,1,1-Trichloroethane	ND	0.0048		mg/Kg-dry	1	9/5/2005
1,1,2-Trichloroethane	ND	0.0048		mg/Kg-dry	1	9/5/2005
Trichloroethene	ND	0.0048		mg/Kg-dry	1	9/5/2005
Vinyl chloride	ND	0.0048		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.015		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	12.5	0.01	*	wt%	1	9/7/2005

Qualifiers:
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B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2255 West Harrison St., Suite B, Chicago, IL 60612-3505
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-012

Client Sample ID: 162-A
Collection Date: 8/30/2005 2:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.026		mg/Kg-dry	1	9/7/2005
Acenaphthylene	ND	0.026		mg/Kg-dry	1	9/7/2005
Anthracene	ND	0.026		mg/Kg-dry	1	9/7/2005
Benz(a)anthracene	ND	0.026		mg/Kg-dry	1	9/7/2005
Benzo(a)pyrene	ND	0.026		mg/Kg-dry	1	9/7/2005
Benzo(b)fluoranthene	ND	0.026		mg/Kg-dry	1	9/7/2005
Benzo(g,h,i)perylene	ND	0.026		mg/Kg-dry	1	9/7/2005
Benzo(k)fluoranthene	ND	0.026		mg/Kg-dry	1	9/7/2005
Chrysene	ND	0.026		mg/Kg-dry	1	9/7/2005
Dibenz(a,h)anthracene	ND	0.026		mg/Kg-dry	1	9/7/2005
Fluoranthene	0.043	0.026		mg/Kg-dry	1	9/7/2005
Fluorene	ND	0.026		mg/Kg-dry	1	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.026		mg/Kg-dry	1	9/7/2005
Naphthalene	ND	0.026		mg/Kg-dry	1	9/7/2005
Phenanthrene	ND	0.026		mg/Kg-dry	1	9/7/2005
Pyrene	0.033	0.026		mg/Kg-dry	1	9/7/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Benzene	ND	0.0052		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0052		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.0052		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.016		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	5.89	0.01	*	wt%	1	9/7/2005

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-013

Client Sample ID: 162-B
Collection Date: 8/31/2005 2:50:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.038		mg/Kg-dry	10	9/7/2005
Acenaphthylene	ND	0.038		mg/Kg-dry	10	9/7/2005
Anthracene	0.05	0.038		mg/Kg-dry	10	9/7/2005
Benz(a)anthracene	0.15	0.038		mg/Kg-dry	10	9/7/2005
Benzo(a)pyrene	0.16	0.038		mg/Kg-dry	10	9/7/2005
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	10	9/7/2005
Benzo(g,h,i)perylene	0.13	0.038		mg/Kg-dry	10	9/7/2005
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	10	9/7/2005
Chrysene	0.1	0.038		mg/Kg-dry	10	9/7/2005
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	10	9/7/2005
Fluoranthene	0.31	0.038		mg/Kg-dry	10	9/7/2005
Fluorene	ND	0.038		mg/Kg-dry	10	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	10	9/7/2005
Naphthalene	ND	0.038		mg/Kg-dry	10	9/7/2005
Phenanthrene	0.23	0.038		mg/Kg-dry	10	9/7/2005
Pyrene	0.25	0.038		mg/Kg-dry	10	9/7/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Benzene	ND	0.0047		mg/Kg-dry	1	9/5/2005
Toluene	ND	0.0047		mg/Kg-dry	1	9/5/2005
Ethylbenzene	ND	0.0047		mg/Kg-dry	1	9/5/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/5/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	14.8	0.01	*	wt%	1	9/7/2005

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H - Holding time exceeded

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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-014

