GEC Project No. 1676-519A

RELEASE ABATEMENT MEASURE (RAM) STATUS REPORT NO. 3
(from August 3, 2016 to December 1, 2017)
AND
RELEASE ABATEMENT MEASURE COMPLETION REPORT TO SUPPORT CONSTRUCTION ACTIVITIES
(from October 9, 2015 to December 1, 2017)

LOTS 37 AND 42
PACELLA PARK DRIVE
RANDOLPH, MASSACHUSETTS
MassDEP RTN 4-3023897
(including MassDEP RTN 4-25464 and RTN 4-25906)

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1.0 INTRODUCTION

On October 9, 2015, Goldman Environmental Consultants, Inc. (GEC), on behalf of Great Pond Residential LLC, the current owner of the property, submitted a Release Abatement Measure (RAM) Plan (Construction RAM Plan) to support construction activities at Lots 37 and 42 Pacella Park Drive in Randolph, Massachusetts. Each lot had reportable releases of oil and hazardous materials (OHM) to soils and have been assigned separate release tracking numbers (RTN): Lot 37 – RTN 4-3023897 and Lot 42 – RTN 4-25464. Great Pond Residential LLC submitted a *Phase I Initial Site Investigation, Conceptual Phase II Scope of Work and Tier Classification Submittal* (*Phase I Report*) for these two RTNs to the Massachusetts Department of Environmental Protection (MassDEP) on July 29, 2015. These two release tracking numbers are not linked at this time.

The planned construction for these two lots consisted of a residential apartment complex, consisting of five apartment buildings, a club house, a swimming pool and paved parking areas. The storm drainage system, detention basins and compensatory storage areas were constructed to service the apartment complex and Pacella Park Drive.

The Construction RAM Plan was conducted to support construction activities entailing the following: (1) the excavation and processing of Site soils to increase structural strength of the soils prior to constructing the buildings of the multi-family residential apartment complex; (2) construction of a stormwater drainage system, detention basins and compensatory storage areas; and (3) excavation of contaminated soils for re-use at depths more than 15 feet below final grade. The Construction RAM Plan was prepared in accordance with 310 CMR 40.0444. The person who assumed responsibility for conducting the Construction RAM is Great Pond Residential LLC [Attention: Andrew Dolben, Manager], c/o The Dolben Company, Inc., located at 150 Presidential Way, Suite 220, in Woburn, MA, 01801.

On December 14, 2015, a RAM Plan Modification was submitted for the Construction RAM. This modification provided information on the planned on-site re-use of crushed asphalt pieces as base material beneath future paved areas; and the planned off-site transport of up to 100 cubic yards of odorous soils identified as PL-1 (Parking Lot Area 1) or RGP-2 (Residences at Great Pond Area 2). On December 15, 2015, a BWSC-103 Release Notification Form was submitted to MassDEP, informing them of the discovery of C9-C10 aromatic hydrocarbons and 2-methylnaphthalene, associated with a suspected old, gasoline release at the Site. This new reportable condition was assigned RTN 4-25906. On December 17, 2015, a second RAM Plan Modification was submitted for the Construction RAM. This second modification provided information on the planned off-site transport of between 600 and 1,000 cubic yards of old, gasoline contaminated soils identified as RGP-8 and associated with RTN 4-25906. Both RGP-2 and RGP-8 are located on Lot 37.

On February 18, 2016, the third RAM Plan Modification and first Status Report were submitted for the Construction RAM. The third modification allowed for either: (1) the use of Site-specific clean-up standards; or (2) the calculation of location-specific risk estimates using MassDEP's Resident ShortForm or GEC's residential risk assessment workbook. The first Status Report included the following construction activities: (1) preparation of Site for construction activities; (2) start the installation of the stormwater detention basins and system; (3) soil excavation, processing and re-use of soils; (4) de-watering of excavations as needed; (5) ambient air monitoring; and (6) excavation of specific contaminated areas with off-site transport of contaminated soils or on-Site reuse at depth.

On November 28, 2016, the second RAM Plan Status Report was submitted for the Construction RAM. This report documented activities conducted between February 18, 2016 and August 3, 2016. The second Status Report included the following construction activities: (1) excavation, processing, re-use, and placement of soils; (2) excavation of specific contaminated areas with off-site transport of contaminated soils, on-Site treatment of soils, or on-Site reuse of soils at depth; (3) de-watering of excavations as needed; (4) soil and groundwater sampling of specific

contaminated areas; (5) continued installation of the stormwater detention basins and system; (6) soil tailings placement for fertilization; and (7) ambient air monitoring.

The Construction RAM is being conducted for three RTNs (i.e., RTN 4-3023897, 4-25464 and 4-25906). The Construction RAM Plan was conducted concurrent with a separate Remediation RAM Plan, which was intended to remediate contaminated soils that are contaminated with lead, polychlorinated biphenyls (PCBs) or coal tar. The RAM Completion Report for the Remediation RAM was submitted on September 19, 2017. To provide context, Construction RAM report will also discuss some of the activities conducted as part of the Remediation RAM. The Construction RAM documents are submitted to RTN 4-3023897.

The ultimate goal of the RAM is to achieve a condition of No Significant Risk of harm for the Site, such that a Permanent Solution with Conditions can be achieved. The Conditions attached to the Permanent Solution will include the following: (1) a statement that background conditions for some hazardous materials are consistent with Anthropogenic Background from fill placed on-Site prior to 1983; (2) gardening of edible produce is assumed controlled by Best Management Practices; and (3) if needed, a Notice of Activity and Use Limitation (AUL) will be recorded or registered requiring the maintenance of certain protective barriers or marker barriers, however the goal is to remediate the Site such that an AUL is not needed.

Provided herein is the third RAM Status Report and the RAM Completion Report for the Construction RAM. The RAM Status Report portion of this document covers work conducted during the period from August 3, 2016 to December 1, 2017. This Construction RAM Status Report and RAM Completion Report is prepared in accordance with the Massachusetts Contingency Plan (MCP) [310 CMR 40.0445 and 40.0446].

The Site Locus and Site Assessment Map are provided as Figures 1 and 2, respectively. The Site Plan, showing exposure point (EP) locations prior to initiating the Construction RAM, is provided as Figure 3A. Refer to the Construction RAM Plan for additional background information, site conditions, surrounding receptors and release descriptions.

2.0 SITE CONDITIONS, SURROUNDING RECEPTORS AND RELEASE DESCRIPTIONS

The subject property is located at the northern end of Pacella Park Drive, within the Great Pond Commerce Center in Randolph, Norfolk County, Massachusetts, at latitude 42.20580 N and longitude 71.05128 W. The subject property is comprised of three lots identified as Lot 37 (4.47 acres) on Norfolk County Land Court Plan Number 34183Q, dated February 16, 1984, and Lot 42 (8.9 acres) on Norfolk County Land Court Plan Number 34183T. Lot 44 (0.959 acres) was originally part of a larger abutting lot. Lot 44 is identified on Norfolk County Land Court Plan Number 34183U. Combined, Lots 37, 42 and 44 are approximately 13.97 acres. Prior to 1978, the property was used to place bedrock debris from the development of Great Pond Commerce Park, and demolition debris and urban soils from the construction of the Orange Line (part of the MBTA's subway system) and a Roxbury mill.

On May 21, 2004, the presence of lead, certain polycyclic aromatic hydrocarbons (PAHs) and extractable petroleum hydrocarbons (EPH) subset(s) in soils of Lot 37 at levels exceeding soil Reportable Concentrations was reported to the MassDEP and assigned RTN 4-3023897. A Notice of AUL and Class B-2 Response Action Outcome (RAO) Statement were registered and submitted, respectively, for RTN 4-3023897, respectively, in 2004. Recently, the AUL was terminated and the Class B-2 RAO was retracted. On January 30, 2015, the presence of lead, other metals, PAHs, EPH subsets, coal tar and PCBs in soils of Lot 42 were reported to MassDEP and assigned RTN 4-25464.

The fill, containing PCB-contaminated soils, was placed on Lot 42 prior to the effective date of the Toxic Substances Control Act (TSCA) plus no soil sample contained PCB concentrations equal

to or greater than 50 mg/kg. Therefore, TSCA does not apply to this release. For information on the TSCA issue and the history of filling on Lots 37 and 42, refer to the *Release Abatement Measure (RAM) Plan to Support Remediation Activities*; Sections 4.1, 5.3 and 6.1 of *Supporting Investigation Report*, provided as Appendix A in the *Phase I Initial Site Investigation Report*; and Section 4.2 of the Soil Management Plan, provided in Appendix D, of the *Remediation RAM Plan*.

The fill on both lots was placed prior to 1978 and largely contains demolition debris; therefore, the site conditions were evaluated to determine if any portion of the property has OHM at levels consistent with Anthropogenic Background, as defined in the MCP. At the time the RAM Plan was prepared, MassDEP had not yet issued guidance on determining Anthropogenic Background conditions. In the interim, the MassDEP recommended using MassDEP's *Technical Update: Background Concentrations of Polycyclic Aromatic Hydrocarbons and Metals in Soils*, which provides background concentrations for urban soils based largely on soil data from the Central Artery Tunnel (CA/T) project. Levels of metals and PAHs within nine separate areas of the two lots were evaluated to determine which OHM were present at levels consistent with Anthropogenic Background conditions. No area of the two lots was determined to have all OHM at levels consistent with Anthropogenic Background; however, certain metals and / or certain PAHs were determined to be present at levels consistent with Anthropogenic Background conditions in one or more of the nine separate areas of the two lots. Refer to Sections 6.4 and 6.5 of *Supporting Investigation Report*, provided as Appendix A in the *Phase I Report*, in the *Release Abatement Measure (RAM) Plan to Support Remediation Activities* for additional information.

Construction workers are currently developing the property. Lots 37 and 42 are being developed with five residential apartment buildings, a club house and swimming pool. The development is nearing completion. The development of the property has progressed to the point where residents are beginning to lease the apartments in Building 4, located on Lot 37. Therefore, residents are residing or will reside on the property in the near future. Utility lines exist on the property. Therefore, utility workers could be present now during repair or maintenance work, and could be present in the future. Land use in the vicinity of the Site is commercial and residential. The closest residential properties abut Lot 42 on the west side. The subject property is located in the northeast corner of the Town of Randolph and abuts the City of Quincy and the Town of Braintree. Within portions of both municipalities within one-half mile of the subject property are located wetlands, open spaces and surface water features. No residents of Quincy or Braintree are located within one-half mile of the subject property.

According to 314 CMR 4.06 Figure 15, the West Farm River (also known as the Blue Hill River) and the Farm River are Class B Surface Waters. According to Table 15 of 314 CMR 4.06, the Great Pond and tributaries thereto, the Upper Reservoir of the Great Pond and tributaries thereto, and the Richardi Reservoir and tributaries thereto are Class A Surface Waters / Public Water Supplies. Based on the MassDEP Phase I Site Assessment Map (Figure 2), a Zone A is associated with the Blue Hill River, which is inconsistent with its Class B Surface Water classification in Figure 15 of 314 CMR 4.06 but is consistent with its status as a tributary to the Richard Reservoir. The Zone A extends 200 feet from the Blue Hill River and includes a large portion of the subject property. Refer to Figure 2 for the approximate boundary of the Zone A (likely the same as the 200-foot riverfront boundary) across the Site. The closest portion of the Great Pond Reservoir's Zone A is located less than 1,000 feet east-southeast of the subject property.

For additional information on surrounding receptors, refer to Sections 2.2 and 2.3 of the *Supporting Investigation Report*, provided as Appendix A of the *Phase I Report* in the *Release Abatement Measure (RAM) Plan to Support Remediation Activities*.

2.1 Clean-up Criteria

Site-specific clean-up standards for specific OHM in soils were developed for the Remediation RAM Plan and adopted for use during the Construction RAM. The development of the Site-specific clean-up standards is documented in the Remediation RAM Plan. The baseline risk assessments for future residents and construction/utility workers were used to develop clean-up criteria for key risk drivers (e.g., PAHs and the C11-C22 aromatic hydrocarbon subset of EPH) and/or were based on MassDEP's published background concentration (e.g., for lead) for soils associated with fill containing coal ash or wood ash. For leachable lead (e.g., TCLP lead), the clean-up criterion is the RCRA TCLP lead criterion.

The TCLP lead criterion is used to determine what soils need to be treated to reduce the potential of leaching of lead from soils. The total lead and carcinogenic PAH criteria are used to determine what specific volumes of soils will need to be re-used in specific locations or depths during the Construction RAM. The C11-C22 aromatic hydrocarbon and light weight PAH criteria are used to determine what soil volumes must be transported off-site for treatment or recycling. The original clean-up criteria for each OHM and how it is applied are summarized in the table below.

OHM	Clean-up Criterion	Application of Criterion	Affected Remediation Area
Total Lead	600 mg/kg	Every soil sample or applicable soil volume	Lot 37 EP1 Lot 42 EP2B
TCLP Lead	5 mg/l	Every soil sample or applicable soil volume	Lot 37 EP1 Lot 42 EP2B
C11-C22 Aromatic Hydrocarbons	3,000 mg/kg	Every soil sample or applicable soil volume	Lot 42 EP3A and EP3C ***
2-Methylnaphthalene*	300 mg/kg	Every soil sample or applicable soil volume	Lot 42 EP3A and EP3C***
Naphthalene*	300 mg/kg	Every soil sample or applicable soil volume	Lot 42 EP3A and EP3C***
Phenanthrene*	300 mg/kg	Every soil sample or applicable soil volume	Lot 42 EP3A and EP3C***
Benzo(a)anthracene**	9 mg/kg	Mean concentration of sidewall and bottom samples	Lot 42 EP3A and EP3C***
Benzo(a)pyrene**	2 mg/kg	Mean concentration of sidewall and bottom samples	Lot 42 EP3A and EP3C***
Benzo(b)fluoranthene**	9 mg/kg	Mean concentration of sidewall and bottom samples	Lot 42 EP3A and EP3C***
Benzo(k)fluoranthene**	9 mg/kg	Mean concentration of sidewall and bottom samples	Lot 42 EP3A and EP3C***
Chrysene**	9 mg/kg	Mean concentration of sidewall and bottom samples	Lot 42 EP3A and EP3C***
Dibenzo(a,h)anthracene**	2 mg/kg	Mean concentration of sidewall and bottom samples	Lot 42 EP3A and EP3C***
Indeno(1,2,3-c,d)pyrene**	9 mg/kg	Mean concentration of sidewall and bottom samples	Lot 42 EP3A and EP3C***

* Light molecular weight PAH
** Carcinogenic PAH
*** Applies to Lot 42 EP3A and Lot 42 EP3C and any other location where staining or elevated PAH/EPH are observed in soils.

Due to the elevated levels of certain carcinogenic PAHs (most notably benzo(a)pyrene) detected in soils, large volumes of the soils had levels of PAHs above the specified clean-up standards. An alternative approach, therefore, is used to document when PAH levels in soils are low enough to result in No Significant Risk of harm to future residents. Separate risk assessments are calculated using sidewall and bottom samples from separate excavation areas to determine if risk estimates for future residents is below the MCP's cancer and non-cancer risk limits, specified at 310 CMR 40.0993(6). Refer to Section 4.0 (RAM Plan Modification No. 3 for the Construction RAM) for further details.

2.2 RAM Objectives

The objectives of the Construction RAM Plan are two-fold:

(1) To construct a storm drainage system, detention basins and compensatory storage to service both the residential apartment complex and Pacella Park Road and to process the fill material to make it of sufficient geotechnical strength to allow Site development. The fill material will be excavated following one or more of the following scenarios:

a. from ground surface to the bottom of the fill layer (if de-watering is feasible and costs aren't prohibitive to excavate all the fill material);

b. from ground surface to the bottom of the fill layer or to the top of the water table, whichever occurs first, in the areas where buildings will be constructed, so that soils can be processed to improve geotechnical strength of soils beneath the buildings plus from ground surface to six feet below grade, in areas where pavement will be installed, so that soils can be processed to improve geotechnical strength of soils beneath the buildings and pavement (most likely); and / or

c. from ground surface to whatever depth is necessary in order to find sufficient storage below 6 or 15 feet (as appropriate) to place contaminated soils of Objective no. 2.

Once excavated, the excavated fill will be processed (processed soils) by removing boulders, bedrock blast debris and demolition material for appropriate on-Site re-use, off-Site recycling and off-Site disposal. Some material recovered from the excavate, i.e., boulders, bedrock blast debris and unstained/unpainted concrete, will be broken up for use as rip rap along the detention basins and slopes of the fill leading to the Blue Hill River and / or will be crushed (crushed rock) and added to the processed soils to improve its geotechnical strength. Any excess boulders, bedrock blast debris and unstained/unpainted concrete will be transported off-Site for re-use. Finally, the excavations will be backfilled in lifts with compaction between lifts until final grade is reached, as approved by the Randolph Conservation Commission. Building footings and foundations will be constructed after the backfilling stage of construction.

(2) To track certain soil volumes from excavation, through processing to on-Site re-use at specified depths and locations. The purpose of this objective is to ensure the achievement of No Significant Risk of harm to human receptors for certain volumes of soils by placing more than 15 feet below new final grade (for no need of a Notice of AUL) or by placing more than 6 feet below new final grade (if a Notice of AUL-in some instances) will be used. The purpose of this objective is also to place the most PCB-contaminated soils at depths of either 15- or 6-feet below new final grade to minimize residential exposure. With regards to re-use requirements, each exposure point is briefly described below.

a. Exposure point Lot 37 EP1: Following treatment of lead-contaminated soils during the Remediation RAM, treated soils and other lead-contaminated soils not requiring treatment (based on confirmatory soil sampling conducted during the Remediation RAM) were segregated from other soils using polyethylene sheeting. During the Construction RAM, these segregated soils require continued tracking. These soils should be re-used at depths more than 15 feet below the new final grade, to avoid the need for a Notice of AUL. If all segregated soils can't be placed more than 15 feet below new final grade, the following activities will be conducted: (1) soils containing more than 900 mg/kg should be placed more than 15 feet below grade; and (2) soils containing 600 to 900 mg/kg lead should be placed more than 6 feet below grade, covered by a marker barrier, with maintenance of the marker barrier and soils below 6 feet through a Notice of AUL. The purpose of placing soils containing more than 900 mg/kg lead more than 15 feet below grade is to mitigate potential risks to utility workers and future construction workers. Soils containing less than and more than 900 mg/kg were segregated from each other based on confirmatory soil sampling during the Remediation RAM.

b. Exposure point Lot 37 EP2: No restrictions exist for re-use of soils from this exposure point.

c. Exposure point Lot 42 EP1A: Excavation of this exposure point is needed until natural native soils and / or bedrock are reached on the sidewalls and / or bottom of the excavation, or until PCB levels are less than clean-up standards based on confirmatory sampling of sidewalls and/or bottom. Excavated soils within EP1A will be placed in approximately 55 cubic yard stockpiles. Initial processing will remove all rock larger than 1 foot to be reused on Site, and will also include the removal of any non-soil debris. The remaining soils will be stockpiled on polyethylene sheeting and composite samples will be collected for analysis. This data will be used to determine the vertical interval where each stockpile can be re-used. The most contaminated soils will be re-used at depths more than 14 feet below new final grade at Lot 42 EP1A. Less contaminated soils will be re-used at shallower soil intervals. If possible, all soils containing PCBs should be placed 6 feet or more below grade. However, if there is not sufficient storage capacity below 6 feet, all soils placed six feet or shallower will have PCB concentrations less than 1 mg/kg. The soils containing PCB at 1 mg/kg or less can be re-used anywhere on Lot 42. If feasible, these soils should be re-used at depths more than 6 feet below grade, beneath a building foundation or beneath pavement.

d. Exposure point Lot 42 EP1B: No restrictions exist for re-use of soils from this exposure point. However, the portion of this exposure point located near Lot 42 EP1A contains PCBs at levels less than 1 mg/kg. If feasible, these soils should be re-used on Lot 42 and, if feasible more than 6 feet below the new final grade, beneath building foundation or beneath pavement.

e. Exposure point Lot 42 EP2A: No restrictions exist for re-use of soils from this exposure point.

f. Exposure point Lot 42 EP2B: Following treatment of lead-contaminated soils during the Remediation RAM, treated soils and other lead-contaminated soils not requiring treatment (based on confirmatory soil sampling conducted during the Remediation RAM) were segregated from other soils using polyethylene sheeting. During the Construction RAM, these segregated soils require continued tracking. These soils should be re-used at depths more than 15 feet below the new final grade, to avoid the need for a Notice of AUL. If all

segregated soils can't be placed more than 15 feet below new final grade, the following activities will be conducted: (1) soils containing more than 900 mg/kg should be placed more than 15 feet below grade; and (2) soils containing 600 to 900 mg/kg lead should be placed more than 6 feet below grade, covered by a marker barrier, with maintenance of the marker barrier and soils below 6 feet through a Notice of AUL. The purpose of placing soils containing more than 900 mg/kg lead more than 15 feet below grade is to mitigate potential risks to utility workers and future construction workers. Soils containing less than and more than 900 mg/kg were segregated from each other based on confirmatory soil sampling during the Remediation RAM.

g. Exposure point Lot 42 EP3A: Tracking of soils for this exposure point is only needed if the levels of EPH subsets and specific PAHs were not reduced to their clean-up standards specified in Section 2.1 (above), based on confirmatory sampling during the Remediation RAM. If clean-up standards are met during the Remedial RAM, the remaining soils of Lot 42 EP3A can be re-used anywhere on Lot 42 but if feasible more than 6 feet below the new final grade, beneath building foundation or beneath pavement.

h. Exposure point Lot 42 EP3B: Tracking of soils is needed for this exposure point only to ensure that processed soils are re-used in areas already containing PCB-contaminated soils at levels above 1 mg/kg. These soils can be re-used on Lot 42 but if feasible more than 6 feet below the new final grade, beneath building foundation or beneath pavement.

i. Exposure point Lot 42 EP3C: Tracking of soils for this exposure point is needed to ensure that soils with levels of PAHs above the clean-up standards specified in Section 2.1 (above) are re-used at depths below 15 feet of new final grade. Confirmatory sampling and analysis of PAHs will be needed during the Construction RAM. These soils can be re-used anywhere on Lot 42 at depths more than 15 feet below new final grade. If sufficient storage capacity is not available 15 feet below grade, the soils can be placed more than 6 feet below new final grade, covered by a marker barrier, with maintenance of the marker barrier and soils below 6 feet through a Notice of AUL.

NOTE: If sufficient space is not available to re-use processed soils at specified locations and depths, the soils of exposure points Lot 37 EP1 (if applicable), Lot 42 EP2B (if applicable), Lot 42 EP3A (if applicable) and/or Lot 42 EP3C may be placed beneath paved areas or building foundation, which would serve as protective barriers. The re-use of these soils beneath these protective barriers would require the recording or registering of a Notice of AUL to require maintenance of the paved area or building foundation. If soils of Lot 37 EP1 or Lot 42 EP2B will be re-used at depths shallower than 6 feet and utility lines will be located in these soils, clean utility corridor(s) will be needed if lead levels in the 0-6 foot interval exceed 900 mg/kg, to mitigate potential risk of harm to utility workers. If so, details on the construction and location of each utility corridor will be provided in the next RAM Status Report or RAM Completion Report. If this approach is used, the maintenance of the clean utility corridor(s) and protective barriers will be specified in the Notice of AUL.

Three Construction RAM Plan Modifications were submitted during the period December 2015 to March 2016, which resulted in new or modified goals to the Construction RAM. Based on the Construction RAM Plan Modification No. 1, submitted on December 14, 2015, additional goals are the following:

1. The Construction RAM Plan anticipated that the unstained/unpainted concrete, unstained/unpainted brick and rock/boulders/bedrock blast debris would be re-used on-Site, by: (1) crushing the concrete, brick and rock to supplement soils to improve structural

strength of the soils; and / or (2) by re-using as rip rap along the storm water detention basins or along the slope of the fill leading to the Blue Hill River and associated wetlands. The initial plan was to transport any discovered asphalt pieces off-site for recycling. The Construction RAM Plan Modification No. 1 added the on-site re-use of asphalt pieces by crushing the asphalt and using it as base material beneath the paved parking areas and access roads that will be constructed on-Site. The planned on-Site crushing and re-use of Asphalt, Brick & Concrete (ABC) material is an exempt activity pursuant to 310 CMR 16.03. MassDEP and the Town of Randolph Board of Health were provided regulatory notifications of the planned ABC recycling, as documented in the Construction RAM Plan.

2. Lot 37 PL-1 or RGP-2 (Residences at Great Pond Soil Contamination Area 2): On November 6, 2015, dark, odorous soils were discovered during excavation on Lot 37, outside the lead-contaminated area. Although little contamination was detected in these soils, the soils had a strong, objectionable odor. These soils were designated PL-1 and later re-named RGP-2. The RAM Plan Modification No. 1 called for the excavation and off-site transport of these soils to the Glenview Landfill in Chelmsford, Massachusetts. The volume of soils to be excavated and transported to Glenview Landfill was estimated to be no more than 100 cubic yards. Confirmatory sidewall and bottom samples would be collected for analysis of PAHs.

Based on the Construction RAM Plan Modification No. 2, submitted on December 17, 2015, additional goals are the following:

1. Lot 37 RGP-8: On December 8, 2015, soils having a sulfurous, old gasoline odor were discovered on Lot 37, outside the lead-contaminated area. During the period December 8 to 12, 2015, approximately 420 cubic yards of soils were excavated, and confirmatory sidewall and bottom samples were collected and analyzed for EPH, PAHs, volatile petroleum hydrocarbons (VPH) and volatile organic compounds (VOCs). Additional excavation and confirmatory soil sampling is needed for analysis of VPH, VOCs and PAHs. The excavated soils will be transported to either: (1) ESMI of Loudon, New Hampshire, for treatment; or (2) Glenview Landfill (an unlined landfill) in Chelmsford, Massachusetts, for re-use as daily cover. The volume of soils to be transported was estimated to be no more than 1,000 cubic yards.

Based on the Construction RAM Plan Modification No. 3, submitted on March 22, 2016, additional goals are the following:

1. Remediation has been or will be conducted in the following locations: Lot 37 EP1, Lot 42 EP1A, Lot 42 EP2B, Lot 42 EP3A, Lot 42 EP3C, RGP-1 to RGP-9 and RGP-3456. To determine if remediation is sufficient to result in No Significant Risk of harm for residents, the Construction RAM Plan was modified to allow for either: (1) the use of the Site-specific clean-up standards specified in Section 2.1; or (2) the calculation of location-specific risk estimates using MassDEP's Resident ShortForm or GEC's residential risk assessment workbook. Exposure point concentrations will be calculated following methods allowed by the MCP [310 CMR 40.0900]. For specific contaminants of concern not analyzed in a remediated location, the exposure point concentration for the exposure point within which the remediated location is located, as used in the Method 3 Risk Characterization documented in the Phase I Initial Site Investigation, will be used as the exposure point concentration for the remediated location. The tables used in the location-specific risk assessments will be included in the applicable Construction RAM Status Reports and / or Construction RAM Completion Report.

NOTE: During construction activities, fourteen pockets of soil contamination were identified in addition to the contamination identified in the initial Construction RAM Plan. These areas were identified as RGP-1 to RGP-13, and RGP-3456. RGP-1, RGP-2, and RGP-3 are also referred to as SB-1 (Sedimentation Basin Area 1), PL-1, and SB-2, respectively. RGP-3, RGP-4, RGP-5, RGP-345, RGP-7, and RGP-10 are coal tar-contaminated areas that were contiguous or nearly contiguous with the coal tar contamination of Lot 42 EP3A. The areas are associated with the Remediation RAM, but are included in the Construction RAM materials in order to make clear the current status of each area. This Construction RAM includes information on RGP-10. The remaining RGP contamination areas were completed during the previous reporting period. Refer to the second Construction RAM Status Report for additional information on the completed contamination areas.

3.0 STATUS REPORT

This third RAM Status Report for the Construction RAM covers work from August 3, 2016 until December 1, 2017. During this period, the following activities occurred: (1) continued excavation, processing and on-Site re-use of soils; (2) excavation of specific contaminated areas with off-site transport of contaminated soils (coal tar-contaminated soils of RGP-10 under the Remediation RAM) or on-Site placement of soils at depth in a soil repository (PCB-contaminated soils of Lot 42 EP1A under the Construction RAM); (3) soil and groundwater sampling of specific contaminated areas; (4) grading of the Site to its final elevation; (5) continued installation of the stormwater detention basins and system, conversion of the sedimentation basin into a wetland and creation of two rain gardens; and (6) ambient air monitoring. The Construction RAM proceeded from the east side of Lot 37 and worked westward to the west side of Lot 42. As remediation and soil processing of each portion of the Site was completed, vertical construction of the multi-family residential apartment complex would commence. The vertical construction is conducted outside the Construction and Remediation RAM Plans. The specific remediation area addressed during this status period as part of the Construction RAM is Lot 42 EP1A. The final status of all EP and RGP areas as well as the remainder of Lots 37 and 42 are provided in Section 4.0.