Client Sample ID: 162-C
Collection Date: 8/31/2005 3:30:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.031		mg/Kg-dry	1	9/7/2005
Acenaphthylene	ND	0.031		mg/Kg-dry	1	9/7/2005
Anthracene	0.045	0.031		mg/Kg-dry	1	9/7/2005
Benz(a)anthracene	0.046	0.031		mg/Kg-dry	1	9/7/2005
Benzo(a)pyrene	ND	0.031		mg/Kg-dry	1	9/7/2005
Benzo(b)fluoranthene	0.048	0.031		mg/Kg-dry	1	9/7/2005
Benzo(g,h,i)perylene	ND	0.031		mg/Kg-dry	1	9/7/2005
Benzo(k)fluoranthene	ND	0.031		mg/Kg-dry	1	9/7/2005
Chrysene	0.064	0.031		mg/Kg-dry	1	9/7/2005
Dibenz(a,h)anthracene	ND	0.031		mg/Kg-dry	1	9/7/2005
Fluoranthene	0.1	0.031		mg/Kg-dry	1	9/7/2005
Fluorene	ND	0.031		mg/Kg-dry	1	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.031		mg/Kg-dry	1	9/7/2005
Naphthalene	ND	0.031		mg/Kg-dry	1	9/7/2005
Phenanthrene	0.12	0.031		mg/Kg-dry	1	9/7/2005
Pyrene	0.1	0.031		mg/Kg-dry	1	9/7/2005
BTEX by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Benzene	ND	0.0058		mg/Kg-dry	1	9/6/2005
Toluene	ND	0.0058		mg/Kg-dry	1	9/6/2005
Ethylbenzene	ND	0.0058		mg/Kg-dry	1	9/6/2005
Xylenes, Total	ND	0.018		mg/Kg-dry	1	9/6/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	20.2	0.01	*	wt%	1	9/7/2005

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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-015

Client Sample ID: LF7-A
Collection Date: 8/30/2005 4:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/2/2005**		Analyst: **JG**
Lead	11	0.53		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.036		mg/Kg-dry	10	9/7/2005
Acenaphthylene	ND	0.036		mg/Kg-dry	10	9/7/2005
Anthracene	ND	0.036		mg/Kg-dry	10	9/7/2005
Benz(a)anthracene	ND	0.036		mg/Kg-dry	10	9/7/2005
Benzo(a)pyrene	ND	0.036		mg/Kg-dry	10	9/7/2005
Benzo(b)fluoranthene	ND	0.036		mg/Kg-dry	10	9/7/2005
Benzo(g,h,i)perylene	ND	0.036		mg/Kg-dry	10	9/7/2005
Benzo(k)fluoranthene	ND	0.036		mg/Kg-dry	10	9/7/2005
Chrysene	ND	0.036		mg/Kg-dry	10	9/7/2005
Dibenz(a,h)anthracene	ND	0.036		mg/Kg-dry	10	9/7/2005
Fluoranthene	ND	0.036		mg/Kg-dry	10	9/7/2005
Fluorene	ND	0.036		mg/Kg-dry	10	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.036		mg/Kg-dry	10	9/7/2005
Naphthalene	ND	0.036		mg/Kg-dry	10	9/7/2005
Phenanthrene	0.043	0.036		mg/Kg-dry	10	9/7/2005
Pyrene	ND	0.036		mg/Kg-dry	10	9/7/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Acetone	ND	0.043		mg/Kg-dry	1	9/6/2005
Benzene	ND	0.0043		mg/Kg-dry	1	9/6/2005
Bromodichloromethane	ND	0.0043		mg/Kg-dry	1	9/6/2005
Bromoform	ND	0.0043		mg/Kg-dry	1	9/6/2005
Bromomethane	ND	0.0085		mg/Kg-dry	1	9/6/2005
2-Butanone	ND	0.0085		mg/Kg-dry	1	9/6/2005
Carbon disulfide	ND	0.0043		mg/Kg-dry	1	9/6/2005
Carbon tetrachloride	ND	0.0043		mg/Kg-dry	1	9/6/2005
Chlorobenzene	ND	0.0043		mg/Kg-dry	1	9/6/2005
Dibromochloromethane	ND	0.0043		mg/Kg-dry	1	9/6/2005
Chloroethane	ND	0.0085		mg/Kg-dry	1	9/6/2005
Chloroform	ND	0.0043		mg/Kg-dry	1	9/6/2005
Chloromethane	ND	0.0085		mg/Kg-dry	1	9/6/2005
1,1-Dichloroethane	ND	0.0043		mg/Kg-dry	1	9/6/2005
1,2-Dichloroethane	ND	0.0043		mg/Kg-dry	1	9/6/2005
1,1-Dichloroethene	ND	0.0043		mg/Kg-dry	1	9/6/2005
cis-1,2-Dichloroethene	ND	0.0043		mg/Kg-dry	1	9/6/2005
trans-1,2-Dichloroethene	ND	0.0043		mg/Kg-dry	1	9/6/2005