The status of the construction project is provided in Section 3.1.1 to 3.1.8, and the status of response actions related to the construction project are provided in Sections 3.1.9, 3.2 and 3.3. Soil samples were submitted to Con-Test Analytical Laboratory (Con-Test), of East Longmeadow, Massachusetts and Eurofins Spectrum Analytical, Inc. (Spectrum), of North Kingstown, Rhode Island for analysis. The laboratory reports for soil samples are provided in Appendix A. The original exposure points Lot 37 EP1, Lot 37 EP2, Lot 42 EP1A, Lot 42 EP1B, Lot 42 EP2A, Lot 42 EP 2B, Lot 42 EP3A, Lot 42 EP3B and Lot 42 EP3C are depicted on Figure 3A. The planned excavation areas for the following exposure points that are also separate remedial areas are depicted on Figure 3B: Lot 37 EP1, Lot 42 EP1A, Lot 42 EP2B, Lot 42 EP3A and Lot 42 EP3C. The locations of RGP-1 to RGP-13, RGP-345 and RGP-3456 are depicted on Figure 3C.

3.1 Status of Response Actions

3.1.1 Site Preparation and Maintenance

Prior to August 3, 2016, compost filter socks and orange fence were secured along the north boundary of Lot 37 and Lot 42 and the west boundary of Lot 42. These compost filter socks and orange fencing were periodically inspected and maintained during this reporting period.

A chain link fence was also constructed along the south perimeter of Lot 37 and Lot 42. In August 2016, additional chain-link fence was installed in between Lot 37 and Lot 42. The additional

fencing was installed in order to separate the vertical construction on Lot 37 from the Site work on Lot 42.

Refer to Figure 4A for site features, such as dust monitoring locations, chain-link fence locations, compost socks and orange fence locations and de-watering trench locations.

3.1.2 Wetlands Protection and Monitoring

Wetlands border the Site along the north boundary of Lot 37 and Lot 42. Prior to August 3, 2016, compost filter socks were installed along the north boundary of Lot 37 and 42 in order to protect the wetlands. Refer to Figure 4A for the location of the wetlands and compost filter socks. The compost filter socks were routinely (daily) inspected and repairs or maintenance made when damage was observed. A number of combined Construction, Site, Environmental and Wetlands inspection reports were issued for the project. The EPA Construction NPDES permit requires Stormwater Pollution Prevention Plans (SWPPP) whenever a rain event in excess of 0.25 inches of precipitation fell based on the Blue Hills Observatory rain gauge. These reports were issued on August 22, 2016; September 6 and 27 2016; October 3, 11, 18, 24, 27, and 28, 2016; November 16 and 30, 2016; December 1 and 12, 2016; January 3, 10, 18, 19, 23, 24, 25, and 26 2017; February 7, 2017; March 14 and 28, 2017; May 8, 15, 26, 2017; June 7, 2017; July 8 and 25, 2017; August 2, 2017; September 20-22, 30, 2017; Oct 25 & 26, 29 & 30, 2017; and November 13, 18, and 22, 2017.

3.1.3 Installation of Storm Drain Swale and System

As the soil excavation, processing and re-use was completed, the sedimentation basin used to manage storm water during the Construction and Remediation RAMs was converted into a wetland. Refer to Section 4.21 for information on the conversion of the sedimentation basin into a wetland. The stormwater drainage lines in Lots 37 and 42 are complete and successfully discharge into the sedimentation basin. Upon completion of each catch basin a silt sock was installed in order to prevent sediment from entering the stormwater system. Additionally, in December 2016, silt socks were placed in each catch basin to ensure any products or materials used on Site during construction activity did not enter the stormwater system. Refer to Figure 4A for the locations of the previously existing and construction-period stormwater system. After significant rainfall events a stormwater inspection is conducted to ensure sediment and erosion control measures remain in place and are effective. Refer to Figure 4B for the locations of the final stormwater system, including the stormwater detention basin, catch basins, manholes and drain lines.

3.1.4 Soil Excavation Status

Since August 3, 2016, approximately 35,700 cubic yards of soil and other solid materials were excavated throughout Lot 42. In total, approximately 207,900 cubic yards of soil and other solid materials have been excavated throughout the Site. Soil excavation and processing within Lots 37 and 42 is complete. During this reporting period, excavation within Lot 42 included parts of original exposure points Lot 42 EP1A, EP1B, EP2A and EP3B. Refer to Figure 3A for the original planned areas of excavation. During excavation, items such as railroad ties, railroad tracks, ballast stone, bricks, tires, rebar, scrap metal, concrete, and misc. debris were separated from the soil and stockpiled. Excavated soil was stockpiled and processed to be utilized as structural fill. Refer to Section 3.1.5 and 3.1.6 for further details. During this reporting period for the Construction RAM, one localized area of contamination, i.e., Lot 42 EP1A, which was contaminated with PCBs, was excavated. During excavation, the Lot 42 EP1A contaminated soils were stockpiled and tracked and were: (1) temporarily stored on-Site pending laboratory analysis; (2) placed 14 feet below final grade in a designated soil

repository for soils containing 1 to 5 mg/kg PCBs; and / or (3) re-used on-Site beneath Building 1 or Building 2 for soils containing less than 1 mg/kg PCBs. Figure 4C depicts the boundary of the area of Lots 37 and 42 that were excavated under the Construction or Remedial RAMs. Figure 4D depicts the final boundaries of each area excavated for remedial purposes (i.e., Lot 37 EP1, Lot 42 EP1A, Lot 42 EP2B, Lot 42 EP3A / RGP-7, Lot 42 EP3C, RGP-1 to RGP-4, RGP-345, RGP-6, RGP-3456, RGP-8 to RGP-10 and RGP-12).

3.1.5 Soil Processing

The approximately 26,500 cubic yards of soil and other solid materials excavated during this reporting period (excluding the 8,195 cubic yards of soils and other solid materials excavated from Lot 42 EP1A, which are described in Section 3.1.9, below) were processed on Site. The excavated material was stockpiled on the southern region of Lot 42 EP1B, which is where the processing occurred, see Figure 4A. The soil was screened to 2" minus and the larger rock was inserted into a crusher, which generated rock approximately 4" in size. The soil and rock were combined at a 50:50 ratio in order to generate the appropriate structural fill. The processing of the PCB-contaminated soil of Lot 42 EP1A is described in Section 3.1.9.

3.1.6 Soil Re-Use

Since August 3, 2016, approximately 22,670 cubic yards were re-used on-Site as structural fill or contouring material. All excavated soils, which were located outside of remedial areas, have been re-used on site. Remedial soils or hazardous waste from the remedial areas have been placed in on-site soil repositories or have been transported off-site for treatment or re-use as daily landfill cover. For certain contaminated soils, soil repository areas located at depth allow re-use of these soils at depth. Three soil repositories are located 15 feet or more below final grade, and one is located 14 feet or more below final grade. There are four soil repositories on Site: (1) beneath the southwest portion of the future location of Building 4 and adjacent to the building footprint to the south and west, at elevations ranging from 118-125 feet above MSL; (2) beneath the future location of the clubhouse and directly adjacent to the building to the north, south and east, at elevations ranging from 118-127 feet above MSL; (3) beneath the parking lot of Building 3, at elevations ranging from 118-121 feet above MSL; and (4) beneath the location of Building 1, at elevations ranging from 135-141.5 feet above MSL. The Building 1 repository is the one located 14 feet or more below final grade. Refer to Sections 4.0 and 6.1 for further information. Refer to Figure 4E for the location and contents of each soil repository.

3.1.7 Dewatering of Excavations

The Construction RAM Plan provided a provision to place water recovered during de-watering activities in an upgradient trench, with the monitoring of infiltration to ensure that discharge to a wetland resource area does not occur. No de-watering occurred on site during this reporting period. The excavations did not reach the water table and no significant rain events impacted the excavation. The location of excavations requiring dewatering and recharge trenches from prior to August 2016 are depicted on Figure 4F.

3.1.8 Ambient Air Monitoring

Soil moisture was monitored continuously throughout the Site in order to prevent dust generation. During soil excavation and processing activities, air monitoring was conducted for PM-10 (10 micron particulate matter) continuously in real time. The dust Action Level was 150 micrograms

per cubic meter. Three weather proof Dust Trak II Aerosol Monitors Model 8530 (dust monitors) were used to collect real-time data. The dust monitors were placed near the property line bordering the residences on the west side of the Lot 42, downwind of the established prevailing wind direction, and in the work zone. Figure 4A depicts dust monitors DM-1, DM-2 and DM-3. DM-1 and DM-3 were located upwind and downwind of construction activity, respectively. DM-2 was located in a central portion of the Site, where the most construction activity occurred. The dust monitors' locations did not change during the project. Throughout the project, the dust monitors were replaced and/or repaired to ensure the equipment was operating correctly.

DM-1 was DistTrak II 8530133004 from August 31, 2015 to October 7, 2016, which corresponds to TEST 005 through TEST 243. In October 2016, DM-1 was repaired and returned to the Site on October 20, 2016. The unit was reset and started on TEST 001 and has operated successfully since. DM-2 was DistTrak II 8530093124 from August 31 to October 26, 2015, which corresponds to TEST 001 to TEST 039. The unit was replaced with DistTrak II 8530095004 from October 28 to November 25, 2015, which corresponds to TEST 001 to TEST 018. The unit was replaced a second time with DistTrak II 8530122705 on December 1, 2015. DM-2 started on TEST 001 and has operated successfully since. DM-3 was DistTrak II 8530121507 from August 31 to September 3, 2015, which corresponds to TEST 002 to TEST 004. The unit was replaced with DistTrak II 8530104305 from September 9 to December 4, 2015, which corresponds to TEST 001 to TEST 058. The unit was replaced a second time with DistTrak 8530095004 from December 16 to December 23, 2015, which corresponds to TEST 001 TO 004. The unit was replaced a third time with DistTrak 8530122701 on January 6, 2016. DM-3 started on TEST 002 and has operated successfully since. Refer to Appendix B for a summary of the daily test results. Due to the size of the data collected, GEC was unable to include the complete set of monitoring data within the report. The complete set of monitoring data is saved and accessible if necessary.

Two water sources were used for dust suppression: (1) a hose directly connected to the Town of Randolph water supply; and (2) a water truck. The water used for dust suppression was monitored carefully so that runoff did not impact wetland resource areas, storm drain basins or cause erosion.

Dust levels exceeded the Action Level most days, but only for approximately thirty seconds. The averages for each day were significantly less than the Action Level. On one occasion (April 18, 2016), a neighbor commented on the levels of dust and an immediate action was taken. On dry and/or windy days the dust was monitored closely. GEC communicated with SLT to use the hose or water truck to mitigate the dust. On some occasions the work was stopped to decrease the dust levels. DM-2 experienced the most exceedances due to its location along the main access road. DM-1 and DM-3, which were located on the perimeters of the Site, experienced significantly less exceedances. Most of the dust activity occurred within the Site boundaries with the exception of the event on April 18, 2016.

Organic compounds were also monitored during excavation activities using a handheld photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. If observations suggest the presence of volatile petroleum or organic vapor, total organic vapors (TOV) readings were recorded during excavation. Available open air readings ranged from 0.0 to 0.5 ppmv. During excavation, when an elevated TOV reading was encountered, a soil sample was collected and submitted to the laboratory for complete disposal criteria characterization.

3.1.9 Status of Lot 42 EP1A

Between November 29, 2016 and February 21, 2017, approximately 8,195 cubic yards of material were excavated from Lot 42 EP1A. Refer to Figures 5A to 5D for a depiction of the extent and depth of excavation, as well as from where each cell (stockpile) of soil originated. The excavate consisted of soil, and included other materials such as railroad ties, railroad tracks, ballast stone, bricks, tires, rebar, scrap metal, concrete, and misc. debris. Refer to Figure 5E for the location of each

temporary stockpile. The approximate volumes of material recovered during excavation are summarized below.

Material	Approximate Volume	Comment
Rock, Unpainted/Unstained Concrete, Unpainted Brick	3,278 cubic yards	Rock, concrete, and brick that were greater than 3" were stockpiled together.
Soil	4,717 cubic yards	Soil was screened to 3"-minus; therefore, the volume includes all fragments of rock, brick or concrete within that size. The soil was stockpiled on and covered with 12 mm polyethylene sheeting.
Railroad Ties and Rails	100 cubic yards	Railroad ties and rails were segregated in a stockpile together during the excavation.
Rebar and Misc. Scrap Metal	100 cubic yards	Rebar and all miscellaneous scrap metal were stockpiled together.

The area of excavation was divided into three sub-areas (42-1-1, 42-1-2 and 42-1-3), based on test pits that were completed prior to the start of this project, as depicted on Figure 3A. These sub-areas are identified based on the relative levels and horizontal and vertical distribution of PCBs in soils. Solid debris was removed and soils were screened. Each sub-area was divided into approximately 55-cubic yard cells. The soils were excavated one cell at a time. Initial processing removed all rock larger than 1 foot to be reused on Site and removal of any non-soil debris. Each approximately 55-cubic yard stockpile was placed on and covered with 12-mm polyethylene sheeting for temporary storage. Composite soil samples were collected from each stockpile for laboratory analysis of PCBs via USEPA Method 8082 with Soxhlet extraction. Once the PCB analytical data was received from the laboratory, the stockpile was flagged for compiling with similar soils in one of three categories: (1) <1 mg/kg PCBs; (2) 1-3 mg/kg PCBs; and (3) 3-5 mg/kg PCBs.

The excavation in each sub-area was conducted in four lifts, numbered 1 to 4 with 4 being the deepest. Following each planned lift excavation, sidewall and/or bottom samples were collected to determine if the excavation needed to proceed either laterally or vertically. Refer to Figures 5F to 5I for the confirmatory sample locations for lifts 1 to 4, respectively. The sidewall and bottom confirmatory soil samples were also analyzed for PCBs via USEPA Method 8082 with Soxhlet extraction. If a confirmatory sample contained < 1 mg/kg PCBs, the excavation was considered complete in that area. Figures 5J to 5M provide the depth intervals and PCB concentrations for the final confirmatory soil samples for lifts 1 to 4, respectively. Refer to Table 1.1 for summaries of the PCB analytical data for both the excavated cells and the confirmatory sidewall and bottom samples.

Soils containing the higher levels of PCBs were associated with the presence of ballast stone and railroad ties. Horizontal excavation of soils within Lot 41 EP1A proceeded to the east and south until natural soils were encountered. It proceeded to the west and north until PCB levels were < 1 mg/kg and there was no evidence of ballast stones or railroad ties.

Sub-area 42-1-1

For sub-area 42-1-1, soils of two cells (42-1-1A and 42-1-1D) from the 0-4 foot interval contained PCBs at levels of 1.28 and 1.04 mg/kg, respectively. All other cells from the 0-4 or 0-6 foot interval contained PCB levels < 1 mg/kg, including the two cells east of 42-1-1A and 42-1-1D (i.e., 42-1-1I and 42-1-1J). 42-1-1A is located along the north side of sub-area 42-1-1. The north sidewall samples of sub-area 42-1-1 (i.e., 42-1-1A North Sidewall and 42-1-1BGH North Sidewall contained no detectable levels of PCBs. The east sidewall sample (42-1-1JI) contained 0.35 mg/kg PCBs. The

excavation of sub-area 42-1-1 did not need to be extended to the north or east for the 0-4 foot depth interval.

For the 4-9 to 6-10 foot intervals, no PCBs were detected at levels exceeding 1 mg/kg in any of the soils for the seventeen cells excavated from this area. However, sidewall sample 42-1-1PQ, which was collected at the 3-10 foot interval along the north sidewall of cells 42-1-1PP and 42-1-1QQ, contained 1.41 mg/kg PCBs. Therefore, the excavation proceeded a short distance beyond the northern boundary of pre-planned excavation of sub-area 42-1-1. Following additional excavation to the north, the new sidewall sample (42-1-1PPQQ), which was collected at the 3-6 foot interval, contained 0.030 mg/kg PCBs. At this location, natural soils were encountered at 5 feet below grade and ledge at 6 feet below grade. At the northeast side of sub-area 42-1-1, at AA and JJ, natural soils were encountered at nine feet below grade. Two soil samples collected from these two areas (i.e., 42-1-1AA and 42-1-1JJ) contained no detectable levels of PCBs. No further excavation beneath this area was determined to be necessary.

For the 9-13 or 10-13 foot intervals, no PCBs were detected in any soils for the six cells excavated from this area at levels exceeding 1 mg/kg. The highest level of PCB was detected in the 9-13 foot interval soils of 42-1-1EEE (9-13 feet) at 0.92 mg/kg. The soil sample collected from north sidewall of 42-1-1EEE (i.e., 42-1-1EEE North Sidewall) contained no detectable level of PCBs. The other north sidewall sample (i.e., 42-1-1FFF North Sidewall) for sub-area 42-1-1 9-13 foot interval also had no detectable level of PCB. The soils from the three cells on the north side of sub-area 42-1-1 (i.e., 42-1-1AAA to 42-1-1CCC) contained PCB levels ranging between 0.032 and 0.049. Given the low levels of PCBs in these areas no east sidewall samples were collected for the 9-13 foot interval. Natural soils were encountered 13 feet below grade at 42-1-1AAA to 42-1-1FFF. A bottom soil sample, collected at 13 feet, contained no detectable level of PCBs. Based on the foregoing, all soils containing more than 1 mg/kg PCBs in sub-area 42-1-1 have been removed. Excavation of sub-area 42-1-1 is complete.

Sub-area 42-1-2

At sub-area 42-1-2, elevated levels of PCBs were detected in stockpiled soils excavated (0-8 foot interval) from cells 42-1-2A (1.72 mg/kg), 42-1-2E (1.08 mg/kg), 42-1-2I (0.94 mg/kg), 42-1-2J (4.5 mg/kg), 42-1-2K (4.79 mg/kg), and 42-1-2L (1.74 mg/kg). Ballast stone was fixed mixed in with these soils. Further north along the east side of the excavation, soils of cells 42-1-2B, 42-1-2C and 42-1-2D contained < 1 mg/kg PCBs. The east sidewall sample (42-1-2BCD) along these three cells contained 0.047 mg/kg PCBs, which indicated that further excavation to the east was not needed along these three cells. Additional excavation was needed east of 42-1-2J.

The excavation extended east of 42-1-2J. This new cell was called 42-1-2S. It was excavated to 6 feet below grade; natural soils were encountered at approximately 3 feet below grade. Soil from this cell contained 1.2 mg/kg PCBs. A confirmatory sidewall sample (42-1-2IJS) was collected east of 42-1-2I and 42-1-2S, at the 0-6 foot interval. It contained no detectable PCBs; natural soils were present 1.5 feet below grade at this location. Natural soils were encountered at shallow depths at the east end of sub-area 42-1-2. The final sidewall samples from this area contained no detectable levels of PCBs or levels of PCBs < 0.1 mg/kg.

Elevated levels of PCB were also detected beneath this area (i.e., in the 8-11 foot interval of 42-1-2BB (4.7 mg/kg PCB) and east sidewall sample 42-1-2CCDD at 8-10 feet below grade (1.92 mg/kg PCB). Railroad ties were observed in this area. Excavation was conducted further to the east of 42-1-2BB (part of 42-1-2AA) and of 42-1-2CC to 42-1-2EE. Confirmatory east wall samples 42-1-2BB (8-11 feet) and 42-1-2DDEE (0-6 and 6-10 feet) contained PCB levels of 0.046, 0.38 and 0.26 mg/kg, respectively. The eastern excavation to the east side of sub-area 42-1-2 was considered complete for the 8-12 foot interval.

Excavation of the 42-1-2 sub-area was conducted from approximately 12 to 14 feet below grade. Natural soils were encountered between 13 and 14 feet below grade. The soils excavated from the 12-14 foot depth interval contained < 1 mg/kg PCBs.

For the south sidewall of sub-area 42-1-2, all of the soils from the south cells (regardless of depth interval) contained PCB levels < 1 mg/kg. For 42-1-2, all soils containing more than 1 mg/kg have been excavated. The excavation of 42-1-2 is complete.

Sub-area 42-1-3

Excavation proceeded a short distance beyond the northern boundary of the pre-planned excavation of sub-area 42-1-3.

Elevated levels of PCBs were detected in the 0-4 to 0-6 foot interval zone of sub-area 42-1-3 (i.e., 42-1-3B and 42-1-3Elocated in the northwest portion of this sub-area and 42-1-3Z located on the southeast side of 42-1-3). The soils of the 0-6 foot interval of 42-1-3B and 42-1-3E contained 1.34 and 1.31 mg/kg PCBs, respectively. The soils of the 0-4 foot interval of 42-1-3Z contained 1.70 mg/kg PCBs. Cell 42-1-3B is the only one located along an outside border (northern) of sub-area 42-1-3. The remaining 23 cells of the 0-4 and 0-6 foot interval soils contained < 1 mg/kg PCBs. All sidewall samples for this interval contained < 1 mg/kg PCBs.

Elevated levels of PCBs were detected in the 4-8 to 6-10 foot interval of five cells (42-1-3AA and 42-1-3OO to 42-1-3RR) located in the southern portion of sub-area 42-1-3. Railroad ties were located in most of the cells at this depth interval. The levels of PCBs ranged from 1.58 to 4.01 mg/kg in these cells. The remaining nineteen cells contained < 1 mg/kg PCBs. The only cell containing > 1 mg/kg PCBs located along an outside border (southern) of sub-area 42-1-3 is 42-1-3AA. In this cell the railroad ties were observed in the northwest corner, near 42-1-3QQ. All sidewall samples collected along the south, west and north outside sidewalls of sub-area 42-1-3 for this interval contained < 1 mg/kg PCBs.

For the 8-10 to 8-12 foot interval of sub-area 42-1-3, the soils of three cells (i.e., 42-1-3LLL to 42-1-3NNN) contained levels of PCBs ranging from 1.11 to 1.48 mg/kg PCBs. All three cells had railroad ties, and 42-1-3MMM also had ballast stone at its north end. 42-1-3LLL is located along the north outside border of sub-area 42-1-3, and 42-1-3MMM and 42-1-3NNN are located along the south outside border of sub-area 42-1-3. The soils of the remaining 20 cells for this depth interval of sub-area 42-1-3 contained < 1 mg/kg PCBs. All sidewall samples collected along the south, west and north outside sidewalls of sub-area 42-1-3 for this interval contained < 1 mg/kg PCBs.

For the 12-14 to 12-16 foot interval of sub-area 42-3-1, the soils of the thirteen cells contained PCBs at levels < 1 mg/kg. All of the sidewall samples from this depth interval had PCB levels < 1 mg/kg. Depending on the cell, natural soils were encountered between 14 and 16 feet below grade. Six confirmatory bottom samples were collected at the top of the natural soils. PCBs were detected at levels ranging from none detected (<0.022 mg/kg) to 0.073 mg/kg.

Generally, the soils of Lot 42 EP1A did not have an abundance of coal, coal ash or wood ash. However, the soils of two areas of Lot 42 EP1A had significant amounts of wood ash, coal ash or coal/anthracite. For the three cells comprising these two areas, the levels of PCBs were < 1 mg/kg. These soils, when found, were excavated, but were not placed with the other cells containing < 1 mg/kg PCBs. They were segregated until they were placed more than 15 feet below final grade in the Building 1 soil repository.

The cells of 42-1-3FF (4-8 foot) and 42-1-3GG (4-8 foot) were located in the northwest portion of sub-area 42-1-3. Cells 42-1-3FF and 42-1-3GG are contiguous cells and together are the first area of soils containing wood ash coal ash or coal/anthracite. The soils from these cells contained 0.26 and 0.31 mg/kg PCBs. The excavation of these cells was extended a short distance north of 42-1-3GG. Refer to Table 1.2 for a summary of the EPH and analytical data for the confirmatory sidewall and bottom samples for 42-1-3FF and 42-1-3GG.

The second area of soils containing wood ash, coal ash and anthracite was observed in cell 42-1-3T (0-4 foot). The soils from this cell contained 0.23 mg/kg PCBs. This cell is located in the south central portion of sub-area 42-1-3.

Soil excavation at Lot 42 EP1A was completed on February 21, 2017. The Site-specific PCB clean-up standard for Lot 42 EP1A was 1 mg/kg. Based on the foregoing, the horizontal and vertical extent of soils containing more than 1 mg/kg PCBs were excavated. Based on the results of PCB analyses for each of the excavated cells (initially placed in approximately 55-cubic yard stockpiles), the stockpiles were compiled as follows: (1) approximately 220 cubic yards of soils containing 3 to 5 mg/kg PCBs; (2) approximately 880 cubic yards of soils containing 1 to 3 mg/kg PCBs; and (3) approximately 7,095 cubic yards of soils containing < 1 mg/kg PCBs. The soils containing coal ash / wood ash / coal but < 1 mg/kg PCBs were placed in a fourth stockpile. All stockpiles were located on and covered by poly sheeting. All four groupings of soils were re-used on-Site or placed in on-Site soil repository, as described below and in Section 6.1.

Preparation of Soil Repository, Soil Processing and Soil Placement

A 20-foot wide sewer easement passes through the 42-1-3 and 42-1-2 sub-areas of Lot 42 EP1A. This sewer easement was recently abandoned when a new sewer easement was located on-Site and a new sewer line was installed. The portion of the abandoned sewer easement located beneath the east side of sub-area 42-1-3 and the west side of sub-area 42-1-2 was enlarged by seven feet to the north and deepened to an elevation of 135 feet above MSL to serve as a soil repository for the soils containing 1 to 5 mg/kg PCBs. This soil repository is located beneath the future footprint of Building 1, and is called the Building 1 soil repository. Following placement of soils containing 1 to 5 mg/kg PCBs, the top of the repository will be at an elevation of 141.5 feet above MSL or 14 feet below final grade. At Building 1, the final grade will have an elevation of 155.5 feet above MSL.

The PCB soils were not processed in the same fashion as the other Site soils used for structural fill and contouring. The 1,100 cubic yards of soils placed within the repository were too wet, which undermined the geotechnical strength of the soils. Therefore under the direction of a structural engineer, the soils were mixed with Portland cement at a ratio of approximately 50 to 100 eighty-pound bags per 100 cubic yards of soil (depending on the wetness of the soils). Each batch of soil was mixed for one hour using an excavator, then covered with poly sheeting to help retain the heat to allow the process to complete. The reaction between the cement and moisture allowed for the soil to be deemed stable enough for placement.

The coal ash / PAH soils from Lot 42 EP1A were added to the 3-5 mg/kg PCB soils during processing. After mixing with Portland cement and meeting structural requirements, these soils were placed in one-foot to two-foot lifts into the bottom of the west portion of the Building 1 soil repository at elevation ranging from 135 to 137 feet above MSL. The 1-3 mg/kg PCB soils were processed similarly to the 3-5 mg/kg PCB soils, and were placed on top of the 3-5 mg/kg PCB soils at elevations ranging from 137 to 141.5 feet above MSL. At the east end of the Building 1 soil repository, 1-3 mg/kg PCB soils were placed from 135 to 141.5 feet above MSL. Refer to Figures 4E and 5N (red-hatched area) for the location of the Building 1 soil repository (contains 1-5 mg/kg PCBs plus coal ash/PAH-contaminated soils).

Once PCB (>1 mg/kg) containing material was placed at depth beneath Building 1, the 7,095 cubic yards of soils, which contained <1 mg/kg PCBs, were filtered through a 3”-minus screen and placed inside the Building 1, 2 and 3 footprints, as depicted on Figure 5N (blue hatched areas). For soils that were too wet and deemed not stable, approximately 80-pound bags of Portland cement were added per 100 cubic yards of soil prior to placement. Soil lift placements occurred in 1- to 2-foot intervals, depending on the moisture content of the soils. Most of these soils were placed beneath Building 1, at elevations above 141.5 feet above MSL. The remainder of the soils containing <1 mg/kg PCBs (approximately 100 cubic yards) were placed beneath Buildings 2 and 3 and their adjacent

parking lots. All PCB soils were placed by May 4, 2017. Clean processed material and fill sand were place over the soils containing PCBs, and the concrete slabs were poured for each building.

As elsewhere on-Site, wherever soil excavation occurred, GEC observed the remainder of the excavation in the Building 1 area to ensure there was no further evidence of suspicious soils or materials, potentially indicative of OHM contamination. None were found.

Risk Assessment Issues for Lot 42 EP1A

Approximately 8,195 cubic yards of PCB-contaminated soils (with a small amount containing coal ash) were excavated from Lot 42 EP1A. The soils containing between 1 and 5 mg/kg PCBs (approximately 1,100 cubic yards, including a small volume of soils containing coal ash / wood ash / coal) were placed in a soil repository beneath Building 1, located 14 feet or more below grade. The soils containing 3-5 mg/kg PCBs or containing coal ash but < 1 mg/kg PCBs were placed at depths between 18.5 and 20.5 feet below final grade. The soils containing 1-3 mg/kg PCBs were placed between 14 and 20.5 feet below final grade.

During the initial Risk Characterization, documented in the Phase I Initial Site Investigation, the exposure point concentrations for PCBs at Lot 42 EP1A were determined to be 1.4 mg/kg for the 0-3 foot interval and 2.5 mg/kg for the 0-6 and 0-15 foot intervals (based on 95th percentile confidence limits on the mean). No Significant Risk of harm was determined to exist for Lot 42 EP1A for residents, utility workers and construction workers. A decision was made to place the PCB-contaminated soils as deep as possible to minimize future potential for PCB exposure. Therefore, No Significant Risk of harm was determined to still exist for Lot 42 EP1A after moving the PCB-contaminated soils deeper. During excavation, the PCB-contaminated soils were found to be co-located with railroad ties and ballast stone. This material likely originated from the Orange Line.

Approximately 7,095 cubic yards of soils excavated from Lot 42 EP1A contained less than 1 mg/kg PCBs. These soils were placed over the PCB-contaminated soils beneath Building 1, with a small amount beneath Buildings 2 and 3 (Figure 5N). These soils are not considered as being within a soil repository, but were placed beneath a building and or parking lots to minimize the potential for future contact. There is no Significant Risk of harm from exposure to these soils.

3.2 Significant New Information

No Significant new information is available for this reporting period.

3.3 Remedial Monitoring Report

No active or long-term remediation requiring a Remedial Monitoring Report was conducted under this Construction RAM. Therefore, no Remedial Monitoring Report is necessary for this Construction RAM Plan.

4.0 DESCRIPTION OF RELEASE ABATEMENT MEASURE AND MONITORING DATA

The Construction RAM's activities began in October 2015. It entailed processing of soils to improve its geotechnical strength, the construction of subsurface utility features and drainage swale, as well as certain remedial activities not conducted under the Remediation RAM (described in the paragraph below). The remedial activities conducted under the Construction RAM included: (1) the placement of lead-contaminated soils from Lot 37 EP1 and Lot 42 EP2B in on-Site soil repositories located more than 15 feet below final grade, after excavation and TCLP-lead treatment under the Remediation RAM; (2) the excavation of PAH-contaminated soils from Lot 42 EP3C for placement in

on-Site soil repositories located more than 15 feet below grade; (3) the excavation of PCB-contaminated soils from Lot 42 EP1A for placement at depth; (4) the excavation of soils from RGP-2 and RGP-8 for off-site disposition; (5) the excavation of RGP-12 soils and some RGP-7 soils for off-site disposition of these soils under the Remediation RAM; (6) the excavation of soils from RGP-3, RGP-9 and RGP-3456 for placement in on-Site soil repositories; (7) the excavation of soils from RGP-1 and RGP-6 with on-Site placement of some soils in on-Site soil repositories and (under the Remediation RAM) the off-site disposition of excess soils that would not fit in an on-Site soil repository; and (8) investigation of suspect areas RGP-11 and RGP-13 to determine if these soils were acceptable for unlimited on-Site re-use. The site work was conducted by SLT Construction Corporation of Carver, Massachusetts, under the direction of NEI General Contracting of Randolph, Massachusetts. GEC provided oversight for the MCP, wetland and storm water aspects of the site work. The laboratory reports are provided in the applicable Construction and RAM Status Reports (including for the laboratory reports for Lot 42 EP1A in Appendix A of this report).

The Remediation RAM's remedial activities began on August 28, 2015 and included remedial areas Lot 37 EP1, Lot 42 EP2B and the coal tar areas comprised of RGP-3, RGP-4, RGP-7 and RGP-345 located in Lot 42 EP3A and EP3B and RGP-10 located near Lot 42 EP3A. GEC provided oversight for the site work, which was conducted by Earth Connections, Inc. (ECI), Soil Solutions LLC - Treatment Technology (SSTT), SLT Construction Corporation and US Ecology. Prior to the start of excavation, GEC surveyed and staked the planned remedial excavation areas according to the areas depicted in Figure 3B.

To provide a fuller understanding of remedial actions taken at certain portions of the Site, the status of the activities conducted under both the Construction and Remediation RAMs are provided below.

4.1 Status of Lot 37 EP1

Remediation RAM Activities:

Between August 31 and September 28, 2015, approximately 1,800 cubic yards of material were excavated from Lot 37 EP 1. The fill consisted mostly of soil, but included other materials such as rock, concrete, brick, rebar, scrap metal, tile and miscellaneous solid waste, which were segregated from the soils as described below. Materials such as stained or painted concrete and painted brick were not identified during the excavation of Lot 37 EP 1. Refer to Figure 6A for the area and depths of excavation. The approximate volumes of material recovered during excavation are summarized below.

Material	Approximate Volume	Comment
Soil	975 cubic yards	Soil was screened to 6" minus; therefore, the volume includes all fragments of rock, concrete, or brick within that size. The soil was stockpiled on and covered with 12 mm polyethylene sheeting.
Rock and Unpainted/Unstained Concrete	725 cubic yards	Rock and concrete that were greater than 6" were stockpiled together on soil.
Rebar and Misc. Scrap Metal	120 cubic yards	Rebar and all miscellaneous scrap metal were stockpiled together on soil.
Misc. Solid Waste	<1 cubic yard	Items included tires and carpet and were stockpiled together on soil.

Ceramic Tile	<1 cubic yard	Ceramic tiles were segregated from soil stockpiles and stockpiled together on soil.

The area of excavation was divided into eight cells (37-1-1, 37-1-2, 37-1-3, 37-1-4, 37-1-5, 37-1-6, 37-1-7 and 37-1-8) based on test pits that were completed prior to the start of this project. The areas and depths were excavated as outlined in the Remediation RAM Plan.

Sidewall and/or bottom confirmatory samples were collected in six (37-1-1, 37-1-2, 37-1-3, 37-1-4, 37-1-6 and 37-1-8) of the cells in order to determine the limit of contamination. If the sample contained less than 600 mg/kg of lead, the excavation was complete. If the sample contained more than 600 mg/kg of lead, the soil sample was analyzed for TCLP lead and additional soil was excavated from this location. In two cells (37-1-5 and 37-1-7), composite soil samples were collected. The cells' samples contained more than 600 mg/kg of lead; therefore, the soil was excavated and confirmatory sidewall and/or bottom sampling was conducted.

Four of the cells (37-1-1, 37-1-2, 37-1-4 and 37-1-5) required additional excavation, which increased the total volume of material excavated to more than originally estimated for each cell. Refer to Figure 6A for the additional areas of excavation, and the results of total lead and TCLP lead analytical data during the course of the excavation. The approximate volumes of material excavated from each cell are summarized below.

Cell	Estimated Volume	Actual Approx. Volume	Comments
37-1-1	120 cubic yards	305 cubic yards	Additional excavation was required on three occasions: (1) 10 feet west, 5 feet north (2) 5 feet west, 5 feet north (3) 5 feet west, 4 feet bottom.
37-1-2	120 cubic yards	210 cubic yards	Additional excavation was required on three occasions: (1) 5 feet north (2) 5 feet north (3) 5 feet north.
37-1-3	300 cubic yards	300 cubic yards	No additional excavation was required.
37-1-4	240 cubic yards	445 cubic yards	Additional excavation was required on one occasion: (1) 10 feet east, 10 feet south.
37-1-5	150 cubic yards	225 cubic yards	Additional excavation was required on one occasion: (1) 10 feet south.
37-1-6	205 cubic yards	205 cubic yards	No additional excavation was required.
37-1-7	75 cubic yards	75 cubic yards	No additional excavation was required.
37-1-8	45 cubic yards	45 cubic yards	No additional excavation was required.

Once the material was excavated and the soil was filtered through the 6"-minus screen, the soil was separated into four stockpiles to be treated in the immediate vicinity where excavated. In order to reduce the soil's lead leachability, soils with TCLP concentrations greater than 5 mg/l were treated. All of the cells, with the exception of 37-1-7, contained TCLP concentrations greater than 5 mg/l and were stockpiled for treatment. Cell 37-1-7 contained a total lead concentration greater than 600 mg/kg and a TCLP concentration less than 5 mg/kg; therefore, the soil was not treated, but was segregated to be placed 15 feet below grade during the Construction RAM. In total, thirty-three confirmatory samples were collected and thirty-two confirmatory samples were submitted to the lab to be analyzed for total lead. Twelve of the confirmatory samples contained total lead concentrations greater than 600 mg/kg and were further analyzed for TCLP lead. Refer to Table 2.1 for the soil analytical data and to Appendix A of the *Remediation RAM Status Report no. 3, Remedial Monitoring Report no. 3 and*

Remediation RAM Completion Report for a copy of the laboratory reports. Figure 6A depicts the extents and depths of excavation and shows the results of total lead and TCLP lead data during the course of the Remediation RAM. Figure 6B depicts the total lead and TCLP lead data for the final confirmatory sidewall and bottom samples.

The excavated and filtered soils were placed in four soil stockpiles in the immediate vicinity of the excavation. The stockpiles were placed on and covered with 12 mm polyethylene sheeting, until treatment was complete. The soil treatment was performed was performed by SSTT using SSTT-CS from September 24 to 28, 2015. The treatment successfully lowered TCLP lead concentrations less than 5 mg/l, as demonstrated in Table 2.2. Refer to Appendix A of the *Remediation RAM Status Report no. 3, Remedial Monitoring Report no. 3 and Remediation RAM Completion Report* for a copy of the laboratory results of the treated stockpiles.

The approximate volumes of each stockpile are summarized below.

Stockpile	Approximate Volume
1	140 cubic yards
2	110 cubic yards
3	140 cubic yards
4	500 cubic yards

On October 9 and 10, 2015, the stockpiles were temporarily placed back into the Lot 37 EP1 area of excavation. Polyethylene sheeting lined the area of excavation prior to backfilling in order to segregate the treated and untreated lead-contaminated soil from the surrounding soils. Polyethylene sheeting was also used to cover the lead-contaminated soils. In total, approximately 975 cubic yards of soil were located back into the area of excavation, of which approximately 900 cubic yards of soil were treated in order to reduce TCLP lead concentrations. The volume of the four stockpiles was approximated to range between 890 and 900 cubic yards. Approximately 75 cubic yards were not treated, but contained levels of total lead greater than 600 mg/kg.

Construction RAM Activities:

Between December 23, 2015 and January 8, 2016, these soils (975 cubic yards) were re-excavated and placed in the soil repository beneath future Building 4. There was space for all the lead-contaminated soils from Lot 37 EP1, but a heavy rain and frost occurred, which undermined the geotechnical strength of the soils. Therefore, one lift of lead-contaminated soils (approximately 275 cubic yards) was removed and temporarily placed at Lot 42 EP2B, which leaves approximately 700 cubic yards of the Lot 42 EP2B soils in the Building 4 repository. For Building 4 soil repository, the lead-contaminated soils were placed between elevations 118 and 125 feet above MSL. The final grade is 141 to 142 feet above MSL, which means the lead-contaminated soils were placed more than 15 feet below final grade.

On May 18, 2016, the 275 cubic yards temporarily moved to Lot 42 EP2B were placed in the soil repository beneath the future clubhouse. Within the clubhouse soil repository, the lead-contaminated soils were placed between elevations 119 and 124 feet above MSL. The final grade is 142 to 143 feet above MSL, which means the lead-contaminated soils have been placed more than 15 feet below final grade. Refer to Section 6.1 for more information on the soil repository located beneath future Building 4. Refer to Figure 4E for the final repository locations of the Lot 37 EP1 soils.

4.2 Status of Lot 42 EP1A

The excavation and on-Site re-use of soils from Lot 42 EP1A was conducted during this reporting period. For a complete summary of these activities, refer to Section 3.1.9.

4.3 Status of Lot 42 EP2B

Remediation RAM Activities:

Between September 14 and November 12, 2015, approximately 6,000 cubic yards of material were excavated from Lot 42 EP 2B. Refer to Figure 7A for a depiction of the excavation and total and TCLP lead analytical data. The final confirmatory total lead and TCLP lead analytical data are depicted in Figure 7B. The excavate consisted of soil, and included other materials such as rock, concrete, painted concrete, stained concrete, brick, painted brick, rebar, scrap metal, coal tar, miscellaneous solid waste, and oil debris. A small area of coal tar and coal tar-contaminated soils was discovered during excavation of this area. Refer to Figure 7C for the area within Lot 42 EP 2B that was impacted by the coal tar contamination. The approximate volumes of material recovered during excavation are summarized below.

Material	Approximate Volume	Comment
Rock, Unpainted/Unstained Concrete, Unpainted Brick	3,050 cubic yards	Rock, concrete, and brick that were greater than 3" were stockpiled together.
Soil	2,420 cubic yards	Soil was screened to 3"-minus; therefore, the volume includes all fragments of rock, brick or concrete within that size. The soil was stockpiled on and covered with 12 mm polyethylene sheeting.
Painted/Stained Concrete	250 cubic yards	Painted and stained concrete were segregated in a stockpile together during the excavation.
Rebar and Misc. Scrap Metal	200 cubic yards	Rebar and all miscellaneous scrap metal were stockpiled together in a trailer.
Oil Debris	25 cubic yards	Items included railroad ties, telephone poles, and shingles that were stockpiled together on 12 mm polyethylene sheeting.
Coal Tar- Contaminated Soil	20 cubic yards	Coal tar-contaminated soils contained elevated levels of lead and EPH/PAHs and were stockpiled on and covered with 12 mm polyethylene sheeting.
Coal Tar	<1 cubic yard	Volume approximately filled one 55-gallon drum.
Misc. Solid Waste	<1 cubic yard	Items included approximately a dozen tires that were stockpiled together.

The area of excavation was divided into seven cells (42-2-1, 42-2-2, 42-2-3, 42-2-4, 42-2-5, 42-2-6, and 42-2-7) based on test pits that were completed prior to the start of this project. Cells 42-1-1 and portions of 42-2-7 were initially excavated because elevated concentrations of lead were previously identified in these locations.

During the excavation of 42-2-1, coal tar was identified in the southwest corner based on visible evidence. The location of the coal tar is provided in Figure 7C. The coal tar was excavated on October 2, 2015 and stockpiled into a polyethylene-lined pit. Sidewall and bottom samples were collected at the area of excavation in order to determine the extent of the coal tar contamination. A composite

sample of the stockpile was collected and submitted to the lab. The stockpile was tested based on the disposal criteria requirements of potential off-site receiving facilities.

Based on the initial laboratory results, the coal tar and coal tar-contaminated soils needed to be transported to a receiving facility. The initial laboratory results revealed that the coal tar and coal tar-contaminated soils contained elevated levels of lead and EPH/PAHs. In order to reduce the volume of material needed to be transported off-site and/or to reduce the chance of having to send the coal tar contamination to a hazardous waste receiving facility, GEC separated the coal tar from the coal tar-contaminated soil. The coal tar was placed in a 55-gallon drum and the coal tar-contaminated soil was placed on a 12-mm polyethylene sheet. The coal tar and coal tar-contaminated soil were then re-sampled separately, and analyzed for total lead, TCLP lead and EPH including PAHs.

Based on the secondary laboratory results, the approximately 20 cubic yards of coal-tar contaminated soil had the following characteristics: (1) total lead levels greater than 600 mg/kg; (2) TCLP concentrations greater than 5 mg/l thus requiring treatment; (3) naphthalene, 2-methylnaphthalene and C11-C22 aromatic hydrocarbon levels less than the Site-specific clean-up criteria (thus not having to be shipped off-site); and (4) levels of carcinogenic PAHs greater than the Site-specific clean-up criteria. Based on these results, the soils can be re-used at depths greater than 15 feet below ground surface during the Construction RAM, but would first have to be treated prior to on-Site re-use. Refer to Table 3.1 for the total lead and TCLP lead data for the coal-tar contaminated soils and to Table 3.2 for the EPH and PAH data for the coal-tar contaminated soils.

The coal tar sample contained levels of total lead below 300 mg/kg and TCLP lead less than 5 mg/l. It contained elevated levels of naphthalene, 2-methylnaphthalene, C11-C22 aromatic hydrocarbons and other EPH and PAH compounds. Cyn Environmental Services provided permission to ship the 55-gallon drum of coal tar to their facility. Refer to Appendix A in the *Remediation RAM Status Report No. 3, Remedial Monitoring Report No. 3 and Remediation RAM Completion Report* for a copy of the laboratory reports and to Appendix F of the *Remediation RAM Status Report No. 3, Remedial Monitoring Report No. 3 and Remediation RAM Completion Report* for a copy of the Hazardous Waste Manifest.

Following the excavation of 42-2-1, sidewall and/or bottom samples were collected in order to determine whether cells 42-2-2 through 42-2-6 required excavation. If the samples contained less than 600 mg/kg of lead, the excavation was complete. If one or more samples contained more than 600 mg/kg of lead, the sample was analyzed for TCLP lead and additional soil excavation was was conducted. Based on these criteria, all of the cells bordering 42-2-1 required excavation. In order to reduce the volume of the soils excavated, soil was removed in increments. Some cells required more excavation and some cells required less excavation than originally estimated. Refer to Figure 7A for the actual areas of excavation, including the depth of excavation within each cell, and for the distribution of total lead and TCLP lead in soils during the Remediation RAM. Figure 7B depicts the final horizontal and vertical extent of excavation, as well as the final confirmatory total lead data for the sidewalls and bottom of the excavation. The approximate volumes of material excavated from each cell during this initial phase (September to November 2015) are summarized below.

Cell	Estimated Volume	Actual Approx. Volume	Comments
42-2-1	3,955 cubic yards	3,955 cubic yards	No additional excavation was required.
42-2-2	720 cubic yards	220 cubic yards	Excavation was required on one occasion: (1) 15 feet southwest.
42-2-3	220 cubic yards	305 cubic yards	Excavation was required on two occasions: (1) 5 feet south, (2) 8 feet south.
42-2-4	220 cubic yards	555 cubic yards	Excavation was required on five occasions: (1) 5 feet east, (2) 8 feet east, (3) 8 feet east, (4) 12 feet east, (5) 4 feet south.
42-2-5	450 cubic yards	250 cubic yards	Excavation was required on one occasion: (1) 15 feet northeast.
42-2-6	330 cubic yards	620 cubic yards	Excavation was required on five occasions: (1) 5 feet northwest, (2) 8 feet northwest, (3) 8 feet northwest, (4) 12 feet northwest, (5) 8 feet northwest.
42-2-7	1,500 cubic yards	220 cubic yards	Excavation was required on two occasions: (1) 5 feet north, (2) 5 feet north.

Once the material was excavated and the soil was filtered through the 3”-minus screen, the soil was separated into eight stockpiles. In order to reduce the soil’s lead leachability, soils with TCLP lead levels greater than 5 mg/l were treated. All of the cells, and therefore stockpiles, contained TCLP lead levels greater than 5 mg/l and were treated on site. During this monitoring period, thirty-seven soil samples were collected and submitted to the lab to be analyzed for total lead. Fifteen of the samples contained total lead levels greater than 600 mg/kg and were further analyzed for TCLP lead. Refer to Table 3.1 for the soil analytical data or Appendix A of the *Remediation RAM Status Report No. 3, Remedial Monitoring Report No. 3 and Remediation RAM Completion Report* for a copy of the laboratory reports.

The eight soil stockpiles were placed on and covered with 12 mm polyethylene sheeting in the immediate vicinity of the excavation, until treatment was complete. The soil treatment was performed by SSTT using SSTT-CS between September 29 and November 12, 2015. The treatment successfully lowered TCLP lead concentrations to less than 5 mg/l, as documented in Table 3.3. Refer to Appendix A *Remediation RAM Status Report No. 3, Remedial Monitoring Report No. 3 and Remediation RAM Completion Report* for the laboratory results of the treated soil. Because the total lead concentrations were greater than 600 mg/kg, the soils were placed more than 15 feet below grade.

The approximate volumes of each stockpile are summarized below.

Stockpile	Approximate Volume
1A	170 cubic yards
1B	190 cubic yards
2A	280 cubic yards
2B	220 cubic yards
3	400 cubic yards
4	600 cubic yards
5	450 cubic yards
6	110 cubic yards

The stockpiles were placed back into the area of excavation between October 13 and 21, 2015. Prior to backfilling, polyethylene sheeting lined the area of excavation in order to segregate the extent of the treated lead-contaminated soil from the surrounding soils. Polyethylene sheeting was also used to cover the treated lead-contaminated soil. As of November 12, 2015, in total, approximately 2,420 cubic yards of soil were treated in order to reduce TCLP lead concentrations. These treated soils include the 20 cubic yards of coal tar-contaminated soils.

Construction RAM Activities:

On January 8, 2016, as part of the Construction RAM, approximately 968 cubic yards of these soils were re-excavated and placed in the soil repository beneath future Building 4, at elevations between 118 and 125 feet above MSL. The final grade at the Building 4 repository is 141 to 142 feet above MSL, which means the lead-contaminated soils were placed more than 15 feet below final grade. At this point, approximately 1,452 cubic yards of treated soil were still temporarily placed at Lot 42 EP2B.

On May 18, 2016, the 1,452 cubic yards temporarily placed at Lot 42 EP2B were re-excavated and placed in the soil repository beneath the future clubhouse, at elevations between 119 and 127 feet above MSL. The final grade at the future clubhouse is 142 to 143 feet above MSL, which means the lead-contaminated soils were placed more than 15 feet below final grade.

Refer to Figure 4E for the location and elevations of the Building 4 and club-house repositories.

Remediation RAM Activities (Resumed):

Excavation at Lot 42 EP2B resumed during the period May 19 to June 21, 2016, when approximately 680 cubic yards of material were excavated. The material consisted of fill comprised mostly of soil, but included other material such as rock, concrete and rebar. The locations and depths that were excavated were based on the results of confirmatory sidewall and bottom sampling from the initial excavation, showing levels of total lead greater than 600 mg/kg. During this second round of excavation, new sidewall and bottom samples were collected after each phase of excavation for analysis of total lead. If a sample contained less than 600 mg/kg of lead, the excavation was complete in that area. If the sample contained more than 600 mg/kg of lead, the soil sample was further analyzed for TCLP lead and additional soil was excavated in that area. On May 30, 2016, US Ecology, Inc. (US Ecology) of Wrentham, Massachusetts took over the processing and treatment of lead-contaminated soils. The approximate volumes of material excavated from each cell during the second round of excavation are summarized below.

Cell	Actual Approximate Volume	Comments
42-2-1	--	No additional excavation was required.
42-2-2	64 cubic yards	Additional excavation was required on one occasion: (1) 3 feet bottom.
42-2-3	--	No additional excavation was required.
42-2-4	--	No additional excavation was required.
42-2-5	153 cubic yards	Additional excavation was required on two occasions (1) 5 feet southeast, (2) 5 feet bottom
42-2-6	346 cubic yards	Additional excavation was required on two occasions (1) 2 feet bottom (2) 1 foot bottom
42-2-7	117 cubic yards	Additional excavation was required on two occasions (1) 5 feet north (2) 3 feet bottom

During this period, twenty-five confirmatory soil samples were collected and submitted to the lab to be analyzed for total lead. Eleven of the samples contained total lead levels greater than 600 mg/kg and were further analyzed for TCLP lead. A white-brick material was present approximately 6 feet below grade throughout Lot 42 EP2B. A sample of the material was collected and had concentrations of total lead within 600 mg/kg. It is possible that lead leached from the white-brick material overtime throughout the soil underneath. Once the material was excavated, the soil was filtered through a 3”-minus screen, resulting in approximately 480 cubic yards of processed material requiring treatment. The processed soils were placed in four stockpiles in the immediate vicinity of the excavation. Each stockpile was placed on and covered with 12 mm polyethylene sheeting, until treatment was complete. Total lead and TCLP lead analytical data are provided in Table 3.1. The locations of confirmatory sampling locations collected during the course of excavation at Lot 42 EP2B and the total lead and TCLP lead data for these samples are depicted on Figure 7A. Figure 7B provides the total lead levels of final confirmatory sidewall and bottom samples. The approximate volumes of each screened and treated stockpile are summarized below.

Stockpile	Approximate Volume
1	65 cubic yards
2	235 cubic yards
3	111 cubic yards
4	70 cubic yards

In order to reduce the soil’s lead leachability, soils with TCLP lead levels greater than 5 mg/l were treated. All of the cells that required excavation during round 2 contained TCLP lead levels greater than 5 mg/l and were treated on Site. The soils were treated with Portland cement by US Ecology on June 13, 14 and 17, 2016 and by GEC on July 18, 2016. The treatment successfully lowered the TLCP lead concentrations less than 5 mg/l, as documented in Table 3.4. The laboratory reports are provided in Appendix A of the *Remediation RAM Status Report No. 3, Remediation Monitoring Report no. 3 and Remediation RAM Completion Report*.

Construction RAM Activities (Resumed):

The treated soils (approximately 480 cubic yards) from the second round of excavation were placed in a soil repository located in the future location of Building 3 parking lot, at elevations between 118 and 121 feet above MSL. The final grade of the Building 3 parking lot is between 136 and 137 feet above MSL. As a result, these soil repository is located more than 15 feet below final grade. Refer to Figure 4E for the location of the Building 3 parking lot soil repository.

Summary of Remediation RAM and Construction RAM Activities:

Between September 14, 2015 and June 21, 2016, approximately 2,900 cubic yards of processed material was excavated from Lot 42 EP2B, treated to reduce TCLP lead to less than 5 mg/l, and placed more than 15 feet below final grade in on-Site soil repositories. This work was conducted in two phases. In total, sixty-two confirmatory samples were collected and submitted to the laboratory for analysis of total lead. Thirty-three soil samples are representative of final post-remedial conditions. The lead-contaminated soils were re-used on Site and placed in soil repositories such as the future location of Building 4, the future location of the clubhouse, and the future location of Building 3's parking lot. Refer to Section 6.1 for more information on the different soil repositories. Refer to Figure 4E for the locations of the Lot 42 EP2B soils within soil repositories.

4.4 Status of Lot 42 EP3A

This area was relabeled RGP-7 to distinguish it from other areas with coal tar and coal tar-contaminated soils. Refer to Section 4.13 for information on remedial activities conducted at RGP-7 under both the Remediation and Construction RAMs.

4.5 Status of Lot 42 EP3C

Construction RAM:

For original exposure point Lot 42 EP3C, the PAH-contaminated soils were excavated during the Construction RAM and were either buried at depths more than 15 feet below the new final grade or transported off-site. Lot 42 EP3C was identified based on the results of soil analyses for one boring. Lot 42 EP3C was divided into nine areas, identified as 42-4-1 through 42-4-9, surrounding the area of known PAH contamination, for two reasons: (1) to allow access to soils of this area in a planned sequence, such that remedial excavation in this area did not significantly delay construction-related soil processing in this area; and (2) to provide discrete areas for determining the extent of the PAH-contaminated soils within Lot 42 EP3C. Whenever confirmatory sidewall and bottom sampling indicated the presence of elevated levels of PAHs in the soils, further excavation was conducted. Refer to Figures 3A and 3B for the location of Lot 42 EP3C and to Figure 8 for the nine Lot 42 EP3C excavation areas (cells).

Excavation and Confirmatory Sampling: On March 31, 2016, approximately 250 cubic yards of soils were excavated from Lot 42 EP3C, specifically area 42-4-2, and placed in three separate stockpiles atop polyethylene sheeting at Lot 42 EP1A. On the same day, two confirmatory sidewall samples (42-4-W and 42-4-2S), a confirmatory bottom sample (42-4-2B), and one composite soil sample from each stockpile were collected. These soil samples were submitted to Con-Test for analysis of PAHs via USEPA Method 8270. The south confirmatory sidewall and bottom samples contained elevated levels of carcinogenic PAHs greater than the Site-specific clean-up standards, and indicated that excavation had to proceed to the south (into 42-4-1) and downward. The levels of PAHs in 42-4-2W were below Site-specific clean-up levels, and excavation into 42-4-6 may not be necessary, if the levels of PAHs on the south side of 42-4-6 were acceptable. One of the three stockpiles contained

levels of PAHs similar to those of the confirmatory samples. The 100 cubic yard stockpile (identified as 42-4-2-SP) was separated and eventually buried at depths more than 15 feet below final grade within the Clubhouse soil repository. The other two stockpiles totaling 150 cubic yards contained levels of PAHs below clean-up standards and were processed with soils excavated elsewhere at the Site for use as structural fill and contouring.