Qualifiers:
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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-015

Client Sample ID: LF7-A
Collection Date: 8/30/2005 4:20:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
1,2-Dichloropropane	ND	0.0043		mg/Kg-dry	1	9/6/2005
cis-1,3-Dichloropropene	ND	0.0043		mg/Kg-dry	1	9/6/2005
trans-1,3-Dichloropropene	ND	0.0043		mg/Kg-dry	1	9/6/2005
Ethylbenzene	ND	0.0043		mg/Kg-dry	1	9/6/2005
2-Hexanone	ND	0.0085		mg/Kg-dry	1	9/6/2005
4-Methyl-2-pentanone	ND	0.0085		mg/Kg-dry	1	9/6/2005
Methylene chloride	ND	0.0085		mg/Kg-dry	1	9/6/2005
Methyl tert-butyl ether	ND	0.0043		mg/Kg-dry	1	9/6/2005
Styrene	ND	0.0043		mg/Kg-dry	1	9/6/2005
1,1,2,2-Tetrachloroethane	ND	0.0043		mg/Kg-dry	1	9/6/2005
Tetrachloroethene	ND	0.0043		mg/Kg-dry	1	9/6/2005
Toluene	ND	0.0043		mg/Kg-dry	1	9/6/2005
1,1,1-Trichloroethane	ND	0.0043		mg/Kg-dry	1	9/6/2005
1,1,2-Trichloroethane	ND	0.0043		mg/Kg-dry	1	9/6/2005
Trichloroethene	ND	0.0043		mg/Kg-dry	1	9/6/2005
Vinyl chloride	ND	0.0043		mg/Kg-dry	1	9/6/2005
Xylenes, Total	ND	0.013		mg/Kg-dry	1	9/6/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	8.68	0.01	*	wt%	1	9/7/2005

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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-016

Client Sample ID: LF7-A-1
Collection Date: 8/30/2005 4:40:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/2/2005**		Analyst: **JG**
Lead	1400	0.62		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	1.2	0.042		mg/Kg-dry	10	9/7/2005
Acenaphthylene	0.14	0.042		mg/Kg-dry	10	9/7/2005
Anthracene	5.2	0.42		mg/Kg-dry	100	9/7/2005
Benz(a)anthracene	15	0.42		mg/Kg-dry	100	9/7/2005
Benzo(a)pyrene	11	0.42		mg/Kg-dry	100	9/7/2005
Benzo(b)fluoranthene	12	0.42		mg/Kg-dry	100	9/7/2005
Benzo(g,h,i)perylene	5.7	0.42		mg/Kg-dry	100	9/7/2005
Benzo(k)fluoranthene	6.3	0.42		mg/Kg-dry	100	9/7/2005
Chrysene	11	0.42		mg/Kg-dry	100	9/7/2005
Dibenz(a,h)anthracene	1.4	0.042		mg/Kg-dry	10	9/7/2005
Fluoranthene	32	0.42		mg/Kg-dry	100	9/7/2005
Fluorene	1.9	0.042		mg/Kg-dry	10	9/7/2005
Indeno(1,2,3-cd)pyrene	5.2	0.42		mg/Kg-dry	100	9/7/2005
Naphthalene	0.96	0.042		mg/Kg-dry	10	9/7/2005
Phenanthrene	21	0.42		mg/Kg-dry	100	9/7/2005
Pyrene	24	0.42		mg/Kg-dry	100	9/7/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Acetone	0.07	0.063		mg/Kg-dry	1	9/6/2005
Benzene	0.014	0.0063		mg/Kg-dry	1	9/6/2005
Bromodichloromethane	ND	0.0063		mg/Kg-dry	1	9/6/2005
Bromoform	ND	0.0063		mg/Kg-dry	1	9/6/2005
Bromomethane	ND	0.013		mg/Kg-dry	1	9/6/2005
2-Butanone	ND	0.013		mg/Kg-dry	1	9/6/2005
Carbon disulfide	ND	0.0063		mg/Kg-dry	1	9/6/2005
Carbon tetrachloride	ND	0.0063		mg/Kg-dry	1	9/6/2005
Chlorobenzene	ND	0.0063		mg/Kg-dry	1	9/6/2005
Dibromochloromethane	ND	0.0063		mg/Kg-dry	1	9/6/2005
Chloroethane	ND	0.013		mg/Kg-dry	1	9/6/2005
Chloroform	ND	0.0063		mg/Kg-dry	1	9/6/2005
Chloromethane	ND	0.013		mg/Kg-dry	1	9/6/2005
1,1-Dichloroethane	ND	0.0063		mg/Kg-dry	1	9/6/2005
1,2-Dichloroethane	ND	0.0063		mg/Kg-dry	1	9/6/2005
1,1-Dichloroethene	ND	0.0063		mg/Kg-dry	1	9/6/2005
cis-1,2-Dichloroethene	2.6	0.39		mg/Kg-dry	50	9/6/2005
trans-1,2-Dichloroethene	0.011	0.0063		mg/Kg-dry	1	9/6/2005