On April 8, 2016 a test pit was excavated along the southern boundary of area 42-4-6 and soil sample was collected (42-4-6S), in order to determine whether excavation was needed in 42-4-6. This soil sample was submitted to Con-Test for analysis of PAHs via USEPA Method 8270. The levels of PAHs on the south side of 42-4-6 were determined to be acceptable and, therefore, no excavation was conducted in area 42-4-6.

On April 19, 2016 a test pit was advanced on the south side of 42-4-7 and a soil sample was collected for analysis of sidewall sample was collected along the north boundary of area 42-4-7 and was submitted to Con-Test for analysis of PAHs via USEPA Method 8270D. The levels of PAHs in this sample were low, which indicated that 42-4-7 may be outside the PAH-contaminated area of Lot 42 EP3C. Excavation into 42-4-7 may not be necessary if the PAH levels along the east wall of 42-4-2 / west wall bordering 42-4-7 are acceptable. This determination is made later, below.

On May 11, 2016, approximately 440 cubic yards of soils were excavated from Lot 42 EP3C, specifically areas 42-4-1 and 42-4-5, and placed in a stockpile atop polyethylene sheeting at Lot 37 EP2. On the same day, three confirmatory sidewall samples (42-4-5W, 42-4-1-5-S, 42-4-1-E), one confirmatory bottom sample (42-4-1E), and one composite soil sample from the stockpile were collected. These samples were submitted to Con-Test for analysis of PAHs via USEPA Method 8270. The levels of PAHs in the sidewall samples were determined to be acceptable and excavation did not need to extend into areas 42-4-3, 42-4-4, and 42-4-9. The bottom sample, located 11 feet below original grade, had acceptable levels of PAHs and deeper excavation at 42-4-1 and 42-4-5 was determined not to be necessary. The stockpile soil sample had levels of PAHs significantly less than detected in the original soil sample used to identify the original Lot 42 EP3C exposure point. Since the soil stockpile includes the soils from the original 42-4-2 sample, the stockpile soils were transported off-Site.

On May 17, 2016, a sidewall sample was collected along the north boundary of area 42-4-7 and was submitted to Con-Test for analysis of PAHs via USEPA Method 8270D. The sidewall sample was determined to have acceptable levels of PAHs and no excavation into area 42-4-7 is necessary.

On June 8, 2016, approximately 100 cubic yards of soils were excavated from Lot 42 EP3C, specifically the bottom of area 42-4-2, and placed in a stockpile atop polyethylene sheeting at Lot 37 EP2. Originally, the 42-4-2 excavation extended to 15 feet below original grade (It was originally measured to extend to 11 feet below original grade, but after measuring the excavation with a GPS, it was determined the area extended to 15 feet below original grade). The excavation conducted this day extended the excavation hole 3 feet deeper to a final depth of 18 feet below original grade. On the same day, one confirmatory bottom sample (42-4-2B2) was collected and submitted to Con-test for analysis of semi-volatile organic compounds (SVOCs) via USEPA Method 8270. The bottom sample had acceptable levels of PAHs and no further excavation was conducted.

The confirmatory soil samples representing final conditions at Lot 42 EP3C are 42-4-2B2, 42-4-2W, 42-4-7W, 42-4-6S, 42-4-5W, 42-4-1-5-S, 42-4-1E and 42-4-1-5B. 42-4-2S and 42-4-2B were eliminated as final confirmatory samples because further excavation occurred at these locations. 42-4-7S was eliminated as a final confirmatory sample, because it is located outside the PAH-contaminated area of Lot 42 EP3C. Refer to Figure 8 for the final area of excavation and sample locations. Refer to Table 4.1 for a summary of the confirmatory and stockpile analytical data.

Risk Assessment(s): A location-specific risk assessment was conducted for Lot 42 EP3C using MassDEP's Resident Soil ShortForm for both the 0-3 and 0-6/0-15 foot intervals. The analytical data

for the final confirmatory soil samples were evaluated to determine the appropriate method to derive exposure point concentrations for each PAH, as documented in Table 4.2. For all PAHs, except benzo(a)pyrene, the mean concentrations were identified as the appropriately conservative exposure point concentrations. For benzo(a)pyrene, because of the variability of detected levels relative to its toxicity, the 95th percentile upper confidence limit on the mean. The calculation of the exposure point concentrations is provided in Table 4.3.

The original risk assessment for Lot 42 EP3C included exposure point concentrations of original exposure point Lot 42 EP3B for certain non-PAH contaminants of concern, because Lot 42 EP3C is relatively small, is contiguous with Lot 42 EP3B had minimal data for the non-PAH contaminants of concern. No new data is available for these non-PAH contaminants of concern and, therefore, the original exposure point concentrations for Lot 42 EP3B / Lot 42 EP3C were retained for the following contaminants of concern: C9-C18 aliphatic hydrocarbons, C19-C36 aliphatic hydrocarbons, C11-C22 aromatic hydrocarbons, PCBs, barium, beryllium, nickel, vanadium and benzene.

The maximum calculated risk estimates (considering the 0-3 and 0-6/0-15 foot intervals) for a resident at Lot 42 EP3C (post-remediation) are summarized and compared to the MCP's non-cancer and cancer risk limits in the table below. Based on these results, No Significant Risk of harm has been achieved for the soils of Lot 42 EP3C. The Resident Soil ShortForms for Lot 42 EP3C are provided in Appendix C of the *Construction RAM Status Report No. 2*.

Risk Type	Risk Estimate	MCP Risk Limit	Significant Risk?
Cancer	4.9E-6	1E-5	No
Non-cancer: Subchronic	0.50	1	No
Non-cancer: Chronic	0.25	1	No

Disposition of Excavated Soils: Approximately 790 cubic yards of soils were excavated from Lot 42 EP3C (initial 250 cubic yards from cell 42-4-2; 440 cubic yards from cells 42-4-1 and 42-4-5; and another 100 cubic yards from bottom of cell 42-4-2). Approximately 150 cubic yards from two of the three stockpiles of the original excavation of 42-4-2 did not have elevated levels of PAHs. The remaining stockpile (identified as 42-4-2-SP) excavated from area 42-4-2 (100 cubic yards) had elevated levels of PAHs, and was placed in a soil repository beneath the future clubhouse, between elevations of 124 and 126 feet above MSL. The final grade will be 142 to 143 feet above MSL. The stockpiles from areas 42-4-1 and 42-4-5 (440 cubic yards) and the bottom of 42-4-2 (100 cubic yards) were screened to 3-inch minus, resulting in 260 cubic yards of PAH-contaminated soils. These soils were transported off-site under the Remediation RAM to ESMI Loudon, of Loudon, New Hampshire for treatment. Refer to Section 6.1 for more details. Refer to Figure 4E for the location of the clubhouse repository.

Current Status: The results of the location-specific risk assessment using sidewall and bottom samples for Lot 42 EP3C indicates the achievement of No Significant Risk of harm for residents. The excavation of Lot 42 EP3C is complete. Approximately 100 cubic yards of soils excavated from Lot 42 EP3C, area 42-4-2 were re-used on-Site within a soil repository in the location of the future clubhouse. The contents of this soil repository will be located more than 15 feet below final grade. Approximately 260 cubic yards of screened soils excavated from Lot 42 EP3C areas 42-4-1, 42-4-2, and 42-4-5 were transported off-Site to ESMI Loudon, of Loudon, New Hampshire for treatment.

4.6 Status of RGP-1 (SB-1)

Construction RAM (with some Off-Site Soil Disposition under Remediation RAM):

Discovery and Initial Sampling: On November 4, 2015, soils appearing to be contaminated with ash and possibly diesel fuel were discovered approximately 5 to 6 feet below grade on the eastern wall of the sedimentation basin, approximately 25 feet west of the drain manhole, within original exposure point Lot 42 EP3B. These soils appear to be the result of a trash fire that was accelerated with a petroleum product, possibly diesel fuel. This event likely occurred during Site filling operations in the 1970's. A sample, designated SB-1, was collected on the day of discovery and submitted to Con-Test for analysis of EPH and PAHs via MassDEP's Method. This sample contained EPH aliphatic and aromatic subsets ranging between 110 and 750 mg/kg. Elevated levels of carcinogenic PAHs were also detected, including 11 mg/kg benzo(a)pyrene, 12 mg/kg benzo(a)anthracene, 12 mg/kg benzo(b)fluoranthene and 13 mg/kg chrysene. Each of these PAHs was detected at a level greater than its Site-specific clean-up standard specified in Section 2.1. Refer to Table 5.1 for a summary of the analytical data. Refer to Figure 3A for the location of Lot 42 EP3B, and to Figure 3C for the location of RGP-1.

Excavation, Confirmatory Testing and Disposal Criteria Testing: On November 18, 2015, approximately 80 cubic yards of soil was excavated from this area and placed on top of the polyethylene liner located on top of the treated lead-contaminated soils located at Lot 37 EP1. On November 19, 2015, four sidewall and one bottom sample was collected and submitted to Con-Test for analysis of EPH and PAHs via MassDEP's Method. Benzo(a)pyrene was detected in these samples at levels ranging between 2.7 and 5.5 mg/kg, above its Site-specific clean-up standard of 2 mg/kg.

On December 7, 2015, an additional 160 cubic yards of soil was excavated from this area and added to the stockpile created earlier. On December 7, 2015, four sidewall and one bottom sample was collected and submitted to Con-Test for analysis of PAHs via USEPA Method 8270D. The levels of PAHs in the sidewall samples were determined to be acceptable, but the bottom sample still contained elevated levels of PAHs.

On January 7, 2016, an additional 110 cubic yards of soil was excavated from the bottom of the excavation. On the same day, a bottom soil sample was collected and analyzed for EPH and PAHs via MassDEP's Method and for PAHs via USEPA Method 8270D. As demonstrated below, the levels of PAHs in the soils were determined to be acceptable and no further excavation was needed.

The final area of excavation was a rectangular depression approximately 46 feet long, 32 feet wide, and 5 feet deep. A total of 350 cubic yards of soil were excavated from RGP-1. Refer to Table 5.1 for a summary of the analytical data and to Figure 9 for the excavation dimensions and confirmatory sampling locations for RGP-1.

Final Sidewall and Bottom Confirmatory Sampling Data / Exposure Point Concentrations: The final sidewall samples were collected on December 7, 2015 and the final bottom sample was collected on January 7, 2016. The data from these samples were used to derive exposure point concentrations for PAHs. Because no EPH data was collected during the December 7, 2015 sampling round, the EPH data from the November 19, 2015 and January 7, 2016 sampling rounds were used to derive exposure point concentrations. Given the small size of the excavation, the mean concentration was calculated as the exposure point concentration. For a given sample, if a specific PAH and EPH was not detected, one-half the detection limit was used to calculate the mean concentration. Refer to Table 5.2 for the calculation of exposure point concentrations, which are used in the risk assessment, below.

Risk Assessment(s): A location-specific risk assessment was calculated for RGP-1 using MassDEP's Resident Soil ShortForm. The mean PAH and EPH concentrations in soils, provided in Table 5.2, were used as exposure point concentrations. RGP-1 is located within exposure point Lot 42

EP3B; therefore, for contaminants of concern with no new analytical data, the exposure point concentrations for Lot 42 EP3B were used in this risk assessment. The Resident Soil ShortForm distinguishes between those exposure point concentrations derived for RGP-1 and those adopted from Lot 42 EP3B.

The calculated risk estimates for a resident at RGP-1 are summarized and compared to the MCP's non-cancer and cancer risk limits in the table below. Based on these results, No Significant Risk of harm has been achieved for the soils of RGP-1. The Resident Soil ShortForm for RGP-1 is provided in Appendix D of the February 2016 *Construction RAM Status Report*.

Risk Type	Risk Estimate	MCP Risk Limit	Significant Risk?
Cancer	8.4E-6	1E-5	No
Non-cancer: Subchronic	0.43	1	No
Non-cancer: Chronic	0.25	1	No

Disposition of Excavated Soils: Approximately 240 cubic yards of stockpiled soils from the first two rounds of RGP-1 excavation were placed at an elevation between 118 and 125 feet above MSL, which will be within the southern overdig of Building 4. Approximately 110 cubic yards of soils removed during the third round of RGP-1 excavation were stockpiled on polyethylene liner atop the treated lead-contaminated soils of Lot 42 EP2B. Approximately 55 cubic yards of stockpiled soils were placed at an elevation between 124 and 126 feet above MSL, which will be beneath the future location of the clubhouse. Due to insufficient capacity, approximately 55 cubic yards of stockpiled soils were transported off-site by ESMI to ESMI Loudon, of Loudon, New Hampshire for treatment. The off-site transport of RGP-1 soils was done under the Remediation RAM. Refer to Section 6.1 for additional information.

Current Status: The location-specific risk assessment using sidewall and bottom samples for RGP-1 indicates the achievement of No Significant Risk of harm for residents. The excavation of RGP-1 is complete. Approximately 240 cubic yards of soils excavated from RGP-1 were re-used in an on-Site repository at depth within the overdig of the future location of Building 4. Approximately 55 cubic yards of soils stockpiled at Lot 42 EP2B were re-used in a second on-Site repository at depth beneath the future location of the clubhouse. Approximately 55 cubic yards were transported off-Site by ESMI to ESMI Loudon, of Loudon, New Hampshire for treatment. Refer to Figure 4E for the locations of RGP-1 soils in the soil repositories. Remedial activities for RGP-1 are complete.

4.7 Status of RGP-2 (PL-2)

Construction RAM:

Discovery and Initial Sampling: On November 6, 2015, dark, odorous soils were discovered during excavation in original exposure point Lot 37 EP2. These soils were designated PL-1 and the area where they were found was designated RGP-2. Refer to Figure 3C for the location of RGP-2. These soils, located at or near the surface, contain a persistent, pungent organic odor akin to organic decomposition. The PL-1 soils are not located in the areas where elevated levels of lead contamination exists or in an area with coal tar contamination. These two conditions exist elsewhere on Lot 37 and/or Lot 42.

On the day of discovery, a test pit was advanced in the middle of the PL-1 soils and a composited soil sample (designated PL-1) was collected for analysis. This test pit had approximate dimensions of 10 feet long by 4 feet wide. This soil sample was submitted to Con-Test for analysis of SVOCs via USEPA Method 8270D, PCBs via USEPA Method 8082A, EPH including PAHs via MassDEP's Method, and MA14 metals via USEPA Methods 6010C/7471B. On November 9, 2016,

another sample was collected from PL-1 soils and submitted to Con-Test for analysis of VOCs via USEPA Method 8260C.

The PL-1 soils contained EPH aliphatic and aromatic subsets ranging between <12 and 190 mg/kg. The carcinogenic PAH (up to 7.5 mg/kg benzo(a)pyrene) was detected, at a level greater than its Site-specific clean-up standard (2 mg/kg) specified in Section 2.1. Refer to Table 6.1 for a summary of the analytical data. Refer to Figure 3A for the location of Lot 37 EP2 and to Figure 3C for the location of RGP-2.

On December 15, 2015, the first RAM Plan Modification was submitted for the Construction RAM to allow for the excavation and off-Site disposition of up to 100 cubic yards of odorous soils.

Excavation, Confirmatory Sampling and Disposal Criteria Testing: Due to the strong, persistent, pungent odor, a decision was made to live load these soils during excavation. On December 18, 2015, approximately 80 cubic yards (approximately 105 tons) of soils were excavated from RPG-2 and loaded directly onto a dump truck.

On December 18, 2015, four confirmatory soil samples were collected from the sidewalls and bottom of the excavation, and submitted to Con-Test for analysis of PAHs via USEPA Method 8270D and EPH and PAHs via MassDEP's Method. The maximum concentration of benzo(a)pyrene detected in the confirmatory soil samples was 0.79 mg/kg, which is less than the Site-specific clean-up standard of 2 mg/kg provided in Section 2.1. Refer to Table 6.1 for a summary of analytical data for the confirmatory soil samples, and to Figure 10 for the excavation dimensions and confirmatory sampling locations for RGP-2. The final area of excavation was a trapezoidal depression that had a base length of approximately 80 feet and ranged from 2 feet to 5 feet in depth.

Final Sidewall and Bottom Confirmatory Sampling / Exposure Point Concentrations: The final sidewall and bottom samples were collected on December 18, 2015. The data from these samples were used to derive the mean concentration for PAHs and EPH. For a given sample, if a specific PAH or EPH was not detected, one-half the detection limit was used to calculate the mean concentration. For each PAH and EPH subset, the mean concentration was identified as the exposure point concentration. Because no VOC, PCB, or metal, data was collected during the December 18, 2015 sampling round, the data from the November 6, 2015 sampling round for the PL-1 soils were used to derive exposure point concentrations. For each of these compounds (i.e., acetone, methyl ethyl ketone, barium, beryllium, cadmium, nickel, vanadium and PCBs), the concentration detected was identified as the exposure point concentration. Refer to Table 6.2 for the calculation of exposure point concentrations, which are used in the risk assessment, below.

Risk Assessment(s): A location-specific risk assessment was conducted for RGP-2 using MassDEP's Resident Soil ShortForm. The mean PAH and EPH concentrations in soils, provided in Table 6.2, were used as exposure point concentrations. Although RGP-2 is located within original exposure point Lot 37 EP2, none of its exposure point concentrations were used because metal, PCB and VOC analytical data exists for RGP-2. None of the EPH, PAH or lead exposure point concentrations exceeded the Site-specific clean-up standards specified in Section 2.1. However, four new contaminants of concern were introduced for RGP-2 (versus those of Lot 37 EP2). The new contaminants of concern are acetone, beryllium, methyl ethyl ketone and PCBs. All exposure point concentrations are derived in Table 6.2.

The calculated risk estimates for a resident at RGP-2 are summarized and compared to the MCP's non-cancer and cancer risk limits in the table below. Based on these results, No Significant Risk of harm has been achieved for the soils of RGP-2. The Resident Soil ShortForm for RGP-2 is provided in Appendix E of the February 2016 *Construction RAM Status Report*.

Risk Type	Risk Estimate	MCP Risk Limit	Significant Risk?
Cancer	1.0E-6	1E-5	No
Non-cancer: Subchronic	0.21	1	No
Non-cancer: Chronic	0.11	1	No

Disposition of Excavated Soils: Approximately 80 cubic yards of soils from RGP-2 were transported by Charter Environmental, Inc. under a Bill of Lading to Glenview Landfill, in Chelmsford, Massachusetts. The off-site disposition of these soils were done under the Construction RAM. Refer to Section 6.1 for additional information on the off-Site disposition of these soils.

Current Status: The location-specific risk assessment using sidewall and bottom samples for RGP-2 indicates the achievement of No Significant Risk of harm for residents. The excavation of RGP-2 is complete. Approximately 80 cubic yards of soils excavated from RGP-2 were transported to Glenview Landfill, in Chelmsford, MA, for re-use as landfill cover. The volume excavated and transported off-site is less than the estimated volume (100 cubic yards) provided in the first RAM Plan Modification, submitted on December 15, 2015.

4.8 Status of RGP-3 (SB-2)

Remediation RAM:

Discovery and Initial Sampling: Oil-contaminated soils were discovered on November 12, 2015, west of the sedimentation basin, under the Construction RAM. A sample, designated SB-2, was collected from this material on the same day and submitted to Con-Test for analysis of VOCs via USEPA Method 8260C, EPH and PAHs via MassDEP's Method, SVOCs via USEPA Method 8270D, PCBs via USEPA Method 8082A, and MA14 metals via USEPA Methods 6010C/7471B.

This sample contained elevated EPH aliphatic and aromatic subsets ranging between 1,200 and 5,100 mg/kg. Elevated levels of carcinogenic PAHs were also detected, including 22 mg/kg benzo(a)pyrene, 29 mg/kg benzo(a)anthracene, 27 mg/kg benzo(b)fluoranthene, 10 mg/kg benzo(k)fluoranthene, 28 mg/kg chrysene, 3.5 mg/kg dibenzo(a,h)anthracene and 13 mg/kg indeno(1,2,3-c,d)pyrene. Each of these PAHs was detected at a level greater than its Site-specific clean-up standard specified in Section 2.1. Total PCBs were detected at 4.6 mg/kg. RGP-3 was later found to be part of a larger contiguous area of coal tar contamination that includes RGP-3, RGP-4, RGP-5 and RGP-7. Refer to Table 7 for a summary of the analytical data for RGP-3. RGP-3 is located in original exposure points Lot 42 EP3A and EP3B. Refer to Figure 3A for the location of Lot 42 EP3A and Lot 42 EP3B and to Figure 3C for the location of RGP-3.

Excavation, Confirmatory Sampling and Disposal Criteria Testing: On November 20, 2015, approximately 86 cubic yards of soils were excavated from RGP-3, and placed in a stockpile atop polyethylene sheeting at Lot 42 EP1A. It was located behind the work trailers and was surrounded by orange plastic fencing. On the same day, five confirmatory sidewall and bottom samples were collected and one soil sample from the stockpile was collected and submitted to Con-Test for analysis of EPH and PAHs via MassDEP's method and PCBs via USEPA Method 8082A with Soxhlet extraction. The confirmatory sidewall and bottom samples contained EPH aliphatic and aromatic subsets ranging between 15 and 740 mg/kg. Elevated levels of carcinogenic PAHs were at levels greater than the Site-specific clean-up standards specified in Section 2.0. Total PCBs were detected levels ranging from <0.11 to 0.48 mg/kg. The stockpile contained levels of EPH and PAHs that were similar to those of the confirmatory samples but less than that of the original SB-2 sample. Despite the detection of 4.6 mg/kg PCBs in the original SB-2 sample, the stockpile contained no detectable levels of PCBs, with a detection limit of 0.11 mg/kg. The stockpile sample was composite of discrete

soil samples collected from the stockpile. To confirm this finding, a second composited stockpile soil sample was collected on December 3, 2015, and submitted to Con-Test for analysis of PCBs via USEPA Method 8082A with Soxhlet extraction. Again, no PCBs were detected in this second stockpile sample, with a detection limit of 0.11 mg/kg. Refer to Table 7 for a summary of the RGP-3 analytical data. The stockpile was moved twice in order to provide space for construction activity. In March, the stockpile was placed atop polyethylene at the southwestern area of Lot 42 EP2A. In May, the stockpile was placed atop polyethylene at the southeastern area of Lot 42 EP1B. Refer to Figure 11 for the excavation dimensions and confirmatory sampling locations for RGP-3. The area of excavation was a right rectangle depression that was 40 feet long, 50 feet wide, and 4 feet deep. The remainder of excavation of RGP-3 was conducted as part of RGP-345. Refer to Section 4.11 for additional details.

Final Sidewall and Bottom Confirmatory Sampling / Exposure Point Concentrations: Refer to Section 4.11 for a description of the final confirmatory sampling and derivation of exposure point concentrations.

Risk Assessment(s): The risk assessment was conducted as part of RGP-345, as documented in Section 4.11.

Disposition of Excavated Soils: Based on the results of the disposal criteria testing of stockpile SB-2-SP and SB-2-SP2, the excavated soils of RGP-3 were determined to be suitable for on-Site re-use at depth (i.e., more than 15 feet below final grade). Approximately 86 cubic yards of stockpiled soils were placed in the soil repository located beneath the future parking lot of future Building 3, at elevation between 119 and 120 feet above MSL. Refer to Section 6.1 for additional information.

Current Status: RGP-3 is located within the larger coal tar contaminated area identified as RGP-345. In November 2015, approximately 86 cubic yards of PAH-contaminated soils were excavated from RGP-3, and were later re-used on-Site at depth beneath the future parking lot of future Building 3. Refer to Figure 4E for the location of the soil repository containing RGP-3 soils. Additional excavation of RGP-3 was conducted as part of RGP-345. Refer to Section 4.11 for more details.

4.9 Status of RGP-4

Remediation RAM:

Discovery and Initial Sampling: On November 20, 2015, during excavation of RGP-3, approximately 1 cubic yard of coal tar was discovered. This area is identified as RGP-4. The excavation and off-Site transport of the soils of RGP-4 was conducted as part of the Remediation RAM Plan. Although part of the Remediation RAM, the excavation and off-Site transport of the RGP-4 soils is described below.

The coal tar could not be removed on November 20, because it was located 8 to 10 feet below grade and a soil stockpile was located over the area. Soil sampling and analysis was not conducted until soils were excavated. RGP-4 is located within the original exposure points Lot 42 EP3A and Lot 42 EP3B. Refer to Figure 3A for the locations of Lot 42 EP3A and Lot 42 EP3B, and to Figure 3C for the location of RGP-4.

Excavation, Confirmatory Sampling and Disposal Criteria Testing: During December 8 to 10, 14 and 15, 2015, approximately 326 tons of soil was excavated from RGP-4. These soils were stockpiled on polyethylene sheeting within the partially constructed sedimentation basin (immediately next to the excavation) pending disposal criteria testing and approval from the off-site receiving facility. On December 15 and 17, 2015, two soil samples were collected from the RGP-4 stockpile for analysis of disposal criteria: (1) VOCs via USEPA Method 8260C; (2) SVOCs via USEPA Method

8270D; (3) PCBs via USEPA Method 8082A with Soxhlet extraction; (4) MA14 metals via USEPA method 6010C/7471B; (5) total petroleum hydrocarbons (TPH) via USEPA Method 8100 Modified; (6) Toxicity Characteristic Leaching Procedure (TCLP) lead via USEPA Methods 1311 / 6010C; (7) TCLP SVOCs via USEPA Method 8270D/1311; (8) pH via USEPA Method 9045C; (9) ignitability via USEPA Method 1030; (10) flashpoint via USEPA Method 1010A; (11) reactive cyanide via USEPA Method 9014; and (12) reactive sulfide via USEPA Method 9030A. Very high levels of individual PAHs (up to 18,000 mg/kg), TPH (up to 290,000 mg/kg), naphthalene (up to 25,000 mg/kg) were detected. Additional excavation of RGP-4 was conducted as part of RGP-345; therefore, confirmatory sampling was conducted under RGP-345 (as documented in Section 4.11). Refer to Table 8 for a summary of the analytical data for RGP-4, and to Figure 12 for a plan showing the dimensions of the original RGP-4 excavation. The final area of excavation was a square depression approximately 60 feet long, 15 feet wide, and 4 feet deep.

Final Sidewall and Bottom Confirmatory Sampling / Exposure Point Concentrations: Additional excavation of this area was conducted as part of RGP-345. Refer to Section 4.11 for more details.

Risk Assessment(s): Refer to Section 4.11 for information on the risk assessment for RGP-345.

Disposition of Excavated Soils: On January 11 and 12, 2016, most of the stockpiled soil (approximately 310 tons) for RGP-4 was transported by ESMI under a Bill of Lading to ESMI Loudon, of Loudon, New Hampshire for treatment. During the period January 29, 2016 to February 2, 2016, the remainder of the RGP-4 soils (approximately 15 tons) was combined with the RGP-345 soils and transported by Goulet Trucking, Inc. under a Uniform Hazardous Waste Manifest to ESMI Loudon, of Loudon, New Hampshire. The transport of this material was conducted as part of the Remediation RAM. Refer to Section 6.1 for more information on the off-Site transport of these soils.

Current Status: Approximately 325 tons of coal tar-contaminated soils were excavated from RGP-4, and temporarily stockpiled on polyethylene sheeting in the partially constructed sedimentation basin. These soils were transported off-Site to ESMI Loudon, of Loudon, New Hampshire, for treatment. Additional excavation of RGP-4 was conducted as part of RGP-345. Refer to Section 4.11 for more details.

4.10 Status of RGP-5

Remediation RAM:

Discovery and Initial Sampling: On November 24, 2015, coal tar contamination was observed approximately 5 to 8 feet below grade, approximately 40 feet southeast of RGP-4. No initial sampling of this material was conducted at the time of discovery. RGP-5 is located in original exposure points Lot 42 EP3A and Lot 42 EP3B. Refer to Figure 3A for the locations of Lot 42 EP3A and Lot 42 EP3B, and to Figure 3C for the location of RGP-5. Although part of the Remediation RAM, the status of the RGP-5 soils is described below.

Excavation and Disposal Criteria Testing: No separate excavation was done for RGP-5. Excavation of this area was conducted for RGP-3, RGP-4 and RGP-5 combined. This combined area is identified as RGP-345. Refer to Section 4.11 for details on the excavation, confirmatory sampling and disposal criteria testing of RGP-345.

Final Sidewall and Bottom Confirmatory Sampling / Exposure Point Concentrations: Refer to Section 4.11.

Risk Assessment(s): Refer to Section 4.11.

Disposition of Excavated Soils: Refer to Section 4.11.

Current Status: Refer to Section 4.11.