Qualifiers:
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HT - Sample received past holding time
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Date Reported: September 09, 2005
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Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-016

Client Sample ID: LF7-A-1
Collection Date: 8/30/2005 4:40:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
1,2-Dichloropropane	ND	0.0063		mg/Kg-dry	1	9/6/2005
cis-1,3-Dichloropropene	ND	0.0063		mg/Kg-dry	1	9/6/2005
trans-1,3-Dichloropropene	ND	0.0063		mg/Kg-dry	1	9/6/2005
Ethylbenzene	ND	0.0063		mg/Kg-dry	1	9/6/2005
2-Hexanone	ND	0.013		mg/Kg-dry	1	9/6/2005
4-Methyl-2-pentanone	ND	0.013		mg/Kg-dry	1	9/6/2005
Methylene chloride	ND	0.013		mg/Kg-dry	1	9/6/2005
Methyl tert-butyl ether	ND	0.0063		mg/Kg-dry	1	9/6/2005
Styrene	ND	0.0063		mg/Kg-dry	1	9/6/2005
1,1,2,2-Tetrachloroethane	ND	0.0063		mg/Kg-dry	1	9/6/2005
Tetrachloroethene	ND	0.0063		mg/Kg-dry	1	9/6/2005
Toluene	ND	0.0063		mg/Kg-dry	1	9/6/2005
1,1,1-Trichloroethane	ND	0.0063		mg/Kg-dry	1	9/6/2005
1,1,2-Trichloroethane	ND	0.0063		mg/Kg-dry	1	9/6/2005
Trichloroethene	6.9	0.39		mg/Kg-dry	50	9/6/2005
Vinyl chloride	ND	0.0063		mg/Kg-dry	1	9/6/2005
Xylenes, Total	ND	0.018		mg/Kg-dry	1	9/6/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	24.3	0.01	*	wt%	1	9/7/2005

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STAT Analysis Corporation
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 10248; NVLAP LabCode 101202-0

Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-017

Client Sample ID: LF7-B
Collection Date: 8/30/2005 5:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/2/2005**		Analyst: **JG**
Lead	20	0.57		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.029		mg/Kg-dry	1	9/7/2005
Acenaphthylene	ND	0.029		mg/Kg-dry	1	9/7/2005
Anthracene	ND	0.029		mg/Kg-dry	1	9/7/2005
Benz(a)anthracene	ND	0.029		mg/Kg-dry	1	9/7/2005
Benzo(a)pyrene	ND	0.029		mg/Kg-dry	1	9/7/2005
Benzo(b)fluoranthene	ND	0.029		mg/Kg-dry	1	9/7/2005
Benzo(g,h,i)perylene	ND	0.029		mg/Kg-dry	1	9/7/2005
Benzo(k)fluoranthene	ND	0.029		mg/Kg-dry	1	9/7/2005
Chrysene	ND	0.029		mg/Kg-dry	1	9/7/2005
Dibenz(a,h)anthracene	ND	0.029		mg/Kg-dry	1	9/7/2005
Fluoranthene	ND	0.029		mg/Kg-dry	1	9/7/2005
Fluorene	ND	0.029		mg/Kg-dry	1	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.029		mg/Kg-dry	1	9/7/2005
Naphthalene	ND	0.029		mg/Kg-dry	1	9/7/2005
Phenanthrene	ND	0.029		mg/Kg-dry	1	9/7/2005
Pyrene	ND	0.029		mg/Kg-dry	1	9/7/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Acetone	ND	0.069		mg/Kg-dry	1	9/6/2005
Benzene	ND	0.0069		mg/Kg-dry	1	9/6/2005
Bromodichloromethane	ND	0.0069		mg/Kg-dry	1	9/6/2005
Bromoform	ND	0.0069		mg/Kg-dry	1	9/6/2005
Bromomethane	ND	0.014		mg/Kg-dry	1	9/6/2005
2-Butanone	ND	0.014		mg/Kg-dry	1	9/6/2005
Carbon disulfide	ND	0.0069		mg/Kg-dry	1	9/6/2005
Carbon tetrachloride	ND	0.0069		mg/Kg-dry	1	9/6/2005
Chlorobenzene	ND	0.0069		mg/Kg-dry	1	9/6/2005
Dibromochloromethane	ND	0.0069		mg/Kg-dry	1	9/6/2005
Chloroethane	ND	0.014		mg/Kg-dry	1	9/6/2005
Chloroform	ND	0.0069		mg/Kg-dry	1	9/6/2005
Chloromethane	ND	0.014		mg/Kg-dry	1	9/6/2005
1,1-Dichloroethane	ND	0.0069		mg/Kg-dry	1	9/6/2005
1,2-Dichloroethane	ND	0.0069		mg/Kg-dry	1	9/6/2005
1,1-Dichloroethene	ND	0.0069		mg/Kg-dry	1	9/6/2005
cis-1,2-Dichloroethene	ND	0.0069		mg/Kg-dry	1	9/6/2005
trans-1,2-Dichloroethene	ND	0.0069		mg/Kg-dry	1	9/6/2005

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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-017

Client Sample ID: LF7-B
Collection Date: 8/30/2005 5:00:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
1,2-Dichloropropane	ND	0.0069		mg/Kg-dry	1	9/6/2005
cis-1,3-Dichloropropene	ND	0.0069		mg/Kg-dry	1	9/6/2005
trans-1,3-Dichloropropene	ND	0.0069		mg/Kg-dry	1	9/6/2005
Ethylbenzene	ND	0.0069		mg/Kg-dry	1	9/6/2005
2-Hexanone	ND	0.014		mg/Kg-dry	1	9/6/2005
4-Methyl-2-pentanone	ND	0.014		mg/Kg-dry	1	9/6/2005
Methylene chloride	ND	0.014		mg/Kg-dry	1	9/6/2005
Methyl tert-butyl ether	ND	0.0069		mg/Kg-dry	1	9/6/2005
Styrene	ND	0.0069		mg/Kg-dry	1	9/6/2005
1,1,2,2-Tetrachloroethane	ND	0.0069		mg/Kg-dry	1	9/6/2005
Tetrachloroethene	ND	0.0069		mg/Kg-dry	1	9/6/2005
Toluene	ND	0.0069		mg/Kg-dry	1	9/6/2005
1,1,1-Trichloroethane	ND	0.0069		mg/Kg-dry	1	9/6/2005
1,1,2-Trichloroethane	ND	0.0069		mg/Kg-dry	1	9/6/2005
Trichloroethene	ND	0.0069		mg/Kg-dry	1	9/6/2005
Vinyl chloride	ND	0.0069		mg/Kg-dry	1	9/6/2005
Xylenes, Total	ND	0.021		mg/Kg-dry	1	9/6/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	13.9	0.01	*	wt%	1	9/7/2005

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Date Reported: September 09, 2005
Date Printed: September 13, 2005

Client: MACTEC Engineering and Consulting, Inc.
Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-018

Client Sample ID: LF7-B-1
Collection Date: 8/30/2005 5:10:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS	**SW6020 (SW3050B)**			Prep Date: **9/2/2005**		Analyst: **JG**
Lead	14	0.56		mg/Kg-dry	10	9/2/2005
Polynuclear Aromatic Hydrocarbons	**SW8270C-SIM (SW3550B)**			Prep Date: **9/6/2005**		Analyst: **VS**
Acenaphthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Acenaphthylene	ND	0.028		mg/Kg-dry	1	9/7/2005
Anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benz(a)anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(a)pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(b)fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(g,h,i)perylene	ND	0.028		mg/Kg-dry	1	9/7/2005
Benzo(k)fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Chrysene	ND	0.028		mg/Kg-dry	1	9/7/2005
Dibenz(a,h)anthracene	ND	0.028		mg/Kg-dry	1	9/7/2005
Fluoranthene	ND	0.028		mg/Kg-dry	1	9/7/2005
Fluorene	ND	0.028		mg/Kg-dry	1	9/7/2005
Indeno(1,2,3-cd)pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Naphthalene	ND	0.028		mg/Kg-dry	1	9/7/2005
Phenanthrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Pyrene	ND	0.028		mg/Kg-dry	1	9/7/2005
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
Acetone	ND	0.044		mg/Kg-dry	1	9/6/2005
Benzene	ND	0.0044		mg/Kg-dry	1	9/6/2005
Bromodichloromethane	ND	0.0044		mg/Kg-dry	1	9/6/2005
Bromoform	ND	0.0044		mg/Kg-dry	1	9/6/2005
Bromomethane	ND	0.0088		mg/Kg-dry	1	9/6/2005
2-Butanone	ND	0.0088		mg/Kg-dry	1	9/6/2005
Carbon disulfide	ND	0.0044		mg/Kg-dry	1	9/6/2005
Carbon tetrachloride	ND	0.0044		mg/Kg-dry	1	9/6/2005
Chlorobenzene	ND	0.0044		mg/Kg-dry	1	9/6/2005
Dibromochloromethane	ND	0.0044		mg/Kg-dry	1	9/6/2005
Chloroethane	ND	0.0088		mg/Kg-dry	1	9/6/2005
Chloroform	ND	0.0044		mg/Kg-dry	1	9/6/2005
Chloromethane	ND	0.0088		mg/Kg-dry	1	9/6/2005
1,1-Dichloroethane	ND	0.0044		mg/Kg-dry	1	9/6/2005
1,2-Dichloroethane	ND	0.0044		mg/Kg-dry	1	9/6/2005
1,1-Dichloroethene	ND	0.0044		mg/Kg-dry	1	9/6/2005
cis-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	9/6/2005
trans-1,2-Dichloroethene	ND	0.0044		mg/Kg-dry	1	9/6/2005

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Lab Order: 05081159
Project: 3205-05-0441.03, NAVFAC- Ft. Sheridan
Lab ID: 05081159-018

Client Sample ID: LF7-B-1
Collection Date: 8/30/2005 5:10:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW5035/8260B**			Prep Date: **9/1/2005**		Analyst: **PS**
1,2-Dichloropropane	ND	0.0044		mg/Kg-dry	1	9/6/2005
cis-1,3-Dichloropropene	ND	0.0044		mg/Kg-dry	1	9/6/2005
trans-1,3-Dichloropropene	ND	0.0044		mg/Kg-dry	1	9/6/2005
Ethylbenzene	ND	0.0044		mg/Kg-dry	1	9/6/2005
2-Hexanone	ND	0.0088		mg/Kg-dry	1	9/6/2005
4-Methyl-2-pentanone	ND	0.0088		mg/Kg-dry	1	9/6/2005
Methylene chloride	ND	0.0088		mg/Kg-dry	1	9/6/2005
Methyl tert-butyl ether	ND	0.0044		mg/Kg-dry	1	9/6/2005
Styrene	ND	0.0044		mg/Kg-dry	1	9/6/2005
1,1,2,2-Tetrachloroethane	ND	0.0044		mg/Kg-dry	1	9/6/2005
Tetrachloroethene	ND	0.0044		mg/Kg-dry	1	9/6/2005
Toluene	ND	0.0044		mg/Kg-dry	1	9/6/2005
1,1,1-Trichloroethane	ND	0.0044		mg/Kg-dry	1	9/6/2005
1,1,2-Trichloroethane	ND	0.0044		mg/Kg-dry	1	9/6/2005
Trichloroethene	ND	0.0044		mg/Kg-dry	1	9/6/2005
Vinyl chloride	ND	0.0044		mg/Kg-dry	1	9/6/2005
Xylenes, Total	ND	0.014		mg/Kg-dry	1	9/6/2005
Percent Moisture	**D2974**			Prep Date: **9/6/2005**		Analyst: **RW**
Percent Moisture	11.8	0.01	*	wt%	1	9/7/2005