4.11 Status of RGP-345

Remediation RAM:

Discovery and Initial Sampling: RGP-345 is a contiguous area of coal tar contamination that includes RGP-3, RGP-4 and RGP-5, and also encompasses the lesser-contaminated areas of RGP-6 and RGP-3456. It is also adjacent to the original coal tar contaminated area, which is called both RGP-7 and original exposure point Lot 42 EP3A. The excavation and off-Site transport of the soils of RGP-345 was conducted as part of the Remediation RAM Plan. Although part of the Remediation RAM, the excavation and off-Site transport of the RGP-345 soils is described below. Refer to Figure 3A for the location of Lot 42 EP3A and for Figure 3C for the locations of RGP-345, RGP-3, RGP-4, RGP-5, RGP-6, RGP-3456 and RGP-7.

After initial excavation of RGP-3 and RGP-4, RGP-345 was excavated as a single area, because soils of this area are contaminated with coal tar. On January 7, 2016, six test pits were excavated throughout RGP-3, RGP-4 and RGP-5 in order to estimate the extent of coal tar contamination. Coal tar was identified in four out of six test pits. A composite sample was collected of the four test pits. This soil sample was submitted to Con-Test for analysis of disposal criteria, specifically: (1) VOCs via USEPA Method 8260C; (2) PAHs via USEPA Method 8270D; (3) PCBs via USEPA Method 8082A; (4) MA14 metals via USEPA method 6010C/7471B; (5) total petroleum hydrocarbons (TPH) via USEPA Method 8100 Modified; (6) specific conductance via Method 2510B; (7) pH via USEPA Method 9045C; (8) ignitability via USEPA Method 1030; (9) flashpoint via USEPA Method 1010A; (10) reactive cyanide via USEPA Method 9014; and (11) reactive sulfide via USEPA Method 9030A. Refer to Table 9.1 for a summary of the disposal criteria analytical data.

Excavation, Confirmatory Sampling and Disposal Criteria Testing: Soil excavation of RGP-345 occurred during the period January 14 to August 5, 2016. During this period, approximately 23 composite soil samples were collected for disposal criteria testing. Refer to Table 9.1 for a summary of the disposal criteria analytical data.

On January 14 and 15, 2016, approximately 740 cubic yards of soil were excavated from this area, and temporarily placed as three stockpiles on polyethylene sheeting located on Lot 37. These stockpiles were identified as SP-1, SP-2 and SP-3 and consisted of approximately 253, 186 and 300 cubic yards of coal tar-contaminated soil, respectively. SP-1 was stockpiled in the southeast corner of Lot 37, southwest of future Building 5, south of future Building 4 and north of the chain link fence; it is the east-most stockpile. SP-2 was stockpiled immediately west of SP-1. SP-3 was stockpiled immediately west of SP-2.

On January 14, 2016, two composited soil samples were collected, one from each stockpile SP-1 and SP-2. On January 15, 2016, a third composited soil sample was collected from stockpile SP-3. These soil samples were submitted to Con-Test for analysis of the following disposal criteria: (1) VOCs via USEPA Method 8260C; (2) SVOCs via USEPA Method 8270D; (3) PCBs via USEPA Method 8082A; (4) MA14 metals via USEPA method 6010C/7471B; (5) total petroleum hydrocarbons (TPH) via USEPA Method 8100 Modified; (6) specific conductance via Method 2510B; (7) pH via USEPA Method 9045C; (8) ignitability via USEPA Method 1030; (9) flashpoint via USEPA Method 1010A; (10) reactive cyanide via USEPA Method 9014; and (11) reactive sulfide via USEPA Method 9030A. The soil sample from SP-3 collected on January 15, 2015 was also analyzed for TCLP lead via USEPA Methods 6010C/1311 and TCLP benzene via USEPA Methods 8026C/1311. It was found to contain 0.78 mg/l TCLP benzene.

On February 22, 2016 and March 2, 3, 4, 2016, approximately 1,022 cubic yards of soil were excavated from this area, and temporarily placed as nine stockpiles on polyethylene sheeting located on Lot 37. These stockpiles were identified as SP-4, SP-5, SP-6, SP-7, SP-8, SP-9, SP-10, SP-11, and SP-12 and consisted of approximately 100, 110, 102, 125, 150, 110, 110, 165, and 50 cubic yards of coal tar contaminated soil, respectively. SP-4, SP-5, and SP-6 were stockpiled in the same locations as SP-1, SP-2, and SP-3, respectively. SP-7 and SP-8 were stockpiled immediately west of SP-6. SP-9, SP-10, SP-11, and SP-12 were stockpiled directly north of SP-4 through SP-7.

On February 23 and March 2, 3, 4, 2016, nine composited soil samples were collected, one from each stockpile. These stockpile soil samples were submitted to Con-Test for analysis of the following disposal criteria specifically, (1) VOCs via USEPA Method 8260C; (2) SVOCs via USEPA Method 8270D; (3) PCBs via USEPA Method 8082A; (4) MA14 metals via USEPA method 6010C/7471B; (5) specific conductance via Method 2510B; (6) pH via USEPA Method 9045C; (7) ignitability via USEPA Method 1030; (8) reactive cyanide via USEPA Method 9014; (9) reactive sulfide via USEPA Method 9030A; (10) pesticides via USEPA Method 8081B; and (11) herbicides via USEPA 815A. On March 28, 2016, a composited stockpile sample (RGP-345-SP-456) was collected and analyzed for SVOCs via USEPA Method 8270D, TPH via USEPA Method 8100M and copper via USEPA Method 6010C/D.

Beginning on April 4, 2016 until May 25, 2016, approximately 1,300 cubic yards of soil were excavated from this area, and temporarily placed as one stockpile on polyethylene sheeting located directly east of Lot 42 EP2B. On May 12, 2016, an *in situ* soil sample, designated RGP-345-G, was collected. This soil sample was submitted to Con-Test for analysis of the following disposal criteria: (1) VOCs via USEPA Method 8260C; (2) SVOCs via USEPA Method 8270D; (3) PCBs via USEPA Method 8082A; (4) MA14 metals via USEPA method 6010C/7471B; (5) specific conductance via Method 2510B; (6) pH via USEPA Method 9045C; (7) ignitability via USEPA Method 1030; (8) reactive cyanide via USEPA Method 9014; (9) reactive sulfide via USEPA Method 9030A; (10) pesticides via USEPA Method 8081B; (11) herbicides via USEPA 815A; (12) TPH via USEPA Method 8100M; (13) TCLP lead via USEPA Method 6010C/1311; (14) TCLP chlordane via USEPA Method 8081B/1311; and (15) TCLP benzene via USEPA Method 8260C/1311. On May 17, 2016, an *in situ* soil sample (RGP-345-G2) was collected and analyzed for benzene via USEPA Method 8260C, in order to obtain lower detection limits than was obtained for RGP-345-G. On May 18, 2016, two soil samples (RGP-345-G-1A and RGP-345-G-2A) were collected *in situ* and analyzed for pesticides via USEPA Method 8081B and TCLP chlordane via USEPA Method 8081B/1311. Additional samples were not collected for disposal criteria testing because the receiving facility had enough information on record from the previously excavated material.

From May 31, 2016 through August 5, 2016, approximately 4,452 cubic yards of soil were excavated from this area and live-loaded onto trucks for off-Site treatment and disposal. On July 21, 2016, two composite soil samples were collected from two stockpiles that were located adjacent to the area of excavation, but within the area of contamination, in order to receive approval to transport the stockpiles off-site, in order to gain better access to the contaminated area. These samples were submitted to Con-Test for analysis of the following disposal criteria: (1) VOCs via USEPA Method 8260C; (2) SVOCs via USEPA Method 8270D; (3) PCBs via USEPA Method 8082A; (4) MA14 metals via USEPA method 6010C/7471B; (5) specific conductance via Method 2510B; (6) pH via USEPA Method 9045C; (7) ignitability via USEPA Method 1030; (8) reactive cyanide via USEPA Method 9014; (9) reactive sulfide via USEPA Method 9030A; (10) TPH via USEPA Method 8100M; (11) TCLP lead via USEPA Method 6010C/1311; and (12) TCLP VOCs via USEPA Method 8260C/1311. Additional disposal criteria samples were not collected for the *in situ* soils because the receiving facility had sufficient information on the characteristics of the materials being shipped.

During the period March 1, 2016 to August 5, 2016, seventy-one confirmatory soil samples were collected as the RGP-345 excavation progressed. All confirmatory samples were submitted to

Con-Test for analysis of EPH and PAHs via MassDEP's Method 04-1.1. Sixty-six confirmatory soil samples were submitted to Con-Test for analysis of pesticides via USEPA Method 8081B. The RGP-345 area extends from the middle portion of original exposure point Lot 42 EP3B (depicted on Figure 3A) north to near the bottom of the embankment (comprised of fill) along the Blue Hill River wetland. The irregularly shaped excavation has the following dimensions at its widest points: (1) west – 125 feet; (2) south – 125 feet; (3) east – 200 feet; and (4) north – 180 feet. The grade prior to excavation ranged from approximately 142 feet above MSL at the southwest corner to approximately 136 above MSL at the northeast corner along the top of the embankment leading to the Blue Hill River wetlands. Prior to excavation, the wetlands were located approximately 15 feet below the top of the embankment at RGP-345. Refer to Table 9.2 for a summary of the analytical data and to Figure 13A for the plan showing the extent of the RGP-345 excavation and the confirmatory sample locations.

Final Sidewall and Bottom Confirmatory Sampling / Exposure Point Concentrations: Thirty-six soil samples are representative of final post-remedial conditions. The final sidewall and bottom confirmatory soil samples are identified in Table 9.3. The distribution and elevations of these final confirmatory samples are depicted on Figure 13A in blue font.

Sidewall samples were used to establish the horizontal extent of the excavation. The horizontal and vertical extent of excavation is depicted on Figure 13B, using the final confirmatory soil data. The bottom samples were used to determine the depth of excavation. The bottom of the excavation ranged from approximately 118 to 119 feet above MSL for the southern two-thirds of the excavation. The northern third of the excavation had final excavation depths mostly ranged between 113 and 115 feet above MSL. Near the extreme north end of the excavation, wetland soils were encountered in the bottom samples. A localized area in the northeast section of the excavation had a final excavation depth of 107 feet above MSL.

The northern terminus of the excavation ended at or near the Blue Hill River wetlands. Samples RGP-345-N5 and RGP-345-N7 represent the northern terminus sidewall, and final northern bottom samples RGP-345-B26 to RGP-345-B29 and RGP-345-B32 represent conditions at the bottom of the excavation at the northern terminus. No pesticides were detected in these samples and low levels of PAHs and two EPH subsets (C19-C36 aliphatic hydrocarbons and C11-C22 aromatic hydrocarbons) were detected in these samples. No published MassDEP background concentrations exist for the EPH subsets. MassDEP published background concentrations exist for the PAHs for both natural soils and soils associated with fill containing coal ash or wood ash. The northern terminus PAH data was compared to the MassDEP's background concentrations, as documented in Table 9.4. For the seven soil samples representative of the final conditions at the north end of the excavation, the maximum concentrations of five out of seventeen PAHs slightly exceeded the applicable MassDEP's background concentrations for natural soils; the maximum concentrations of each of the PAHs did not exceed the applicable MassDEP background concentrations for soils associated with fill containing coal ash or wood ash.

Risk Assessment(s): A location-specific risk assessment was calculated for RGP-345 by updating the MassDEP's Resident ShortForms for both the 0-3 and 0-6/0-15 foot intervals of the original Lot 42 EP3B exposure point. The final confirmatory RGP-345 data were evaluated to determine the appropriate method for deriving exposure point concentrations for PAHs, EPH and pesticides (chlordane, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT and dieldrin), as documented in Table 9.3. The mean concentration of each of the 17 PAHs, three EPH subsets and five pesticides detected in the RGP-345 final confirmatory soil samples was determined to be an appropriately conservative estimate of the exposure point concentration for each of these OHM. The RGP-345 exposure point concentrations are calculated in Table 9.5. RGP-345 is located within original exposure point Lot 42 EP3B; therefore, Lot 42 EP3B's exposure point concentrations for PCBs, barium, beryllium, nickel, vanadium and benzene were used in the RGP-345 risk assessments.

Risk estimates were calculated for both the 0-3 foot interval and 0-6/0-15 foot intervals for a resident at RGP-345. The maximum risk estimates, considering all intervals, are summarized and compared to the MCP's non-cancer and cancer risk limits in the table below. Based on these results, No Significant Risk of harm has been achieved for the soils of RGP-345. No additional soil excavation is needed in this area. The Resident Soil ShortForms for RGP-345 are provided in Appendix D of the November 2016 *Construction RAM Status Report No. 2*.

Risk Type	Risk Estimate	MCP Risk Limit	Significant Risk?
Cancer	4.0E-6	1E-5	No
Non-cancer: Subchronic	0.51	1	No
Non-cancer: Chronic	0.25	1	No

Disposition of Excavated Soils: Approximately 7,213 cubic yards of soil were excavated from this area and transported off-Site during the period February 11 to August 5, 2016. During the period February 11, 2016 to February 17, 2016, the soils from SP-2 stockpile (approximately 186 cubic yards) were transported by Goulet Trucking, Inc. under Uniform Hazardous Waste Manifests to ESMI Loudon, New Hampshire, for treatment via thermal desorption. During the period February 17, 2016 to February 22, 2016, the soils from SP-1 stockpile (approximately 253 cubic yards) were transported by W.L. French Excavating Corp., under Bill of Lading documentation, to the BFI Fall River Landfill, in Fall River, Massachusetts, for re-use as daily landfill cover. During the period March 15, 2016 to May 25, 2016, the soils from SP-5 to SP-12 stockpiles (approximately 922 cubic yards) and the soils from the stockpile west of Lot 42 E2B (approximately 1300 cubic yards) were transported by Goulet Trucking, Inc. under Uniform Hazardous Waste Manifests to ESMI Loudon, New Hampshire, for treatment via thermal desorption. On April 15, 2016 the soils from SP-4 stockpile (approximately 100 cubic yards) were transported by Goulet Trucking, Inc., under Bill of Lading documentation, to ESMI in Loudon, New Hampshire for treatment at the facility. During the period May 31, 2016 to August 5, 2016, the soils live-loaded (approximately 4,452 cubic yards) were transported to two different facilities. Approximately 3,190 cubic yards were transported by Goulet Trucking, Inc. under Uniform Hazardous Waste Manifests to Recupere Sol of Saint Ambroise, Quebec City. Approximately 646 cubic yards were transported by Page E.T.C. Inc. under Uniform Hazardous Waste Manifests to Recupere Sol, Saint Ambroise, Quebec City. Approximately 616 cubic yards were transported by Goulet Trucking, Inc. under Uniform Hazardous Waste Manifests to ESMI Loudon, New Hampshire, for treatment via thermal desorption. The off-site transport of the RGP-345 material was done under the Remediation RAM. Refer to Section 6.1 for more information on the off-site transport of these soils.

Current Status: Through August 5, 2016, approximately 7,513 cubic yards of coal tar-contaminated soils were excavated from RGP-345, and transported off-Site. Excavation of RGP-345 is complete. No further remediation of this area is required. Refer to Figure 13B for a depiction of the final status of RGP-345.

4.12 Status of RGP-6

Construction RAM (with some Off-Site Soil Disposition under Remediation RAM):

Discovery and Initial Sampling: On November 25, 2015, soils appearing to be contaminated with ash and possibly diesel fuel were discovered approximately 20 feet below original grade along the northwestern corner of the sedimentation basin, approximately 25 feet south of the wetland boundary. Like the RGP-1 soils, these soils appear to be the result of a trash fire that was accelerated with a petroleum product, possibly diesel fuel. This event likely occurred during Site filling operations in the 1970's. A sample, designated RGP-6, was collected on November 30, 2015 and submitted to

Con-Test for analysis of VOCs via USEPA Method 8260D, EPH and PAHs via MassDEP's Method, SVOCs via USEPA Method 8270D, PCBs via USEPA Method 8082A with Soxhlet extraction, MA14 metals via USEPA Methods 6010C/7471B, and TCLP lead via USEPA Method 6010C. This sample contained aliphatic and aromatic subsets of EPH ranging between 16 and 220 mg/kg. Elevated levels of a carcinogenic PAHs (up to 7 mg/kg benzo(a)pyrene) were detected via MassDEP's method and via USEPA Method 8270D. Lead was detected at a concentration of 644 mg/kg, but had a TCLP level of 1.36 mg/l, less than the Resource Conservation and Recovery (RCRA) TCLP limit for lead of 5 mg/l. Benzo(a)pyrene and lead were detected at levels greater than their Site-specific clean-up standard specified in Section 2.1. No VOCs or other SVOCs (besides constituents of PAHs and EPH) were detected in this soil sample. Refer to Table 10 for a summary of the analytical data. RGP-6 is located in Lot 42 EP3B; refer to Figure 3A for the location of Lot 42 EP3B and to Figure 3C for the location of RGP-6. As depicted in Figure 3C, RGP-6 is surrounded by and contained within RGP-345. The west side of RGP-6 is located proximal to the lead contaminated area of original exposure point Lot 42 EP2B, which is depicted in Figures 3A and 3B.

Excavation, Confirmatory Testing and Disposal Criteria Testing: On December 7, 2015, approximately 110 cubic yards of soil were excavated from this area and temporarily placed on top of the polyethylene liner located on top of the treated lead-contaminated soils located at Lot 37 EP1. On January 22, 2016, two sidewall samples (RGP-6-N-A and RGP-6-W-A) were collected and submitted to Con-Test for analysis of SVOCs (including PAHs) via USEPA Method 8270D, and for total and TCLP lead via USEPA Method 6010C. Benzo(a)pyrene and lead were detected in one or both of these samples at levels above their Site-specific clean-up standards. An elevated level of total lead was detected in one of the samples. No elevated level of TCLP lead was detected in either sample.

On March 1, 2016, an additional approximately 145 cubic yards of soil was excavated from this area and temporarily placed on top of polyethylene sheeting on top of the treated lead-contaminated soils located in Lot 42 EP2B. The same day, two sidewall samples (RGP-6-S2 and RGP-6-W2) and one bottom sample (RGP-6-B2) were collected and submitted to Con-Test for analysis of EPH and PAHs via MassDEP's Method. Benzo(a)pyrene was detected in the bottom sample (RGP-6-B2) and the south sidewall sample (RGP-6-S2) at levels above the Site-specific clean-up standards. No elevated levels of benzo(a)pyrene were detected in the west sidewall sample (RGP-6-W2). RGP-6-S2 and RGP-6-W2 were also analyzed for total lead via USEPA Method 6010D. No elevated levels of lead were detected. RGP-6-S2 and RGP-6-W2 were also analyzed for VOCs via USEPA Method 8260C and for VPH and target VOCs via MassDEP's method. No VPH subsets or VOCs were detected in either sample.

On March 9, 2016, a north sidewall sample (RGP-6-N2) was collected and submitted to Con-Test for analysis of EPH and PAHs via MassDEP's method and for lead via USEPA Method 6010C/D. Benzo(a)pyrene was detected in RGP-6-N2 at a level above its Site-specific clean-up standard. The three samples that exceeded the Site-specific clean-up standards were located in immediate proximity of RGP-345. The west side wall sample is located at the western border of RGP-345 and RGP-6. Additional excavation of the contamination within RGP-6 area (to the north, south, east and deeper) was conducted as part of RGP-345. Refer to Section 4.11 for additional information. An additional 50 cubic yards were excavated on May 17, 2016. The material was from the locations of samples "RGP-6-N-A" and "RGP-6-W-A", which were sampled on January 22, 2016. The material was located on top of coal tar in the northern portion of the Site.

The final area of excavation for RGP-6 was a rectangular depression approximately 70 feet long, 15 feet wide, and 3.5 feet deep. Approximately 305 cubic yards were excavated from RGP-6 before transferring the remainder of the excavation of this area to RGP-345. Refer to Table 10 for a summary of the analytical data and to Figure 14 for the excavation dimensions and confirmatory sampling locations for RGP-6.

Final Sidewall and Bottom Confirmatory Sampling / Exposure Point Concentrations: Additional excavation was conducted during the excavation of RGP-345. Refer to Section 4.11 for confirmatory sampling locations.

Risk Assessment(s): The final risk assessment for this area was conducted as part of RGP-345. Refer to Section 4.11 for additional information.

Disposition of Excavated Soils: Approximately 110 cubic yards of soils excavated from RGP-6 were placed at an elevation between 118 and 125 feet above MSL, which is within the southern overdig of the future location of Building 4. Another approximately 50 cubic yards of soils excavated were placed at an elevation between 126 and 127 feet above MSL, which is beneath the future location of the clubhouse. Both elevation ranges will be located more than 15 feet below final grade. There was insufficient capacity more than 15 feet below grade to place the remaining approximately 145 cubic yards in an on-Site soil repository. During the period, June 24 to June 28, 2016 approximately 145 cubic yards of soils were transported off-Site under a Bill of Lading to ESMI Loudon, of Loudon, New Hampshire for treatment. The off-site transport of this material was conducted under the Remediation RAM. Refer to Section 6.1 for additional details.

Current Status: Through August 5, 2016, approximately 110 cubic yards of PAH- and lead-contaminated soils and 195 cubic yards of PAH-contaminated soils were excavated from RGP-6. Approximately 110 cubic yards of PAH- and lead-contaminated soils were placed in the soil repository within the overdig of the future location of Building 4 and approximately 50 cubic yards of PAH-contaminated soils were placed in the soil repository within the future location of the clubhouse. Approximately 145 cubic yards of PAH-contaminated soils were transported off-Site under the Remediation RAM, due to insufficient capacity in the on-Site soil repositories, to ESMI Loudon for treatment. Additional excavation of RGP-6 was necessary and was conducted as part of RGP-345 (Section 4.11). Refer to Figure 3C for the location of RGP-345 and to Figure 4E for the locations and elevations of RGP-6 soils placed in the soil repositories beneath the future locations of Building 4 and the Club House.

4.13 Status of RGP-7

Remediation and Construction RAMs:

Lot 42 EP3A was the location of coal tar-contaminated soils (as described in Section 4.4). Following the removal of coal tar and coal tar-contaminated soils at this location during the Remediation RAM, this area was assigned RGP-7, at the request of the contractor working on the Site, to help distinguish it from other soil volumes. The following information on RGP-7 was presented in Section 5.8 of the *Construction RAM Status Report No. 2* (submitted in November 2016). Refer to Figures 3A, 3B and 3C for the locations of Lot 42 EP3A and RGP-7.

Discovery and Initial Sampling: Lot 42 EP3A is the location of coal tar-containing soils. During the Remediation RAM, approximately 100 cubic yards of coal tar-containing soils were excavated from Lot 42 EP3A and transported off-Site. Disposal criteria testing of soils excavated from Lot 42 EP3A during the Remediation RAM indicated the presence of high levels of TPH (up to 83,000 mg/kg), naphthalene (up to 10,000 mg/kg), other PAHs (up to 8,200 mg/kg for an individual PAH), as well as phenol and cresols (Table 11.1). Confirmatory sidewall and bottom sampling indicated the presence of elevated levels of PAHs in the soils, although at levels much lower than those associated with the coal tar (Table 11.2).

During the Construction RAM, additional areas of coal tar-containing soils were discovered within and in the immediate proximity to Lot 42 EP3A. Three of these additional areas are contiguous or nearly contiguous with Lot 42 EP3A and each other, and were assigned the identifiers RGP-3, RGP-

4 and RGP-5, these areas were combined and redefined as RGP-345 since the coal tar was found to be contiguous. An additional area of coal tar was discovered on February 23, 2016, and is designated RGP-10. It is located to the east-southeast of RGP-345 within Lot 42 EP3B. The excavation and off-Site disposition of these coal-tar contaminated soils was conducted under the Remediation RAM; however, are also described in this report to provide a more complete picture of soil remediation. Refer to Sections 4.8, 4.9, 4.10, 4.11 and 4.17 for additional information on RGP-3, RGP-4, RGP-5, RGP-345 and RGP-10, respectively. Refer to Figure 3C for the locations of RGP-3, RGP-4, RGP-5, RGP-345 and RGP-10.

Excavation and Disposal Criteria Testing: Under the Construction RAM, on January 15, 2016, consideration was given to constructing a recharge trench within RGP-7 to receive water from dewatering of the RGP-345 excavation pit. When a test pit was advanced in RGP-7, black soils were encountered and a soil sample was collected from these soils and submitted to Con-Test for analysis of VPH and target VOCs via MassDEP-04-1.1. Little to no VPH and target VOCs were detected (Table 11.2); however, RGP-7 was determined not to be suitable to receive recharge water.

On February 22, 2016, approximately 185 cubic yards of soil was excavated from this area and placed on top of polyethylene sheeting located at Lot 42 EP2B. The same day, three sidewall and two bottom samples were collected and submitted to Con-Test for analysis of EPH via MassDEP 04-1.1. The levels of PAHs in the soils were determined to be acceptable and no further excavation was needed. The final area of excavation was a rectangular depression approximately 30 feet long, 20 feet wide, and 8 feet deep. Refer to Table 11.2 for a summary of the analytical data. Refer to Figure 15A for the excavation dimensions and sample locations for RGP-7 and Lot 42 EP3A and to Figure 15B for the final confirmatory sample locations.

Final Sidewall and Bottom Confirmatory Sampling / Exposure Point Concentrations: The confirmatory soil analytical data for Lot 42 EP3A/RGP-7 were used to derive exposure point concentrations. Representative samples were 42-3-W, RGP-7, RGP-7-BE, RGP-7-N, RGP-7-W, RGP-7-BW and RGP-7-S. Given the relatively small size of the final excavation area for Lot 42 EP3A/RGP-7, for EPH and PAHs, the mean concentrations were determined to be the appropriate exposure point concentrations. When no compound was detected in a specific sample, one-half the reported detection limit was used to calculate the mean concentration. The VPH and target VOC analytical data for RGP-7 were evaluated, and found to be less than their exposure point concentrations obtained for the original Lot 42 EP3A risk assessment. Therefore, the original Lot 42 EP3A exposure point concentrations for VPH and VOCs were used in this risk assessment. In addition, the PCB and metal exposure point concentrations for the original Lot 42 EP3A risk assessment were used in this risk assessment. Refer to Table 11.2 for the calculation of the new exposure point concentrations for EPH and PAHs.

Risk Assessment(s): The exposure point concentration for benzo(a)pyrene is higher than its Site-specific clean-up standard specified in Section 2.1. Therefore, a location-specific risk assessment was calculated for Lot 42 EP3A/RGP-7 using MassDEP's Resident Soil ShortForm. The mean PAH and EPH concentrations in soils, provided in Table 11.2, were used as exposure point concentrations. RGP-7 is co-located with original exposure point Lot 42 EP3A; therefore, Lot 42 EP3A's exposure point concentrations for PCBs, barium, beryllium, nickel, vanadium, benzene, ethylbenzene, xylenes, toluene and styrene were used in the RGP-7 risk assessment.

The calculated risk estimates for a resident at Lot 42 EP3A/RGP-7 are summarized and compared to the MCP's non-cancer and cancer risk limits in the table below. Based on these results, No Significant Risk of harm has been achieved for the soils of Lot 42 EP3A/RGP-7. No additional soil excavation is needed in the Lot 42 EP3A/RGP-7 area. The Resident Soil ShortForm for Lot 42

EP3A/RGP-7 is provided in Appendix B of the *Remediation RAM Status Report No. 3, Remedial Monitoring Report No. 3 and Remediation RAM Completion Report*.

Risk Type	Risk Estimate	MCP Risk Limit	Significant Risk?
Cancer	8.8E-6	1E-5	No
Non-cancer: Subchronic	0.36	1	No
Non-cancer: Chronic	0.22	1	No

Disposition of Excavated Soils: Under the Remediation RAM, in October 2015, approximately 100 cubic yards of coal-tar contaminated soils for Lot 42 EP3A were transported off-Site under a Bill of Lading to ESMI Loudon, of Loudon, New Hampshire for treatment, as described in Section 6.1 of the December 2015 Remediation RAM Status Report. Under the Remediation RAM, in June and July 2016, approximately 185 cubic yards of stockpiled soils were transported by ESMI under a Bill of Lading to ESMI Loudon, of Loudon, New Hampshire for treatment. Refer to Section 6.1 of this report for additional details.

Current Status: Approximately 285 cubic yards of coal tar-contaminated soils were excavated from Lot 42 EP3A / RGP-7, under the Remediation RAM Plan for Lot 42 EP3A. These soils were later transported to ESMI Loudon, in Loudon, NH, for treatment. The location-specific risk assessment using sidewall and bottom samples for RGP-7 indicates the achievement of No Significant Risk of harm for residents. The excavation of RGP-7 is complete.

4.14 Status of RGP-8

Construction RAM:

Discovery and Initial Sampling: On December 8, 2015, under the Construction RAM, contaminated soils were discovered on Lot 37, approximately 40 feet west of the northeast corner of the over-dig for Building 4, at a depth of approximately 10-15 feet below proposed finish grade. Based on odor, the contamination was suspected to be gasoline-related. On the same day, a sample (RGP-8) was collected and submitted to Con-Test for analysis of volatile petroleum hydrocarbons (VPH) and target VOCs via MassDEP's Method, EPH and PAHs via MassDEP's Method, VOCs via USEPA Method 8260C, SVOCs via USEPA Method 8270D, MA14 Metals via USEPA Methods 6010C/7471A, and PCBs via USEPA Method 8082A. RGP-8 contained volatile gasoline-related constituents (total unadjusted VPH of 640 mg/kg). Therefore, a decision was made to remove these soils from the Site to minimize the potential for vapor intrusion into a future residential apartment building. On December 17, 2015, the second RAM Plan Modification was submitted for the Construction RAM detailing the off-site disposition of between 600 and 1,000 cubic yards of soils from RGP-8. RGP-8 is located within the central portion of original exposure point Lot 37 EP2. Refer to Figures 3A and 3C for the locations of Lot 37 EP2 and RGP-8, respectively.

Excavation, Confirmatory Soil Sampling and Disposal Criteria Testing: Soil excavation was conducted on December 9, 10, 23 and 28, 2015. During the December 9 and 10, 2015 excavation round, approximately 420 cubic yards of soils were excavated. These soils were stockpiled on polyethylene sheeting located on the north portion of Lot 37. Excavation had to be stopped at that time because there was not enough room to stockpile any more excavate. On December 11, 2015, a composite soil sample (RGP-8-SP1) was collected from the stockpile and submitted to Con-Test for analysis of VPH constituents and disposal criteria, specifically: (1) VPH and target VOCs via MassDEP's Method; (2) ignitability via USEPA Method 1030; (3) MA14 Metals via USEPA Methods 6010C/7471A; (4) PCBs via USEPA Method 8082A; (5) TPH via USEPA Method 8100 Modified; (6) VOCs via USEPA Method 8260C; (7) SVOCs via USEPA Method 8270D; (8) reactive cyanide via

USEPA Method 9014; (9) reactive sulfide via USEPA Method 9030A; and (10) pH via USEPA Method 9045C. The stockpile sample contained 920 mg/kg total unadjusted VPH.

On December 11, 2015, soil samples were collected from the north and west sidewalls and headspace screening using a PID equipped with a 10.5 eV lamp. For the north wall, headspace readings ranged between 0.6 to 15.3 ppmv. For the west side wall, the headspace readings ranged between 1.6 and 214 ppmv. The elevated 214 ppmv reading indicated, without collecting soil samples for analysis, that additional excavation is needed along the west wall. On December 12, 2015, five confirmatory soil samples were collected from the eastern portion of the north wall and submitted to Con-Test for analysis of VPH and target VOCs via MassDEP's Method, EPH and PAHs via MassDEP's Method, and PAHs via USEPA Method 8270C. On December 14, 2015, a second composite waste characterization sample (RGP-8-SP2) was collected from the stockpile in order to provide enough samples for the volume of soil for off-site disposal.

On December 23, 2015, an additional 85 cubic yards of soils were excavated and placed to the west of the original RGP-8 stockpile. Prior to the identification of RGP-8, the area to the south was excavated. In order to determine the extent of the contamination, sidewall samples were collected along the south facing wall. Four bottom and five south sidewall confirmatory samples were collected and submitted to Con-Test for analysis of VPH and target VOCs via MassDEP's Method, EPH only via MassDEP's Method, and PAHs via USEPA Method 8270D. Of these fourteen confirmatory soil samples, twelve contained no detectable levels of VPH. Two soil samples (i.e., RGP8-NSW1 and RGP-NSW3) contained total unadjusted VPH at concentrations of 183 and 69 mg/kg, respectively. Two (RGP8-NSW2 and RGP8-5) out of fourteen confirmatory soil samples contained levels of benzo(a)pyrene above its Site-specific clean-up criterion of 2 mg/kg.

On December 28, 2015, an additional 140 cubic yards of soil were excavated. These excavated soils were placed between the two existing RGP-8 stockpiles on the north portion of Lot 37. On December 28, 2015, five additional confirmatory soil samples were collected and submitted to Con-Test for analysis of VPH and target VOCs via MassDEP's Method, EPH and PAHs via MassDEP's Method, and PAHs via USEPA Method 8270C. Two soil samples (i.e., RGP-8-S1 and RGP-W1) contained total unadjusted VPH at concentrations of 17.4 and 23 mg/kg, respectively, which is significantly less than the maximum total unadjusted VPH concentration of 920 mg/kg prior to excavation. This result indicates that a substantial amount of volatile contamination has been excavated. No benzo(a)pyrene was detected at a concentration exceeding its Site-specific clean-up criteria of 2 mg/kg, provided in Section 2.1.

On January 4, 2016, an additional composited stockpile soil sample (RGP-8-SP3) was collected and submitted to Con-Test for analysis of the following disposal criteria: (1) specific conductance via Method 2510B; (2) ignitability via USEPA Method 1030; (3) MA14 Metals via USEPA Methods 6010C/7471A; (4) PCBs via USEPA Method 8082A; (5) TPH via USEPA Method 8100 Modified; (6) VOCs via USEPA Method 8260C; (7) SVOCs via USEPA Method 8270D; (8) reactive cyanide via USEPA Method 9014; (9) reactive sulfide via USEPA Method 9030A; (10) pH via USEPA Method 9045C; and (11) flashpoint via USEPA Method 1010A. Refer to Table 12.1 for a summary of the analytical data and to Figure 16 for the excavation dimensions and confirmatory sampling locations for RGP-8. The final excavation area is comprised of two depressions. The first has dimensions of 40 feet long by 20 feet wide by 6 feet deep; and the second has dimensions of 50 feet long by 40 feet wide by 6 feet deep.

Final Sidewall and Bottom Confirmatory Sampling / Exposure Point Concentrations: Each of the confirmatory soil samples collected from the sidewalls and bottom of the excavation, during the period December 9 to 28, 2016, are representative of final conditions following remediation. These soil samples were used to derive exposure point concentrations for VPH, target VOCs, EPH and PAHs. For a given sample, if a specific VPH, aromatic VOC, PAH or EPH was not detected, one-half the

detection limit was used to calculate the mean concentration. For each VPH, aromatic VOC, PAH and EPH subset, the mean concentration was identified as the exposure point concentration. No significant levels of other VOCs, PCBs or metals were detected for RGP-8; therefore, the exposure point concentrations for these OHM, where applicable, were those used for Lot 37 EP2, within which RGP-8 is located. Refer to Table 12.2 for the calculation of exposure point concentrations, which are used in the risk assessment, below.

Risk Assessment(s): A location-specific risk assessment was calculated for RGP-8 using MassDEP's Resident Soil ShortForm. The mean VPH, aromatic VOC, PAH and EPH concentrations in soils, provided in Table 12.2, were used as exposure point concentrations. The mean concentration was selected as a representative exposure point concentration, due to the relatively small size of RGP-8 (i.e., less than 90 by 40 feet) and the amount of data available (18 confirmatory soil samples). RGP-8 is located within exposure point Lot 37 EP2; therefore, Lot 37 EP2's exposure point concentrations for barium, cadmium, vanadium and nickel were in the RGP-8 risk assessment. None of the EPH or PAH exposure point concentrations exceeded the Site-specific clean-up standards specified in Section 2.1. However, four new contaminants of concern were introduced for RGP-8 (versus those of Lot 37 EP2). The new contaminants of concern are benzene, toluene, C5-C8 aliphatics and C9-C10 aromatics. The VPH subset, C9-C12 aliphatics, was not identified as a separate contaminant of concern for RPG-8, because C9-C18 aliphatics (a subset of EPH) is already a contaminant of concern, which was detected at higher concentrations than was C9-C12 aliphatics. The RGP-8 exposure point concentrations are derived in Table 12.2.

The calculated risk estimates for a resident at RGP-8 are summarized and compared to the MCP's non-cancer and cancer risk limits in the table below. Based on these results, No Significant Risk of harm has been achieved for the soils of RGP-8. The Resident Soil ShortForm for RGP-8 is provided in Appendix G of the February 2016 *Construction RAM Status Report*.

Risk Type	Risk Estimate	MCP Risk Limit	Significant Risk?
Cancer	2.8E-6	1E-5	No
Non-cancer: Subchronic	0.073	1	No
Non-cancer: Chronic	0.046	1	No

Disposition of Excavated Soils: On January 14 and 15, 2016, 645 cubic yards of soils were transported by W.L. French Excavating Corp., under Bill of Lading documentation, to the BFI Fall River Landfill, in Fall River, Massachusetts, for re-use as daily landfill cover. Refer to Section 6.1 for more details on the disposition of these soils.

Current Status: The location-specific risk assessment using sidewall and bottom samples for RGP-8 indicates the achievement of No Significant Risk of harm for residents. The excavation of RGP-8 is complete. Approximately 645 cubic yards of soils excavated from RGP-8 were transported to the BFI Fall River Landfill, in Fall River, MA, for re-use as landfill cover. The volume of soils transported off-site falls within the estimated volume (600 to 1,000 cubic yards) provided in the RAM Plan Modification no. 2. None of the excavated soils from RGP-8 were re-used on-Site.

4.15 Status of RGP-9

Construction RAM:

Discovery and Initial Sampling: On January 12, 2016, an approximately 20 foot by 23 foot area, approximately 1 to 2 feet deep, comprised of clay-like material that had a moderate odor suggesting enamel paint (linseed oil) or heavy lubricating grease was discovered, in the northeast corner of original exposure point Lot 42 EP3B. This material was discovered at about elevation 122-

124 feet above MSL, approximately 40 feet from the edge of the wetland, beneath the existing main stormwater drain line from Pacella Park Drive, and 40 to 50 feet northeast of RGP-1. A soil sample, designated RGP-9, was collected on the day of discovery and submitted to Con-Test for analysis of the following: (1) EPH and PAHs via MassDEP's Method; (2) MA14 metals via USEPA Methods 6010C/7471A; (3) TCLP lead via USEPA Method 6010C/1311; (4) PCBs via USEPA Method 8082A; (5) VOCs via USEPA Method 8260C; and (6) SVOCs via USEPA Method 8270D. Elevated levels of PAHs were detected, and cadmium was detected at 19 mg/kg. RGP-9 is located within Lot 42 EP3B, in the northeast corner of the sedimentation basin. Refer to Figures 3A and 3C for the locations of Lot 42 EP3B and RGP-9, respectively. Refer to Table 13.1 for a summary of the analytical data.

Excavation, Confirmatory Soil Sampling and Disposal Criteria Testing: On January 20, 2015, approximately 50 cubic yards of soil were excavated from RGP-9, from an approximately 20 foot by 23 foot area. The excavated soils were stockpiled on polyethylene sheeting located immediately east of the excavation. Four confirmatory sidewall samples, one confirmatory bottom sample and one composited stockpile sample were collected and submitted to Con-Test for analysis of PAHs via USEPA Method 8270D and of cadmium via USEPA Method 6010C. Significantly lower levels of PAHs and cadmium were detected in the confirmatory soil samples. The stockpile soil sample had levels of PAHs and cadmium similar to those of the confirmatory soil samples and significantly less than detected in the original RGP-9 soil sample. Since the soil stockpile includes the soils from the original RGP-9 sample, the stockpile soils were re-used on-Site in a soil repository, located more than 15 feet below final grade. Refer to Table 13.1 for a summary of the soil analytical data, and to Figure 17 for a Site Plan showing the excavation dimensions and confirmatory sampling locations of RGP-9.

Final Sidewall and Bottom Confirmatory Sampling / Exposure Point Concentrations: Each of the confirmatory soil samples collected from the sidewalls and bottom of the excavation on January 20, 2016 are representative of final conditions following remediation. These soil samples were used to derive exposure point concentrations for PAHs and cadmium. The mean concentration was identified as the exposure point concentration, given the small size of the RGP-9 excavation. For a given sample, if a specific PAH or cadmium was not detected, one-half the detection limit was used to calculate the mean concentration. No EPH data was collected as part of confirmatory sampling; therefore, the EPH data for the original RGP-9 sample were used as the exposure point concentrations. For the remaining contaminants of concern, the exposure point concentration were the same as those for Lot 42 EP3B, within which RGP-9 is located. Refer to Table 13.2 for the calculation of exposure point concentrations, which are used in the risk assessment, below.

Risk Assessment(s): A location-specific risk assessment was calculated for RGP-9 using MassDEP's Resident Soil ShortForm. The mean PAH and cadmium concentrations in soils and the detected levels of EPH before excavation of RGP-9 were used as exposure point concentrations. RGP-9 is located within exposure point Lot 42 EP3B; therefore, Lot 42 EP3B's exposure point concentrations for barium, benzene, beryllium, nickel, PCBs and vanadium were in the RGP-9 risk assessment. None of the EPH or PAH exposure point concentrations exceeded the Site-specific clean-up standards specified in Section 2.1. However, one new contaminant of concern was introduced for RGP-9 (versus those of Lot 42 EP3B). The new contaminant of concern is cadmium. The RGP-9 exposure point concentrations are derived in Table 13.2.

The calculated risk estimates for a resident at RGP-9 are summarized and compared to the MCP's non-cancer and cancer risk limits in the table below. Based on these results, No Significant Risk of harm has been achieved for the soils of RGP-9. The Resident Soil ShortForm for RGP-9 is provided in Appendix H of the *Construction RAM Status Report* that was submitted in February 2016.

Risk Type	Risk Estimate	MCP Risk Limit	Significant Risk?
Cancer	3.2E-6	1E-5	No
Non-cancer: Subchronic	0.56	1	No
Non-cancer: Chronic	0.31	1	No

Disposition of Excavated Soils: Approximately 50 cubic yards of soils were excavated from RGP-9, and were temporarily stored on polyethylene sheeting immediately east of the excavation. These stockpiled soils were moved to a permanent soil repository located more than 15 feet below final grade. The soils were placed at elevation 126 feet above MSL, within the repository over which the club house will be constructed. Refer to Figure 4E for the location of the clubhouse soil repository.

Current Status: Approximately 50 cubic yards of soils were excavated from RGP-9 and placed in the clubhouse soil repository, at elevation 126 feet above MSL. Sidewall and bottom confirmatory sampling was conducted, and a location-specific risk assessment was conducted using MassDEP's Resident Risk Assessment ShortForm. Based on the results of the risk assessment, No Significant Risk of Harm has been achieved. No additional excavation of RGP-9 is needed. Refer to Figure 4E for the location of the clubhouse soil repository, where the excavated soils from RGP-9 were placed.

4.16 Status of RGP-3456

Construction RAM:

Discovery and Initial Sampling: RGP-3456 is not an area of distinctive visible contamination. This area is surrounded by the coal tar contaminated areas of RGP-3, RGP-4, RGP-5, RGP-345, RGP-6 and RGP-7 and south of the wood ash contaminated area of RGP-6, and is located within original exposure point Lot 42 EP3B. This area had to be excavated for construction activities to proceed. Refer to Figures 3A and 3C for the locations of Lot 42 EP3B and RGP-3456, respectively. Therefore, these soils were excavated and stockpiled, so that analyses could be conducted to determine whether the soils could be used as structural fill without limitation or had to be re-used at depth in an on-Site soil repository.

Excavation, Confirmatory Sampling and Disposal Criteria Testing: On January 13, 2016, approximately 150 cubic yards of soils were excavated from this area and stockpiled on polyethylene sheeting on the west portion of Lot 42 EP3B. On January 13, 2016, a composite soil sample was collected from the RGP-3456 stockpile and analyzed for VOCs via USEPA Method 8260C, SVOCs via USEPA Method 8270D, MA14 metals via USEPA Methods 6010C/7471A, TCLP lead via USEPA Methods 6010C/1311, PCBs via USEPA Method 8082A, and EPH and PAHs via MASSDEP's method. No confirmatory sidewall and bottom sampling data exists because of RGP-3456's location. RGP-345 is located east, west, and beneath RGP-3456 and RGP-6 is located immediately north of RGP-3456. Refer to Figure 18 for the excavation dimensions of RGP-3456. The analytical data for the excavated soils are summarized in Table 14.

Final Sidewall and Bottom Confirmatory Sampling / Exposure Point Concentrations: Final sidewall and bottom confirmatory sampling was not conducted because of its immediate proximity to RGP-345, RGP-6 and RGP-7. The existing analytical data for the RGP-3456 stockpile was evaluated to determine if the soils could be re-used anywhere on-Site as structural fill, or if the soils had to be handled as contaminated media. The levels of PAHs detected in the soils of the RGP-3456 stockpile are too high to allow the re-use of these soils as structural fill outside of a soil repository area that is located more than 15 feet below grade. Final sidewall and bottom confirmatory sampling will be or has been conducted as part of the larger RGP-345 area, refer to Section 4.11.

Risk Assessment(s): Based on the levels of PAHs, a significant risk of harm would exist to a resident if a risk assessment was conducted and the soils of stockpile RGP-3456 were presumed accessible. No risk assessment is needed to make this finding. The risk assessment(s) based on the final sidewall and bottom confirmatory sampling has been conducted as part of the larger RGP-345 area, refer to Section 4.11.

Disposition of Excavated Soils: Approximately 150 cubic yards of stockpiled soils excavated from RGP-3456 were placed in a final repository on Lot 42 EP3B, at elevations between 118 and 124 feet above MSL. This repository is below the future location of the clubhouse. Refer to Figure 4E for the location and elevation of the repository within which these excavated soils were placed.

Current Status: Excavation of the soils of RGP-3456 is complete. Confirmatory soil sampling was conducted as part of RGP-345, described in Section 4.11. Approximately 150 cubic yards of stockpiled soils located on Lot 42 EP3B were placed at an elevation between 118 and 124 feet above MSL, which will be 15 feet or more below the final grade at the future clubhouse. Refer to Figure 4E for the repository location of the soils excavated from RGP-3456.

4.17 Status of RGP-10

Remediation RAM:

Discovery and Initial Sampling: On February 23, 2016, an area of coal tar approximately 1 foot in height and 12 feet in length was discovered. This area is identified as RGP-10. The coal tar could not be removed on February 23, because it extended into an access road used by the construction/utility workers. A grab sample was collected and submitted to Con-Test for analysis of disposal criteria, specifically, (1) VOCs via USEPA Method 8260C; (2) PAHs via USEPA Method 8270D; (3) PCBs via USEPA Method 8082A; (4) MA14 metals via USEPA method 6010C/7471B; (5) specific conductance via Method 2510B; (6) pH via USEPA Method 9045C; (7) ignitability via USEPA Method 1030; (8) reactive cyanide via USEPA Method 9014; (9) reactive sulfide via USEPA Method 9030A; (10) pesticides via USEPA Method 8081B; and (11) herbicides via USEPA 815A. Refer to Figure 3C for the location of RGP-10.

Excavation and Disposal Criteria Testing: On May 13, 2016, approximately 60 cubic yards of soil was excavated from this area and placed on polyethylene sheeting and stockpiled directly south of Lot 42 EP2B. This stockpile was identified as SP-1. On the same day one sidewall and one bottom sample were collected and submitted to Con-Test for analysis of EPH and PAHs via MADEP's Method. Both samples contained elevated levels of PAHs. Since excavation across the Site was proceeding from northeast to southwest, it was not possible to collect east and north sidewall samples. The coal tar was visible south, but could not be excavated because it extended into an access road, so no confirmatory samples were collected along the southern sidewall.

On June 3, 2016, an additional 120 cubic yards of soil was excavated from the bottom of this area and placed on polyethylene sheeting and stockpiled directly south of Lot 42 EP2B. This stockpile was identified as SP-2. On the same day, one bottom sample was collected and submitted to Con-Test for analysis of PAHs via USEPA Method 8270D. The bottom samples contained elevated levels of PAHs.

On June 23, 2016, an additional 200 cubic yards of soil was excavated from the bottom and western sidewall. The excavated soils were placed on polyethyelene sheeting and separated into two stockpiles, SP-3 and SP-4. The stockpiles were located on the building footprint for the future Building 4. On the same day, one sidewall and two bottom soil samples were collected and analyzed for EPH and PAHs via MADEP's Method. The samples were determined to be acceptable, however, coal tar was visible on the south sidewall beneath an active roadway so further excavation was needed.

On September 26, 2016, an additional 70 cubic yards of soil was excavated from the southern sidewall and live-loaded off-site. The coal tar contaminated soils extended beneath an active road, so a cut was made to the asphalt approximately 9 feet by 77 feet in size. On the same day, seven sidewall and twelve bottom soil samples were collected and submitted to Con-Test for analysis of PAHs. Six of the samples contained elevated levels of PAHs and required further excavation.

On September 29, 2016, an additional 90 cubic yards of soil was excavated from the south eastern portion and was placed on polyethylene sheeting and separated into two stockpiles. On the same day, two sidewall and five bottom samples were collected and submitted to Con-Test for analysis of PAHs. The samples were determined to be acceptable, and no further excavation was completed.

The final area of excavation is comprised of a rectangular depression approximately 80 feet long, 65 feet wide, and 2.5 to 5 feet deep. Refer to Tables 15.1 and 15.2 for a summary of the analytical data and to Figure 19A for the excavation dimensions RGP-10.

Final Sidewall and Bottom Confirmatory Sampling / Exposure Point Concentrations: Twenty-three soil samples are representative of final post-remedial conditions. The distribution and depths of these final *in situ* sidewall and bottom confirmatory samples are depicted on Figure 19B.

In situ sidewall confirmatory samples were used to establish the horizontal extent of the excavation. The horizontal extent of excavation is depicted on Figure 19B. The *in situ* bottom confirmatory samples were used to determine the depth of excavation. The bottom of the excavation ranged from approximately three to eight feet below final grade for the southern two-thirds of the excavation. The northern third of the excavation had final excavation depths mostly ranged between six and nine feet below final grade.

Risk Assessment(s): A location-specific risk assessment was calculated for RGP-10 by updating the MassDEP's Resident ShortForm for the original Lot 42 EP3B exposure point. The final confirmatory RGP-10 data were evaluated to determine the appropriate method for deriving exposure point concentrations for PAHs and EPH, as documented in Table 15.3. With one exception, the mean concentration of each of the 17 PAHs and two EPH subsets detected in the RGP-10 final confirmatory soil samples was determined to be an appropriately conservative estimate of the exposure point concentration for each of these OHM. For benzo(a)pyrene, the appropriate method to derive exposure point concentration is the 95th percentile upper confidence limit on the mean, because a significant number of samples contained more benzo(a)pyrene than the S-1 direct contact standard for benzo(a)pyrene. The RGP-10 exposure point concentrations are calculated in Table 15.4. RGP-10 is located near original exposure point Lot 42 EP3B; therefore, Lot 42 EP3B's exposure point concentrations (higher of the exposure point concentrations for the 0-3 and 0-6/0-15 foot intervals) for PCBs, barium, beryllium, nickel, vanadium and benzene were used in the RGP-10 risk assessments.

Risk estimates were calculated for a resident at RGP-10. The maximum risk estimates are summarized and compared to the MCP's non-cancer and cancer risk limits in the table below. Based on these results, No Significant Risk of harm has been achieved for the soils of RGP-10. No additional soil excavation is needed in this area. The Residential Soil ShortForm for RGP-10 is provided in Appendix D of the *Release Abatement Measure (RAM) Status Report no. 3, Remedial Monitoring Report no. 3 and RAM Completion Report to Support Remediation Activities*.

Risk Type	Risk Estimate	MCP Risk Limit	Significant Risk?
Cancer	7.7E-6	1E-5	No
Non-cancer: Subchronic	0.35	1	No
Non-cancer: Chronic	0.21	1	No

Disposition of Excavated Soils: On May 25, 2016, the soils from SP-1 stockpile (approximately 60 cubic yards) were transported by ESMI under a Bill of Lading to ESMI Loudon, of Loudon, New

Hampshire for treatment via thermal desorption. SP-1 was mistakenly transported off-Site on the Bill of Lading for RGP-345 that was also transported to ESMI Loudon. On June 10, 2016, the soils from SP-2 stockpile (approximately 120 cubic yards) were transported by ESMI and Goulet Trucking, Inc. under a Bill of Lading to ESMI Loudon, of Loudon, New Hampshire for treatment via thermal desorption. On July 6 and July 7, 2016 soils from SP-3 and SP-4 stockpiles (approximately 200 cubic yards) were transported by ESMI under a Bill of Lading to ESMI Loudon, of Loudon, New Hampshire for treatment via thermal desorption. On September 26, 2016 the soils excavated (approximately 70 cubic yards) were live-loaded and transported by ESMI, under a Bill of Lading to ESMI Loudon, New Hampshire for treatment via thermal desorption. On September 30, 2016 the soils stockpiled on September 29, 2016 (approximately 90 cubic yards) were transported by ESMI under a Bill of Lading for treatment via thermal desorption. Refer to Section 6.1 for more information on the off-site transport of these soils.

Current Status: Through September 30, 2016, approximately 540 cubic yards of coal tar-contaminated soils were excavated from RGP-10 and transported under a Bill of Lading to ESMI Loudon, of Loudon New Hampshire for treatment. No further excavation is needed. Remediation of this area is complete.

4.18 Status of RGP-11

Construction RAM:

Discovery and Initial Sampling: On April 19, 2016, an approximately 10 foot by 2 foot area, comprised of grey clay-like material that had a hydrogen sulfide odor was discovered. The material also consisted of marine-like sediment and had fragments of shells throughout the area. This material was identified at elevation 130-132 feet above MSL, approximately 10 feet west Lot 42 EP3C. A soil sample was collected on the day of discovery and submitted to Con-Test for analysis of the following: (1) EPH and PAHs via MASSDEP's Method; (2) MA14 metals via USEPA Methods 6010C/7471A; (3) PCBs via USEPA Method 8082A; (4) VOCs via USEPA Method 8260C; and (5) SVOCs via USEPA Method 8270D.

On May 18, 2016, an additional sample was collected and submitted to Con-Test for analysis of the following: (1) EPH and PAHs via MASSDEP's Method; (2) MA14 metals via USEPA Methods 6010C/7471A; (3) PCBs via USEPA Method 8082A; (4) VOCs via USEPA Method 8260C; and (5) SVOCs via USEPA Method 8270D. Based on a preliminary evaluation of the soil data, no PCBs were detected in soils. SVOCs were limited to PAHs and dibenzofuran (which is a constituent of C11-C22 aromatic hydrocarbons). EPH and PAH levels were relatively low, i.e., below Site-specific clean-up standards. All PAHs, except benzo(g,h,i)perylene, fluoranthene, 2-methylnaphthalene and naphthalene, were detected at levels below MassDEP's published background concentrations for soils associated with fill containing coal ash or wood ash. The metals detected were barium, cadmium, chromium, lead, mercury, nickel, vanadium and zinc. Of these metals, barium, chromium, nickel and vanadium were detected at levels exceeding MassDEP's published background concentrations for natural soils. Based on a preliminary evaluation: (1) the hydrogen sulfide odor is believed attributable to microbial activity within the buried marine deposits; (2) the levels of these OHM were determined to be acceptable; and (3) therefore, the soils were not remedially excavated but remained in place until excavated as part of Site-wide construction / soil processing. Refer to Figure 3C for a depiction of the location of RGP-11 and to Table 16.1 for a summary of the soil analytical data. An evaluation of the RGP-11 analytical data is provided in Table 16.2.

Excavation and Disposal Criteria Testing: No excavation or disposal criteria testing was conducted, because both were unnecessary.

Final Sidewall and Bottom Confirmatory Sampling / Exposure Point Concentrations: No confirmatory sampling was necessary. The analytical data for the representative samples were used to calculate exposure point concentrations, as documented in Table 16.2 and described in Risk Assessment(s), below. Sample locations are depicted in Figure 20.

Risk Assessment(s): RGP-11 is located in the southeast section of the exposure point identified as Lot 42 EP3B (Figures 3A and 3C). A location-specific risk assessment was calculated for RGP-11 using MassDEP's Resident Soil ShortForm. EPH, PAHs and the metals barium, chromium, nickel and vanadium were identified as contaminants of concern for RGP-11. The original contaminants of concern for Lot 42 EP3B include the RGP-11 contaminants of concern (except not chromium) plus beryllium, PCBs and benzene. The maximum EPH, PAH and metal (excluding beryllium) concentrations in soils, provided in Table 16.2, were used as exposure point concentrations for RGP-11. The exposure point concentrations for beryllium, PCBs and benzene are the same as those for Lot 42 EP3B. Certain metals were detected in RGP-11 soil samples, but were excluded as contaminants of concern in this risk assessment, because they were consistently detected at levels below the MassDEP's published background concentrations for soils associated with fill containing coal ash or wood ash in both RGP-11 and Lot 42 EP3B soil samples.

The risk estimate calculations are provided separately for the 0-3 foot interval and the 0-6/0-15 foot interval in Appendix F of the November 2016 *Construction RAM Status Report no. 2*. The maximum calculated risk estimates for a resident at RGP-11 are summarized and compared to the MCP's non-cancer and cancer risk limits in the table below. Based on these results, No Significant Risk of harm exists for the soils of RGP-11.

Risk Type	Risk Estimate	MCP Risk Limit	Significant Risk?
Cancer	8.6E-6	1E-5	No
Non-cancer: Subchronic	0.21	1	No
Non-cancer: Chronic	0.21	1	No

Disposition of Excavated Soils: The RGP-11 soil samples contained acceptable levels of EPH, PAHs and metals. Therefore, the soils were not excavated for remedial purposes.

Current Status: Investigative activities for RGP-11 are complete. No remedial excavation activities were necessary for this area.

4.19 Status of RGP-12

Construction RAM (with Off-Site Soil Disposition under the Remediation RAM):

Discovery and Initial Sampling: On July 8, 2016, an approximately 4 foot by 30 foot area, comprised of clay-like material and small coal tar fragments that had a moderate odor suggesting gasoline was discovered. This material was identified at elevation 135-138 feet above MSL, beneath the western portion of Pacella Park Drive. RGP-12 is located in the southeast section of Lot 42 EP2A, immediately west of Lot 42 EP1A. A soil sample was collected on the day of discovery and submitted to Con-Test for analysis of the following: (1) EPH and PAHs via MASSDEP's Method; (2) MA14 metals via USEPA Methods 6010C/7471A; (3) TCLP lead via USEPA Method 6010C/1311; (4) PCBs via USEPA Method 8082A; (5) VOCs via USEPA Method 8260C; and (6) SVOCs via USEPA Method 8270D. Elevated levels of naphthalene were detected. Refer to Figure 3C for the location of RGP-12 and Figure 3A for the location of Lot 42 EP2A. Refer to Table 17.1 for summary of the analytical data.

Excavation and Disposal Criteria Testing: On July 21 and July 22, 2016, approximately 168 cubic yards of soil were excavated from RGP-12. The excavated soils were live-loaded into trucks to

be transported off-Site. Four confirmatory sidewall and two confirmatory bottom samples were collected and submitted to Con-Test for analysis of EPH and PAHs via MASSDEP's Method. The current area of excavation is comprised of a rectangular depression approximately 40 feet long, 18 feet wide, and 3.5 feet deep. Refer to Table 17.1 for a summary of the soil analytical data, and to Figure 21 for a Site Plan showing the excavation dimensions and confirmatory sampling locations of RGP-12.

Final Sidewall and Bottom Confirmatory Sampling / Exposure Point Concentrations: Each of the confirmatory soil samples collected from the sidewalls and bottom of the excavation on July 21 and 22, 2016 are representative of final conditions following remediation (Table 17.2). Exposure point concentrations were calculated, as described below, as documented in Table 17.3.

Risk Assessment(s): RGP-12 is located in the southeast section of the exposure point identified as Lot 42 EP2A (Figures 3A and 3C). A location-specific risk assessment was calculated for RGP-12 using MassDEP's Resident Soil ShortForm. EPH and PAHs were identified as contaminants of concern for RGP-12. The original contaminants of concern for Lot 42 EP2A include the RGP-12 contaminants of concern plus barium, beryllium, mercury, nickel, vanadium, acetone, benzene, ethylbenzene and trichloroethene. Given the relatively small size of the RGP-12 excavation (approximately 18 feet wide by 40 feet long), the mean concentration was identified as an appropriately conservative estimate of the exposure point concentration. The EPH and PAH exposure point concentrations for RGP-12 are calculated in Table 17.3. The exposure point concentrations for barium, beryllium, mercury, vanadium, acetone, benzene, ethylbenzene and trichloroethene are the same as those for Lot 42 EP2A.

The risk estimate calculations are provided separately for the 0-3 foot interval and the 0-6/0-15 foot interval in Appendix I of the November 2016 *Construction RAM Status Report*. The maximum calculated risk estimates for a resident at RGP-12 are summarized and compared to the MCP's non-cancer and cancer risk limits in the table below. Based on these results, No Significant Risk of harm exists for the soils of RGP-12.

Risk Type	Risk Estimate	MCP Risk Limit	Significant Risk?
Cancer	6.6E-6	1E-5	No
Non-cancer: Subchronic	0.38	1	No
Non-cancer: Chronic	0.18	1	No

Disposition of Excavated Soils: On July 21 and July 22, 2016, approximately 168 cubic yards of soil was excavated from RGP-12. The excavated soils were live-loaded into trucks and were transported by Goulet Trucking, Inc. under a Bill of Lading to ESMI Loudon, of Loudon, New Hampshire for treatment. The off-site transport of the RGP-12 soils was conducted under the Remediation RAM. Refer to Section 6.1 for further details.

Current Status: Approximately 168 cubic yards of soils were excavated from RGP-12 and were transported by Goulet Trucking, Inc. under a Bill of Lading to ESMI Loudon, of Loudon, New Hampshire for treatment. Sidewall and bottom confirmatory sampling was conducted, and a location-specific risk assessment was conducted using MassDEP's Resident Risk Assessment ShortForm. Based on the results of the risk assessment, No Significant Risk of harm has been achieved. No additional excavation of RGP-12 is needed.

4.20 Status of RGP-13

Discovery and Initial Sampling: On July 20, 2016, an approximately 25 foot by 25 foot area, comprised of grey clay-like material that had a hydrogen sulfide odor was discovered. The material

also consisted of marine-like sediment and had fragments of shells throughout the area. This material was identified at elevation 142-144 feet above MSL, in the western portion of Lot 42 EP2A. Its appearance was similar to those observed in RGP-11, located at the southeast corner of Lot 42 EP2A. A soil sample was collected on the day of discovery and submitted to Con-Test for analysis of the following: (1) EPH and PAHs via MASSDEP's Method; (2) MA14 metals via USEPA Methods 6010C/7471A; (3) PCBs via USEPA Method 8082A; (4) VOCs via USEPA Method 8260C; and (5) SVOCs via USEPA Method 8270D. Based on a preliminary evaluation: (1) the hydrogen sulfide odor is believed attributable to microbial activity within the buried marine deposits; (2) the levels of these PAHs and EPH were relatively low and comparable to the levels detected at RGP-11; and (3) therefore, the soils were not excavated but remain in place. Refer to Figures 3A and 3C for the location of the original exposure point Lot 42 EP2A and the locations of RGP-11 and RGP-13. Refer to Figure 22 for a depiction of the location of RGP-13. The analytical data is summarized in Table 18.

Excavation and Disposal Criteria Testing: No excavation or disposal criteria testing was conducted, because both were unnecessary.

Final Sidewall and Bottom Confirmatory Sampling / Exposure Point Concentrations: No confirmatory sampling was necessary.

Risk Assessment(s): The levels of EPH and PAHs detected in the representative sample collected from RGP-13 were relatively low and were comparable to the levels of EPH and PAHs detected in the RGP-11 representative samples. Therefore, no risk assessment was necessary to verify that No Significant Risk of harm exists for RGP-13.

Disposition of Excavated Soils: The representative soil sample contained acceptable levels of EPH, PAHs and metals. Therefore, the soils of RGP-13 were not excavated for remedial purposes.

Current Status: Investigative activities for RGP-13 are complete. No remedial excavation activities were necessary for this area.

4.21 Status of the Remainder of Lots 37 and 42

During the Construction and Remediation RAMs, approximately 207,900 cubic yards of soils and other solid materials were excavated from Lots 37 and 42. The area of excavation is depicted on Figure 4C. The depth of excavation under the foundations and within a one-to-one downward slope beneath the footings was to natural soils. Beneath Buildings 1 and 4 and beneath the clubhouse and the abutting area to the north, the excavation was conducted to significantly more than 15 feet below final grade, to allow for the creation of on-Site soil repositories. Under all parking lots, except for those that had to be excavated deeper to create on-Site soil repositories or for remedial purposes, the excavation went to six feet below final grade unless natural soils were encountered first. Geo-grid and compacted, processed soils were placed beneath the planned parking lots to the pavement sub-grade.

Approximately 73,000 cubic yards of solid material, comprised of boulders/rocks, concrete, brick, asphalt, rebar, railroad ties, railroad tracks, metals, tires and other debris, was removed from the soils. The disposition of the approximately 134,900 cubic yards of soils is as follows: (1) approximately 5,816 cubic yards of PAH-, PCB- or lead-contaminated soils were placed in on-Site soil repositories; (2) approximately 7,095 cubic yards of <1 mg/kg PCB-contaminated soils were placed beneath the footprint of future Buildings 1, 2 and 3 (not considered placed in soil repositories); (3) approximately 9,900 cubic yards of PAH-contaminated soils / coal tar were transported off-site for treatment or disposal; and (4) the remaining approximately 112,100 cubic yards of soils were processed to increase structural strength then were re-used on-Site to support building construction and grading of the two lots. Some of the recovered solid material was re-used on-Site as described in Section 6.1.

The remainder was transported off-site for disposal or recycling, also as described in Section 6.1. The area of excavation across Lots 37 and 42 is depicted in Figure 4C.

The processed soils were placed across the Site in preparation for Site development (i.e., building construction, paving of parking areas and landscaping, installation of swimming pool, etc.). Some of these activities were started when the remedial and soil processing activities were completed in a portion of the Site. Most of these soils will be or are covered by building foundations (four apartment buildings and the club house) or paved parking areas.

Four on-Site soil repositories were created. The locations and elevations of each repository is depicted in Figure 4E. Three soil repositories (identified as the Building 4 repository, Clubhouse repository and Building 3 parking lot repository) were used to place lead-contaminated soils, which were treated to reduce TCLP lead levels during the Remediation RAM, and PAH-contaminated soils. These repositories are located 15 feet or more below final grade.

The fourth soil repository (identified as Building 1 repository) was used to place PCB-contaminated soils (>1 to 5 mg/kg PCBs). This repository is located 14 feet or more below final grade. The levels of PCBs in the soils are relatively low. A risk characterization provided in the Phase I Initial Site Investigation demonstrated that No Significant Risk of harm would exist to future residents from exposure to PCBs. However, to minimize future residential exposure to the PCB-contaminated soils, the PCB-contaminated soils were excavated and the more contaminated soils were placed at the bottom of the Building 1 repository, at approximately an elevation of 135 feet above MSL or approximately 20 to 21 feet below final grade. A plan showing the elevations of the final grade, location and elevations of soil repositories and locations of Site buildings and other features will be provided in the Permanent Solution Statements for Lots 37 and 42. Soils containing <1 mg/kg PCBs were placed on top of the PCB soil repository beneath Building 1 and beneath Building 2, as described in Section 6.1.

The sedimentation basin used during the remedial and soil processing work was converted into a wetland as part of the Site's storm water system. The sedimentation basin was graded and hydro-mulched, and seeded with a 50:50 seed mixture of perennial and annual rye grass. This action secured the basin for the wetland plantings during the spring of 2017 as the final wetland restoration requirement of the Town of Randolph Order of Conditions. The basin was planted with additional wet-mix seeding, speckled alder, swamp rose, swamp milkweed, joe-pye weed, swamp maples, sweet pepperbush, New England aster, winterberry, marsh marigold, red-osier dogwood and cardinal flower. In total, 1,090 one-gallon potted plants and 550 two-inch plugs were planted in the wetland. Refer to Figure 4G for a plan showing the planting in the sedimentation basin / wetland area.

The catch basins, manholes and drain lines comprising the storm drainage system are installed and successfully discharge to the wetland.

Two rain gardens were constructed, one on the far northeastern edge of Lot 37 and one on the far northwestern edge of Lot 42. These rain gardens receive clean roof drainage from half of Buildings 4 and 5 (northeastern) and from all of Building 1 and half of Buildings 2 and 3. The remainder of the roof drainage for Buildings 2, 3, 4 and 5 flow into the main storm-water system via storm-trap sedimentation and oil-water separators (which are buried beneath the parking lots) then to the constructed wetland and then to the Blue Hill River wetland. Figure 4B provides a depiction of the final storm water drainage system.

During excavation for Building 1 parking lot, ledge/sandstone rock was encountered along the south and west edge of the parking areas. The rock material was removed via excavator hammer and stockpiled. Approximately 370 cubic yards was used to reinforce the western side of berms located along the western property boundary. Approximately 2,700 cubic yards was removed from the site on September 22, 25 and 26, 2017 and recycled at the TL Edwards Asphalt Plant in Avon, MA. On November 16 and 17, 2017, an additional approximately 320 cubic yards were removed from the site and recycled at TL Edwards Plant in Stoughton, MA. On November 20-22, 2017, approximately 1,300 cubic yards were removed and recycled at MJM Corporation in Brockton, MA. On November 28,

2017, approximately 15 cubic yards were removed to Rosenfeld Concrete in Hopedale, MA. In total, approximately 4,335 cubic yards of rock material was removed from the site.

All stockpiles of soils have been re-used on-Site, placed in on-Site soil repositories or transported off-site. No activities remain to be completed under the Construction RAM Plan and Construction RAM Plan Modifications.

4.22 Air Monitoring Data

During the Construction and Remediation RAM projects, soil moisture was monitored continuously throughout the Site in order to prevent dust generation. During soil excavation and processing activities, air monitoring was conducted for PM-10 (10 micron particulate matter) continuously in real time. The dust Action Level was 150 micrograms per cubic meter. Three weather proof Dust Trak II Aerosol Monitors Model 8530 (dust monitors) were used to collect real-time data. The dust monitors were placed near the property line bordering the residences on the west side of the Lot 42, downwind of the established prevailing wind direction, and in the work zone. Refer to Figure 4A for the locations of the dust monitors.

On October 19, 2017 the dust monitor (#3) located on the eastern property boundary was removed due to installed asphalt pavement and the ceasing of site work. Buildings 4 and 5 strictly had interior work being performed.

Two water sources were used for dust suppression: (1) a hose directly connected to the Town of Randolph water supply; and (2) a water truck. The water used for dust suppression was monitored carefully so that runoff did not impact wetland resource areas, storm drain basins or cause erosion.

Dust levels exceeded the Action Level most days, but only for approximately thirty seconds. The averages for each day were significantly less than the Action Level. Refer to the Construction RAM Status Reports and Remediation RAM Status Reports for dust monitoring data, and to Appendix B of this report for dust monitoring data for the period August 2016 to present.

Organic compounds were also monitored during excavation activities using a handheld photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. If observations suggest the presence of volatile petroleum or organic vapor, total organic vapors (TOV) readings were recorded during excavation. Available open air readings ranged from 0.0 to 0.5 ppmv. During excavation, when an elevated TOV reading was encountered, a soil sample was collected and submitted to the laboratory for complete disposal criteria characterization.

4.23 Groundwater Monitoring Data

During the implementation of the Construction RAM, groundwater samples from two monitoring wells (UNKMW-100 and MW-RGP8) were collected and submitted to Con-Test for laboratory analysis. Refer to Figure 4A for the locations of these two monitoring wells.

Groundwater samples were collected from UNKMW-100 because it is located downgradient of RGP-345, where elevated levels of PAHs, phenols and pesticides were detected in the coal tar-contaminated soils. On December 23, 2015, two groundwater samples were collected from one monitoring well (UNKMW-100). One sample was field filtered prior to preservation and the second sample was not filtered prior to preservation. Both samples were submitted to Con-Test for analysis of SVOCs via USEPA Method 8270D. No PAHs or phenols or any other SVOCs were detected in either the filtered or non-filtered groundwater sample.

On March 10, 2016, GEC resampled UNKMW-100; the depth to water was 9.20 feet and depth to bottom was 17.55 feet from the top of riser. The construction of this well is unknown, GEC assumed a ten (10) foot screen and seven (7) feet of riser. GEC purged the monitoring well until clear. Samples were collected at UNKMW-100 using low-flow sampling methodology. A 1.75-inch Geotech bladder

pump was utilized with a QED MP-50 controller to purge monitoring wells at a controlled rate. Inorganic parameters, including temperature, conductivity, dissolved oxygen, pH, and oxidation/reduction potential were monitored while purging using a YSI 6820 multi parameter water quality meter. The turbidity was monitored using a separate turbidity meter. When these parameters stabilized, indicating good communication between the well and surrounding aquifer, samples were collected. Dissolved samples were field-filtered using a 0.45 micron filter. The filtered and unfiltered groundwater sample for UNKMW-100 was submitted to Con-Test for analysis of pesticides via USEPA Method 8081B. No pesticides were detected in either the filtered or non-filtered sample.

Based on the analytical results for UNKMW-100, the OHM related to the coal tar contamination has not impacted groundwater conditions. The analytical data for UNKMW-100 are summarized in Table 19.1. During the week of April 11, 2016, fill was placed on UNKMW-100 and the monitoring well is no longer accessible.

MW-RGP-8 is located within the former excavation of RGP-8, where gasoline-contaminated soils were encountered and excavated. Refer to Section 4.14 for additional details. On March 22, 2016, GEC sampled MW-RGP8. The depth to water was 11.45 feet and the depth to bottom was 19.47 feet from the top of riser. GEC installed portions of the monitoring well as processed soils were placed in the surrounding area. The monitoring well consists of a ten (10) foot screen and (10) feet of riser. GEC purged approximately 1.3 gallons. Groundwater samples were collected at MW-RGP8 using low-flow sampling methodology. A 0.75-inch Geotech bladder pump was utilized with a QED MP-50 controller to purge monitoring wells at a controlled rate. Inorganic parameters, including temperature, conductivity, dissolved oxygen, pH, and oxidation/reduction potential, were monitored while purging using a YSI 6820 multi parameter water quality meter. The turbidity was monitored using a separate turbidity meter. When these parameters stabilized, indicating good communication between the well and surrounding aquifer, groundwater samples were collected. Samples collected to determine dissolved OHM levels were field-filtered using a 0.45 micron filter, prior to preserving. The filtered and non-filtered groundwater sample for MW-RGP8 was submitted to Con-Test for analysis of EPH via MassDEP 04-1.1, VPH via MassDEP 04-1.1, and PAHs via USEPA Method 8270D. The following low molecular weight PAHs, consistent with a gasoline release, were detected in the filtered and/or non-filtered groundwater samples: naphthalene; 2-methylnaphthalene; acenaphthene; and phenanthrene. The levels detected are relatively low, and none exceeded its MCP Method 1 GW-1, GW-2 or GW-3 standards. Between 37 and 86% of the light molecular weight PAH contamination appears to be dissolved phase, as demonstrated in the table below.

PAH	Analytical Method	Total Concentration (µg/l)	Dissolved Concentration (µg/l)	% Dissolved
Naphthalene	MassDEP	11	9.5	86
Naphthalene	8270D	15	5.6	37
2-Methyl-naphthalene	8270D	1.3	<1.0	<0.77
Phenanthrene	8270D	0.43	0.16	37
Acenaphthene	8270D	0.85	0.34	40

No VPH subsets, target VOCs, EPH subsets or heavier weight PAH contamination were detected in the filtered and non-filtered groundwater samples from MW-RGP8. These results indicate the following: (1) the lighter elements of the gasoline release (i.e., aromatic VOCs and VPH subsets have degraded; and (2) the residual gasoline contamination has not resulted in the dissolution in groundwater of the heavier PAHs present in soils via co-solution. The levels of residual groundwater contamination from the old gasoline release is currently insignificant in that it is unlikely to be a significant source of vapor migration to a future building or structure, it is unlikely to significantly

impact the nearby Blue Hill River or its wetlands, and it is not significantly a Class A groundwater. Refer to Table 19.2 for a summary of the analytical data for MW-RGP8.

On August 16, 2017 GAP Mountain Drilling LLC of New Hampshire installed an irrigation only well (IR-1) for the entire property on the northern side of Building 3. The well was installed to a depth of 550 feet. Static groundwater was encountered at 20 feet BLS, which indicated an artesian condition of 5-6 feet above the adjacent wetland level. The well was initially producing approximately 25 gallons per minute (gpm). After hydrostatic pressurization, the well yielded to 40 gpm. GAP Drilling purged three well volumes after installation to eliminate fine sediments. The Randolph Board of Health (BOH) issued a permit requiring semi-annual testing for 3 years. The BOH required IR-1 to be tested according to the MA Drinking Water Private Well Standards (MA DEP 2008 Tables 8 & 9). According to laboratory results, all constituents were found to be non-detect or below drinking water standards with the exception of Total and Dissolved Sodium (as NaCl). However, according to surrounding data for the Blue Hills River, Sodium levels reported in IR-1 are below that of reported levels in the Blue Hills River and the Great Pond Reservoir. Sodium levels coincide with salt used on roads for deicing during freezes. Therefore there are no concerns for contamination regarding the water used for irrigation across the Residences at Great Pond. Refer to Table 19.3 for a summary of the analytical data for IR-1.

4.24 Stained Concrete Analytical Data

During soil excavation and processing, stained concrete was removed from the soils. An evaluation was conducted to determine if the on-Site re-use of stained concrete could be done. As part of this evaluation, a sample of stained concrete was collected on November 3, 2015 and submitted to Con-Test for analysis of MA14 metals via USEPA Methods 6010C and 7471B. On November 12, 2015, six additional stained concrete samples were collected and submitted to Con-Test for analysis of SVOCs via USEPA Method 8270D; PCBs via USEPA Method 8082A; MA14 metals via USEPA Method 6010C and 7471B; hexavalent chromium, pH and oxidation-reduction potential via USEPA Methods 7196A, 9045C and SM2580A; and SPLP arsenic and chromium via USEPA Method 6020A. Refer to Table 20 for a summary of the analytical data.

The stained concrete contained arsenic, isophorone and low levels of other metals, PAHs and bis(2-ethylhexyl)phthalate. In four of seven stained concrete samples, the arsenic levels were detected above both MassDEP's background concentration for soils associated with fill containing coal ash or wood ash and the Method 1 S-1 soil standards. The levels detected were higher than the levels detected in the Site soils. Also, isophorone, which is used in coatings, was detected in the concrete samples at levels ranging from 12 to 32 mg/kg. Synthetic Precipitation Leachate Testing was conducted on six stained concrete samples for arsenic and chromium. No arsenic was detected. Chromium was detected at levels up to 86 µg/l, which is a level less than but approaching the Method 1 GW-1 groundwater standard and the Massachusetts Maximum Contaminant Level (MMCL) of 100 µg/l. Based on the foregoing, a decision was made not to re-use the stained concrete on-Site. Refer to Section 6.1 for information on the off-site transport of the stained concrete.

5.0 STATEMENT OF FINDINGS AND CONCLUSIONS

This Construction RAM was conducted in conjunction with a Remediation RAM to prepare Lots 37 and 42 for construction of a residential apartment complex, consisting of five apartment buildings, a club house with swimming pool, and paved parking areas. These two lots, located on Pacella Park Drive in Randolph, Massachusetts, were the location of historic placement of fill from the construction of the Orange Line and from demolition of a Roxbury Mill complex during the 1970's. In areas of these lots, the soils contained lead, coal tar and PCBs. In addition, a significant amount of

rock / boulders, concrete, brick, railroad ties and rails, and other solids were present in the fill, which made the soils unsuitable for structurally supporting buildings. The Construction and Remediation RAMs were conducted for the following purposes: (1) to remediate those areas of the two lots where significant contamination was located; (2) to remove the solids from the soils and process the soils to increase its structural strength; and (3) to improve storm water handling for the two lots and Pacella Park Drive. The two RAMs were conducted concurrently; however, the Remediation RAM was initiated and completed first. The RAM Completion Report has or will be submitted for the Remediation RAM.

The two RAMs entailed excavation of discrete points that were identified as contaminated: (1) Lot 37 EP1 (lead); (2) Lot 42 EP1A (PCBs);(3) Lot 42 EP2B (lead); (4) Lot 42 EP3A (coal tar); and (5) Lot 42 EP3C (PAHs). During the RAMs, other areas of contamination were discovered and were assigned identifiers RGP-1 to RGP-13, RGP-345 and RGP-3456; many of these areas are associated with Lot 42 EP3A.

During the two RAMs, approximately 207,900 cubic yards of soils and other solid materials were excavated from Lots 37 and 42. Of this material approximately 73,000 cubic yards consisted of solid materials, such as boulders/rocks, concrete, brick, asphalt, rebar, railroad ties and rails, tires and other debris. The rocks/boulders, unpainted/unstained concrete and unpainted/unstained brick were re-used on-Site, either by crushing and using to increase the structural strength of the soils or as rip rap along the embankment of the retention basins/drainage swale and the slope leading to the Blue Hill River. Asphalt was also re-used on-Site. It was crushed and used as base material beneath the paved parking lot for Building 4. Other solid materials were either shipped off-site for recycling (e.g., metals) or disposal.

Of the approximately 134,900 cubic yards of soils, approximately 5,816 cubic yards of contaminated soils were placed in on-Site soil repositories, approximately 7,095 cubic yards of <1 mg/kg PCB-contaminated soils were placed beneath the footprints of future Buildings 1, 2 and 3, and approximately 9,900 cubic yards of contaminated soils were transported off-site for treatment (mostly coal tar and coal tar-contaminated soils) or for re-use as daily landfill cover (mostly PAH-contaminated soils for which there was inadequate space to put in on-Site soil repositories). The soils placed in repositories originated from the following locations:

1. Lot 37 EP1 and Lot 42 EP2B: These soils contained elevated levels of lead and were treated, as needed under the Remediation RAM, to reduce its TCLP lead levels to below 5 mg/l (the RCRA TCLP lead criterion).
2. Lot 42 EP3C, RGP-1, RGP-3, RGP-6, RGP-3456 and RGP-9: These soils contained moderately elevated levels of PAHs, but little to no volatile PAHs.
3. Lot 42 EP1A: These soils contained PCBs at levels ranging up to 9.2 mg/kg, based on pre-excavation analytical data. During the excavation of these soils, PCBs were detected at levels ranging up to 4.79 mg/kg out of 205 samples analyzed.

The lead- and PAH-contaminated soils were placed in soil repositories located more than 15 feet below final grade. These repositories are located beneath Building 4, the club house and the parking lot of Building 3. These soils were placed at depths such that there would be no exposure to residents, utility workers or construction workers under the MCP definition of soil exposure intervals for these receptors.

Approximately 8,195 cubic yards of PCB-contaminated soils (with a small amount containing coal ash) were excavated from Lot 42 EP1A. The soils containing between 1 and 5 mg/kg PCBs (approximately 1,100 cubic yards) were placed in a soil repository beneath Building 1, located 14 feet or more below grade. The soils containing between 3 and 5 mg/kg PCBs or containing coal ash were placed at the bottom of the Building 1 repository, at depth intervals ranging from 18.5 to 20.5 feet below final grade. During the initial Risk Characterization, documented in the Phase I Initial Site Investigation, the exposure point concentrations for PCBs in this location were determined to be 1.4

mg/kg for the 0-3 foot interval and 2.5 mg/kg for the 0-6 and 0-15 foot intervals (based on 95th percentile confidence limits on the mean). No Significant Risk of harm was determined to exist for Lot 42 EP1A for residents, utility workers and construction workers. A decision was made to place the PCB-contaminated soils as deep as possible to minimize future potential for PCB exposure. Therefore, No Significant Risk of harm was determined to still exist for Lot 42 EP1A after moving the PCB-contaminated soils deeper. During excavation, the PCB-contaminated soils were found to be co-located with railroad ties and ballast stone. This material likely originated from the Orange Line.

Approximately 7,095 cubic yards of soils excavated from Lot 42 EP1A contained less than 1 mg/kg PCBs. These soils were placed mostly over the PCB-contaminated soils beneath Building 1, with a small volume (approximately 100 cubic yards) beneath Buildings 2 and 3. These soils are not considered as being within a soil repository, but were placed beneath a building to minimize the potential for future contact. There is no Significant Risk of harm from exposure to these soils.

Confirmatory sidewall and bottom samples were collected and analyzed to determine whether each distinctive excavation area was sufficiently excavated. The decision was based on a comparison to Site-specific clean-up standards or on a Site-specific risk assessment, as described below for each area:

1. Lot 37 EP1 and Lot 42 EP2B: Excavation conducted until all confirmatory soil samples contained less than Site-specific clean-up standard for lead (i.e., 600 mg/kg).
2. Lot 42 EP3A (also called RGP-7), Lot 42 EP3C, RGP-1, RGP-2, RGP-7, RGP-8, RGP-9, RGP-10 and RGP-12: Excavation conducted until No Significant Risk of harm was found to exist based on individual Site-specific risk assessments using confirmatory soil samples.
3. RGP-345 (which also includes RGP-3, RGP-4, RGP-5, RGP-6 and RGP-3456): Excavation conducted until No Significant Risk of harm was found to exist based on Site-specific risk assessment using confirmatory soil samples.

Two RGP locations (RGP-11 and RGP-13) were initially identified as suspect contaminated areas, but were found not to be significantly contaminated based on the results of soil sampling and a Site-specific risk assessment. These two areas were not excavated separately, but were included in the Site-wide soil excavation.

Approximately 112,100 cubic yards of Site soils were excavated (exclusive of solid debris) outside of the separate remedial areas. During the initial Risk Characterization, documented in the Phase I Initial Site Investigation, No Significant Risk of harm was found to exist for these soils. These soils were processed to increase structural strength, then were re-used on-Site to support building construction and grading of the two lots. Most of these soils will be or are covered by building foundations or paved parking areas.

The sedimentation basin used to manage storm water during construction was converted into a wetland to receive storm drainage from the apartment complex and Pacella Park Drive. Two rain gardens were installed to handle some of the roof drainage. A storm water drainage system, consisting of drain lines, catch basins, etc., was installed.

All excavated soils have either been removed from the Site, re-used on-Site or placed in on-Site soil repositories. Based on the results of the two RAMs, No Significant Risk of harm has been achieved. This Construction RAM is complete.

6.0 MANAGEMENT OF REMEDIATION WASTE, REMEDIAL WASTEWATER AND / OR REMEDIAL ADDITIVES

6.1 Remediation Waste and Other Solid Waste

During the Construction and Remediation RAMs, approximately 207,900 cubic yards of soils and other solid materials were excavated from Lots 37 and 42. Of this material, approximately 73,000

cubic yards consisted of solid materials, such as boulders/rocks, concrete, brick, asphalt, rebar, railroad ties, railroad tracks, metals, tires and other debris. For the remaining 134,900 cubic yards of soils, approximately 5,816 cubic yards of PAH-, PCB- or lead-contaminated soils were placed in on-Site soil repositories, approximately 7,095 cubic yards of <1 mg/kg PCB-contaminated soils were placed beneath the footprints of Buildings 1, 2 and 3 (not considered within a repository), and approximately 9,900 cubic yards of contaminated soils / coal tar were transported off-site for treatment or disposal. The disposition of the solid materials and contaminated soils is described below. The remaining approximately 112,100 cubic yards of soils were processed to increase structural strength, as needed, then were re-used on-Site to support building construction and grading of the two lots. Most of these soils will be or are covered by building foundations (five apartment buildings and the club house) or paved parking areas.

Placement in On-Site Soil Repositories located 15 Feet or more below Final Grade

Excavated soils of the Site are considered Remediation Waste because the levels of OHM detected in the soils exceed notification thresholds. Some of the soils are considered Hazardous Waste. The lead-contaminated soils, which had TCLP lead levels greater than the RCRA criterion of 5 mg/l, were considered hazardous waste and were treated to reduce the TCLP levels to acceptable levels to allow on-Site placement in soil repositories. For Lot 37 EP1 and Lot 42 EP2B, treated and untreated lead-contaminated soils were placed in on-Site soil repositories at depths more than 15 feet below final grade. Additionally, PAH-contaminated soils of Lot 42 EP3C, RGP-1, RGP-3, RGP-3456, RGP-6 and RGP-9 were determined to be suitable for on-Site placement at depth based on the results of disposal criteria testing or confirmatory testing. Because there was insufficient capacity at depths more than 15 feet below grade to store all these soils in on-Site repositories, some of the soils from Lot 42 EP3C, RGP-1 and RGP-6 were transported off-site for disposition under the Remediation RAM. Three soil repository areas were created beneath the future Building 4 and adjacent parking lot, the future clubhouse and surrounding vicinity, and the parking lot adjacent to the future Building 3. The location and elevation of each soil repository area was surveyed and marked prior to the beginning of backfilling.

Provided below is a table with a description of the soils excavated and placed in on-Site Soil Repositories at depths more than 15 feet below final grade. Refer to Figure 4E for the location and elevation of the on-Site soil repository areas.

Origin	Description	Final Location
Lot 37 EP1	~700 cubic yards of lead-contaminated soils	Placed between elevations 118 and 125 feet MSL, at future location of Building 4
Lot 42 EP2B	~ 968 cubic yards of lead-contaminated soils	Placed between elevations 118 and 125 feet MSL, at future location of Building 4
RGP-1	~240 cubic yards of PAH-contaminated soils	Placed between elevations 118 and 125 feet MSL, at future location of Building 4
RGP-6	~110 cubic yards of PAH-contaminated soils	Placed between elevations 118 and 125 feet MSL, at future location of Building 4
Lot 37 EP1	~ 275 cubic yards of lead-contaminated soils	Placed between elevations 119 and 124 feet MSL, at future location of clubhouse
Lot 42 EP2B	~1,452 cubic yards of lead-contaminated soils	Placed between elevations 119 and 126 feet MSL, at future location of clubhouse
RGP-3456	~150 cubic yards of PAH-contaminated soils	Placed between elevations 118 and 124 feet MSL, at future location of clubhouse

RGP-1	~55 cubic yards of PAH-contaminated soils	Placed between elevations 124 and 126 feet MSL, at future location of clubhouse
Lot 42 EP3C (42-4-2 SP)	~100 cubic yards of PAH-contaminated soils	Placed between elevations 124 and 126 feet MSL, at future location of clubhouse
RGP-9	~50 cubic yards of PAH-contaminated soils	Placed at elevation 126 feet MSL, at future location of clubhouse
RGP-6	~50 cubic yards of PAH-contaminated soils	Placed between elevations 126 and 127 feet MSL, at future location of clubhouse
Lot 42 EP2B	~ 480 cubic yards of lead-contaminated soils	Placed between elevations 118 and 121 MSL, at future location Building 3's parking lot.
RGP-3	~86 cubic yards of PAH-contaminated soils	Placed between elevations 119 and 120 MSL, at future location Building 3's parking lot.

Placement in On-Site Soil Repository located beneath future Building 1

The PCB-contaminated soils from Lot 42 EP1A were placed in a fourth soil repository identified as the Building 1 soil repository. The soils containing more than 1 mg/kg PCBs were placed more than 14 feet below final grade. The Building 1 repository was created at an elevation range of 135-141.5 feet above MSL. The soil repository is located beneath the future Building 1 footprint. The final grade at this location is 155.5 feet above MSL. The 135-foot above MSL elevation was surveyed and marked prior to the beginning filling operations. Due to the moisture content of the soils, the soils were treated with Portland cement as needed to increase geotechnical strength, prior to soil placement. The soils were placed in one- to two-foot lifts, then compacted and structural strength tested prior to placing the next lift. The storage capacity of this soil repository area is 1,000 cubic yards. Approximately 1,100 cubic yards of contaminated soils, which were mixed with approximately 100 cubic yards of Portland cement (to dry out and stabilize the soils for structural stability), were compacted by a factor of 1.3, or to an approximate volume of 900 cubic yards.

The soils containing between 3 and 5 mg/kg PCBs and those with evidence of coal ash, wood ash and/or coal were placed at elevations 135 to 137 feet above MSL or 18.5 to 20.5 feet below final grade. The soils containing between 1 and 3 mg/kg PCBs were placed at elevations 135 to 141.5 feet above MSL or 14 to 20.5 feet below final grade.

Re-Use Beneath Buildings 1, 2 and 3, but not within an On-Site Soil Repository

Approximately 7,095 cubic yards of soils excavated from Lot 42 EP1A contained < 1 mg/kg PCBs. Most of these soils were re-used beneath the Building 1 footprint. Approximately 100 cubic yards were also placed beneath the Buildings 2 and 3 footprint. These soils were then covered with clean processed soils and fill sand, then covered with each building's concrete slab.

Off-Site Disposition of Soils as part of Construction RAM

The only soil volumes shipped off-Site under the Construction RAM were from RGP-2 and RGP-8. The excavation and off-site transport of these soils were described in the February 2016 Construction RAM Status Report. These soils were transported off-site under Bills of Lading. The final Bills of Lading for RGP-2 and RGP-8 were not available to submit with the February 2016 Construction RAM Status Report; therefore, they are included in Appendices H and I, respectively, of the November 2016 Construction RAM Status Report. A summary of the transportation and disposition of soils from RGP-2 and RGP-8 is provided in the table below.

Origin	Description	Transporter / Shipping Date / Shipping Record	Receiving Facility	Mass of Material Received / Disposition
RGP-2	Soils with strong organic odor	Charter Environmental, Inc. / 12-18-2015 / BOL	Glenview Landfill, in Chelmsford, MA	105 tons (~80 cubic yards) / for reuse as landfill cover
RGP-8	Gasoline-contaminated soils	W.L. French Excavating Corp. / 1-15-2016 & 1-16-2016 / BOL	BFI Fall River Landfill, in Fall River, MA	1,045 tons (~645 cubic yards) / for reuse as landfill cover

Off-Site Disposition of Soils as part of Remediation RAM

Under both the Construction and Remediation RAM, approximately 9,853 cubic yards of soils were transported off-site for treatment or disposal. Of this volume, approximately 725 cubic yards were transported off-site under the Construction RAM. Provided below is a description of the off-site disposition of the remaining approximately 9,128 cubic yards of soils/coal tar that were transported off-site under the Remediation RAM. The final BOLs or Uniform Hazardous Waste Manifests are provided in the Remediation RAM Status Reports or Remediation RAM Completion Report.

Most of the soils transported off-site under the Remediation RAM consisted of coal tar and coal tar-contaminated soils. Some soils, which were contaminated with PAHs associated with ash, old petroleum or low-level coal tar contamination, were transported off-site due to lack of capacity for additional storage in deep on-Site repositories. These particular soils were excavated from Lot 42 EP3C, RGP-1, RGP-6 and RGP-12 under the Construction RAM, but were transported off-site under the Remediation RAM. The coal tar and coal tar contaminated soils mostly originated at Lot 42 EP3A, RGP-4, RGP-345, RGP-7 and RGP-10.

The coal tar contaminated soils were determined to be unsuitable for re-use on-Site, with the exception of those from RGP-3, due to existence of Significant Risk of harm to humans from contact to this material, the potential of the coal tar to result in vapors migrating to indoor air of a future residence, or the potential of the coal tar to leach to groundwater if placed at lower depths. Therefore, off-site treatment, re-use, recycling and disposal were considered potential options for disposition of this material.

Per 310 CMR 40.0032(5), contaminated media managed under the Bill of Lading (BOL) process described in 310 CMR 40.0034 shall not be disposed at a land disposal facility if a feasible alternative exists that involves the reuse, recycling, destruction, and/or detoxification of such materials. An evaluation of whether such an alternative is feasible shall consider: (a) the volume and physical characteristics of the contaminated media; (b) the levels of oil and/or hazardous materials present within the contaminated media; and (c) the relative costs of management options

The coal tar disposal characteristics were evaluated to determine whether it could be re-used off-Site, treated off-Site, recycled off-Site or disposed off-Site. The coal tar soils are not suitable for recycling at an asphalt plant and do not meet the criteria specified in MassDEP's *Reuse and Disposal of Contaminated Soil at Massachusetts Landfills* (Policy # Comm-97-001) for re-use at a lined or unlined landfill. The acceptable options identified for the coal-tar contaminated soils were landfill disposal or treatment by a method such as thermal desorption.

Soils from Lot 42 EP3A (RGP-7), RGP-4, RGP-345, and RGP-10 were transported off-Site. A summary of the transportation and disposition of soils from Lot 42 EP3A, RGP-4, RGP-345, and RGP-10 is provided in the table below.

Origin	Description	Transporter / Shipping Date / Shipping Record	Receiving Facility	Mass of Material Received / Disposition
RGP-1	~ 55 cubic yards of wood ash, possible petroleum	ESMI Loudon, 6-24-2016/3 dump truck loads under BOL	ESMI Loudon, in Loudon, NH	477.82 tons for treatment and disposal (mass total combined w/ RGP-6)
Lot 42 EP3A	~ 83 cubic yards of coal tar-contaminated soils	ESMI Loudon, 10-23-2015/ 3 dump truck loads under BOL	ESMI Loudon, in Loudon, NH	100.94 tons for treatment and disposal
Lot 42 EP2B	~ 1 cubic yard of coal tar-contaminated soils	Cyn Environmental, 11-18-2015/ 55-gallon drum under 1 UHWM	ENPRO Services of Vermont, Inc., Williston, VT	600 pounds for treatment via stabilization
RGP-4	~178 cubic yards of coal tar-contaminated	ESMI Loudon, 1-11-2016 to 1-12-2016/ 3 dump truck loads under BOL	ESMI Loudon, in Loudon, NH	301 tons for treatment and disposal
RGP-345 Stockpile SP-3	~ 300 cubic yards of coal tar-contaminated soils	Goulet Trucking, Inc. / 1-27-2016 to 2-2-2016 / 16 dump truck loads under 16 UHWM	ESMI Loudon, in Loudon, NH	528.36 tons for treatment and disposal
RGP-345 Stockpile SP-2	~ 186 cubic yards of coal tar-contaminated soils	Goulet Trucking, Inc. / 2-11-2016 to 2-17-2016 / 16 dump truck loads under 12 UHWM	ESMI Loudon, in Loudon, NH	398.66 tons for treatment and disposal
RGP-345 Stockpile SP-1[1]	~ 253 cubic yards of coal tar-contaminated soils	W.L French Excavating Corp. / 2-17-2016 to 2-22-2016 / 19 dump truck loads under 14 BOL	Turnkey Landfill, Rochester, NH	504.02 tons for use as daily landfill cover (disposal)
RGP-345 Stockpiles SP-5 to SP-12	~ 922 cubic yards of coal tar contaminated soils	Goulet Trucking, Inc. / 3-15-2016 to 4-25-2016 / 41 dump truck loads under 41 UHWM	ESMI Loudon, in Loudon, NH	1321.97 tons for treatment and disposal
RGP-345 Stockpile SP-4	~ 100 cubic yards of coal tar contaminated soils	Goulet Trucking, Inc. / 4-15-2016 / 4 dump truck loads under BOL	ESMI Loudon, in Loudon, NH	122.26 tons for use as daily landfill cover
RGP-345 Stockpile	~ 1300 cubic yards of coal tar contaminated soils	Goulet Trucking, Inc. / 4-25-2016 to 5-26-2016 / 65 dump	ESMI Loudon, in Loudon, NH	2169.36 tons for treatment and disposal

West of Lot 42 EP2B		truck loads under 65 UHWM		
RGP-345 Live-loaded	~ 616 cubic yards of coal tar contaminated soils	Goulet Trucking, Inc. / 5-31-2016 to 8-2-2016 / 27 dump truck loads under 27 UHWM	ESMI Loudon, in Loudon, NH	867.27 tons for treatment and disposal
RGP-345 Live-loaded	~ 3,190 cubic yards of coal tar contaminated soils	Goulet Trucking, Inc. / 5-31-2016 to 8-2-2016 / 63 dump truck loads under 63 UHWM	Recupere Sol, Saint Ambroise, Quebec City	4914.59 tons for treatment and disposal
RGP-345 Live-loaded	~ 646 cubic yards of coal tar contaminated soils	Page E.T.C. Inc. / 5-31-2016 to 8-2-2016 / 38 dump truck loads under 38 UHWM	Recupere Sol, Saint Ambroise, Quebec City	1521.28 tons for treatment and disposal
RGP-6	~145 cubic yards of wood ash, possibly petroleum, contaminated soils	ESMI Loudon, 6-24-2016 to 6-28-2016, 111 dump truck loads under BOL	ESMI Loudon, in Loudon, NH	477.82 tons for treatment and disposal (mass total combined with RGP-1)
RGP-7	~ 185 cubic yards of residual contamination from coal tar area Lot 42 EP3A	ESMI Loudon, 6-30-2016/ 4 dump truck loads under BOL Goulet Trucking, Inc. / 6-30-2016 to 7-1-2016 / 10 dump truck loads under BOL	ESMI Loudon, in Loudon, NH	921.21 tons for treatment and disposal (mass total combined w/ 42 EP3C)
RGP-10 Stockpile SP-1[1]	~ 60 cubic yards of coal tar contaminated soil	ESMI Loudon, 5-25-2016/ 5 dump truck loads under BOL	ESMI Loudon, in Loudon, NH	181.87 tons for treatment and disposal
RGP-10 Stockpile SP-2	~ 120 cubic yards of coal tar contaminated soil	ESMI Loudon, 6-10-2016/ 6 dump truck loads under BOL	ESMI Loudon, in Loudon, NH	203.31 tons for treatment and disposal
RGP-10 Stockpiles SP-3 and SP-4	~ 200 cubic yards of coal tar contaminated soil	ESMI Loudon, 7-6-2016 and 7-6-2016/ 8 dump truck loads under BOL	ESMI Loudon, in Loudon, NH	490.89 tons for treatment and disposal (mass total combined w/ RGP-1)
Lot 42 EP3C	~ 260 cubic yards of PAH-contaminated soils	ESMI Loudon, 7-6-2016 to 7-6-2016, 10 dump truck loads under BOL	ESMI Loudon, in Loudon, NH	921.21 tons for treatment and disposal (mass total combined with RGP-7)

RGP-12	~ 168 cubic yards of stained clay and fragments of coal tar	Goulet Trucking, Inc. / 7-21-2016 and 7-22-2016 / 8 dump truck loads under BOL	ESMI Loudon, in Loudon, NH	342.63 tons for treatment and disposal
RGP-10 Live-loaded	~70 cubic yards of coal tar contaminated soil	ESMI Loudon, 9-26-2016/ 3 dump truck loads under BOL	ESMI Loudon, in Loudon, NH	107.20 tons for treatment and disposal
RGP-10 Stockpiles	~90 cubic yards of contaminated soil	ESMI Loudon, 9-30-2016/ 4 dump truck loads under BOL	ESMI Loudon, in Loudon, NH	115.91 tons for treatment and disposal

1. Only 253 cubic yards of coal-tar contaminated soils were transported off-site for landfill disposal. Given the expenditures for on-site treatment and re-use of lead-contaminated soils and for off-site treatment of coal tar-contaminated soils, the approximately $100,000 savings to dispose of a small portion of the coal tar-contaminated soils is reasonable. Therefore, the portion of coal tar-contaminated soils that were suitable for landfill disposal were disposed at a landfill, and did not exceed the cumulative 500 cubic yard limit allowed for a RAM [310 CMR 40.0442(2)(a)].

Based on the Remediation RAM Plan Modification No. 2 (June 2016), the following soil volumes could be transported off-site: (1) 5,000 to 7,000 cubic yards of coal tar and grossly coal tar-contaminated soils; (2) 2,200 to 3,000 cubic yards of residually PAH-contaminated soils; and (3) 180 to 720 cubic yards of lead-contaminated soils (with TCLP lead levels less than RCRA criterion of 5 mg/l). The total coal tar-contaminated and residual PAH-contaminated soils are within the combined range of 7,200 and 10,000 cubic yards of soils of coal tar/PAH-contaminated soils identified in the RAM Plan Modification No. 2. No lead-contaminated soils were transported off-site.

Recycling, Disposal or On-Site Re-Use of Solid Material

The following solid material was recovered from the excavated soils and re-used on-Site as follows:

(1) Unstained/unpainted brick, unstained/unpainted concrete and boulders/rock:
   (a) were used as riprap along the embankment of the retention basins/drainage swale, and the slope leading towards the Blue Hill River, and
   (b) were crushed and used to augment the soils to increase structural strength of the soils.

(2) Asphalt pieces were crushed and used as base material beneath the paved parking lot of Building 4.

The unstained/unpainted brick, unstained/unpainted concrete and boulders/rocks were continually re-used during soil processing. Therefore, there are no piles of unused brick/concrete/boulders/rocks currently on-Site. All asphalt pieces were crushed and re-used.

Other solid material that were recovered from the soils consisted of metals, tires, rebar, railroad rails & ties, and miscellaneous debris. These materials were segregated by type and temporarily stored on-Site in roll-off dumpsters, until a roll off dumpster was scheduled for pick-up. These materials, depending on type, were transported off-site for either recycling or disposal. A summary of the dumpsters, including volume, contents, vendor and action date, is provided in Appendix C.

6.2 Remedial Wastewater and Other Water

Dewatering was required during the excavation of RGP-8. During late December 2015 and the first week of January 2016, approximately 864,000 gallons of water was recovered from the excavation and discharged to the recharge trench over a four-day period. Dewatering of RGP-345 was conducted at times when excavation of coal-tar contaminated material was necessary below the water table. On January 15, 2016, approximately 27,000 gallons of water was removed from the excavation during a single six-hour period and discharged to an upgradient trench for infiltration.

Dewatering also occurred during the weeks of February 29, April 24, May 2, May 23 to June 20, July 11, July 18, and August 1, 2016, which totaled a time period of 47 days. Approximately 8.9 million gallons of water was recovered from the excavation(s) and discharged to the nearby recharge trench. The recharge trench was located approximately 100 feet west of the area of excavation. Due to insufficient space, the recharge trench could not be located upgradient of the area of excavation, therefore, the trench was lined with filter fabric and quarter inch stone. Refer to Figure 4F for the locations of excavations where de-watering occurred and locations of the recharge trenches.

During periods of de-watering, infiltration was monitored to ensure that discharge to a wetland resource area did not occur. Additionally, after significant rainfall events a stormwater inspection was conducted in order to monitor all stormwater and erosion control measures were in place.

6.3 Remedial Additives

No remedial additives were used for this Construction RAM Plan. The use of remedial additives during the Remediation RAM are described in Section 6.3 of the *Release Abatement Measure (RAM) Status Report #3, Remedial Monitoring Report #3 and RAM Completion Report in Support of Remedial Activities*.

7.0 DESCRIPTION OF ONGOING ACTIVITIES RELATED TO THE RAM

No remediation waste or stockpiles of soil remain on-Site. All response actions are complete. There are no ongoing activities related to the RAM. Permanent Solution Statements will be submitted for Lot 37 (RTN 4-3023897) and Lot 42 (RTN 4-25464) in the near future.

8.0 MASSDEP REQUIREMENTS

MassDEP did not have any specific requirements for approval of this Construction RAM Plan or its modifications.

9.0 LICENSED SITE PROFESSIONAL (LSP) OPINION

The LSP-of-Record for this Site is Brian T. Butler, LSP #5736, of GEC. The Construction RAM was conducted in conformance with 310 CMR 40.0440 and the RAM Plan and three RAM Plan Modifications, with one exception. This Construction RAM Status Report was due in February 2017; however, its submittal is delayed due to the amount of RAM activities to be covered in the report. For this RAM, there were no approval conditions specified by the MassDEP.

This RAM Status Report No. 3 and RAM Completion Report is electronically submitted attached to the BWSC transmittal submittal form for Release Abatement Measures. A letter providing authorization for Brian T. Butler, LSP, GEC, to sign BWSC submittal forms on behalf of the Great Pond Residential LLC is provided in Appendix D. No Remedial Monitoring Report is needed for this Construction RAM Status Report.

RTN 4-25906 (associated with RGP-8) was linked to RTN 4-3023897 via a Tier Classification Submittal, which was submitted to MassDEP on April 26, 2017. With the completion of this RAM, further response actions for RTN 4-25906, to the extent needed, will be conducted under RTN 4-3023897. Based on MassDEP's Sites Database, the status of RTN 4-25906 is closed. RTN 4-3023897 (Lot 37) and RTN 4-25464 (Lot 42) are still active.

10.0 PUBLIC INVOLVEMENT

As part of the initial planning process, The Dolben Company, Inc., Equity Industrial Partners (prior owner) and GEC worked with the Town of Randolph to obtain the necessary permits to develop the residential apartment complex. They were informed about the planned activities at the Site. In addition, they have been notified about both RAM Plans in compliance with the MCP and the Wetland Order of Conditions.

There are no specific MCP requirements to notify the Randolph Board of Selectmen or Randolph Board of Health of the completion of RAM activities. However, the Wetland Order of Conditions issued by the Randolph Conservation Commission has conditions requiring document submittals, meetings and / or contact with the Conservation Commission. The Randolph Conservation Commission has been or will be provided with a copy of this report.

11.0 WARRANTY

The conclusions and recommendations contained in this report are based on the information presently available to GEC and upon the current regulatory climate as of December 8, 2017. GEC provides no warranties on information provided by third parties and contained herein. Data compiled was in accordance with GEC's existing standard operating procedures and should not be construed beyond its limitations. Any interpretations or use of this report other than those expressed herein are not warranted.

The use, partial use, or duplication of this report without the written consent of Goldman Environmental Consultants, Inc. is strictly prohibited. This report is subject to GEC's Contract for Consulting Services with the client.

Respectfully submitted,
Goldman Environmental Consultants, Inc.

Eileen Furlong
Eileen A. Furlong
Principal, Sr. Risk Assessor

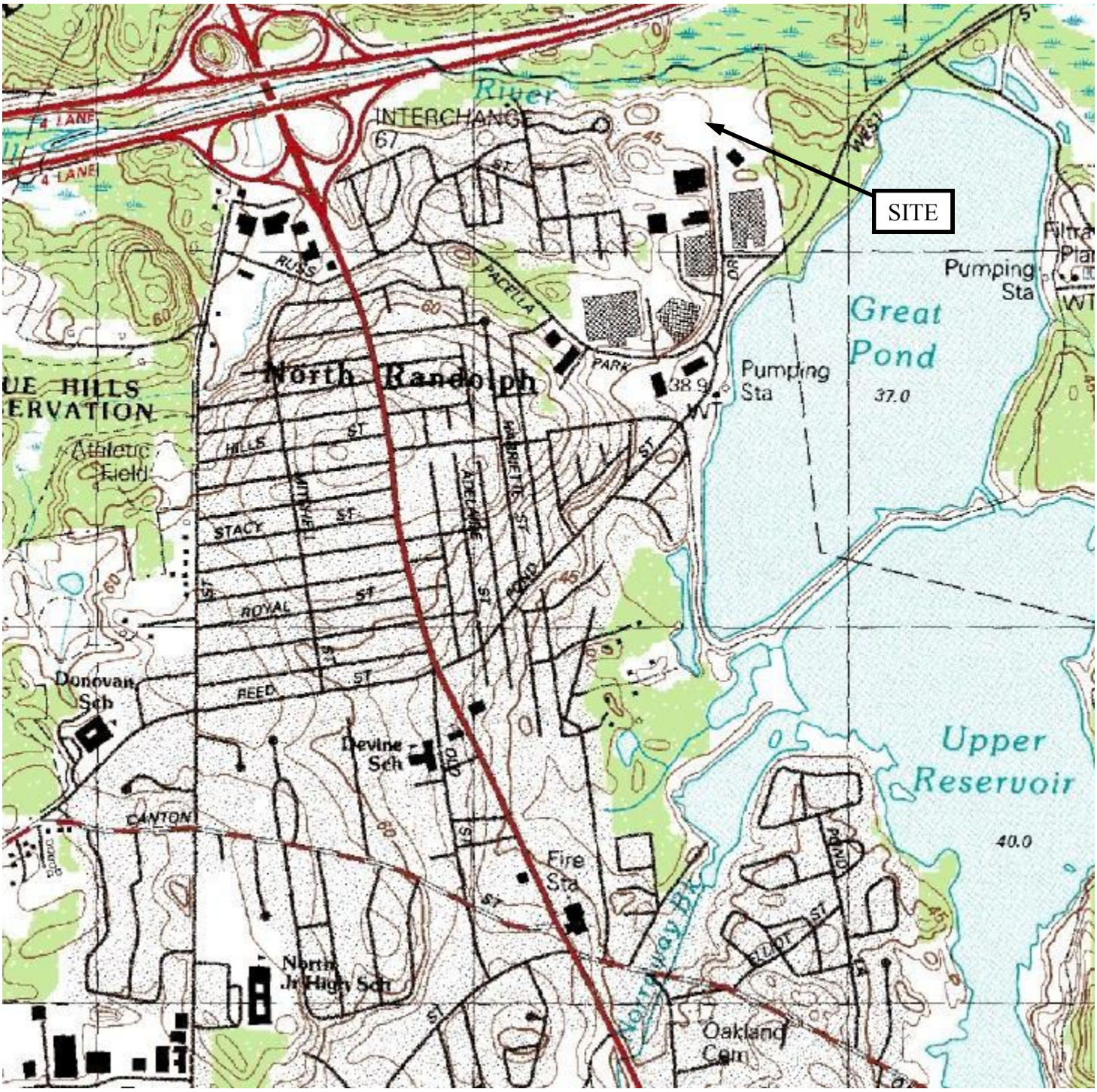
Chris Potter
Environmental Scientist

Brian Donahoe
Brian Donahoe
V.P., Environmental Services

Brian T. Butler, LSP
Sr. V.P., Operations

P:\Projects\1676-The Dolben Company, Inc\Dolben Construction RAM Plan SR No. 3

FIGURES



USGS Topographic Map Blue Hills, Massachusetts Quadrangle

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SITE LOCUS

Lots 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project #: 1676-5190

Figure 1

Scale
1 : 25,000

N