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CHAIN OF CUSTODY RECORD

№: 810422

Page: 1 of 1

Company: MACTEC E&C
Project Number: 3205-05-0441.03 Client Tracking No.:
Project Name: NAVFAC-Ft. Sheridan
Location/Address: Ft. Sheridan, IL
Sampler(s): Andrew Hastings
Report To: Dennis Nagy Phone: 773-673-6030
QC Level: 1 ____ 2 ____ 3 ____ 4 ____ Fax: 773-693-6039
Regulatory Program: NPEDS/MWRD RCRA SDWA SRP TACO Other: ____

P.O. No.:
Quote No.: 274

Turn Around: 1 week - Standard
Results Needed: 9/7/05 am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	VOC	SVOC	PNA	RCRA 8 Metals	Total Lead	BTEX	Remarks	Lab No.
378-AC	8/30/05	9:10	Soil		X	F	4	X	X		X				001
LF5-C		9:50				A	1			X	X				002
LF5-D		10:30				A	1			X	X				003
LF5-D-1		10:35				F	4	X		X					004
LF5-A		11:30				A	1			X	X				005
LF5-A-1		11:40				F	4	X		X					006
LF5-B		12:15				A	1			X	X				007
LF5-B-1		12:20				F	4	X		X					008
LF5-E		12:50				A	1	AH		X	X			← Just PNA & RCRA	009
LF5-F		13:30				A	1			X	X				010
LF5-F-1		13:35				F	4	X		X					011
162-A		14:20				F	4			X		X			012
162-B		14:50				F	4			X		X			013
162-C		15:30				F	4			X		X			014
LF7-A		16:20				F	4	X		X	X				015
AH ~~DEF~~ LF7-A-1		16:40				F	4	X		X	X				016
LF7-B		17:00				F	4	X		X	X				017
LF7-B-1	↓	17:10	↓		↓	F	4	X		X	X				018

Relinquished by: (Signature) Andrew E. Hastings	Date/Time: 8/30/05 21:00	Laboratory Use: Sample Verification:
Received by: (Signature) [illegible]	Date/Time: 8-31-05 7:40	Container OK Yes ☒ No ☐
Relinquished by: (Signature) [illegible]	Date/Time: 8-31-05 [illegible]	Sample Intact Yes ☒ No ☐
Received for lab by: (Signature) Jesus [illegible]	Date/Time: 8/31/05	Refrigerated (Temp: 2-5°C) Yes ☒ No ☐
Relinquished by: (Signature)	Date/Time: 1750	Sample Label Match Sample ID Yes ☒ No ☐

Work Order No.: [illegible]

Preservation Code:
A = None B = HNO_3 C = NaOH
D = H_2SO_4 E = HCl F = 5035/EnCore

STAT Analysis Corporation

Sample Receipt Checklist

Client Name MACTEC

Date and Time Received: 08/31/2005

Work Order Number 05081159

Received by: JC

Checklist completed by: Jesus Carrt (Signature) 8/31/05 (Date)

Reviewed by: CT (Initials) 9/9/05 (Date)

Matrix

Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 5 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples pH checked?	Yes ☐	No ☐	Checked by:
Water - Samples properly preserved?	Yes ☐	No ☐	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: Date contacted: Contacted by:

Response: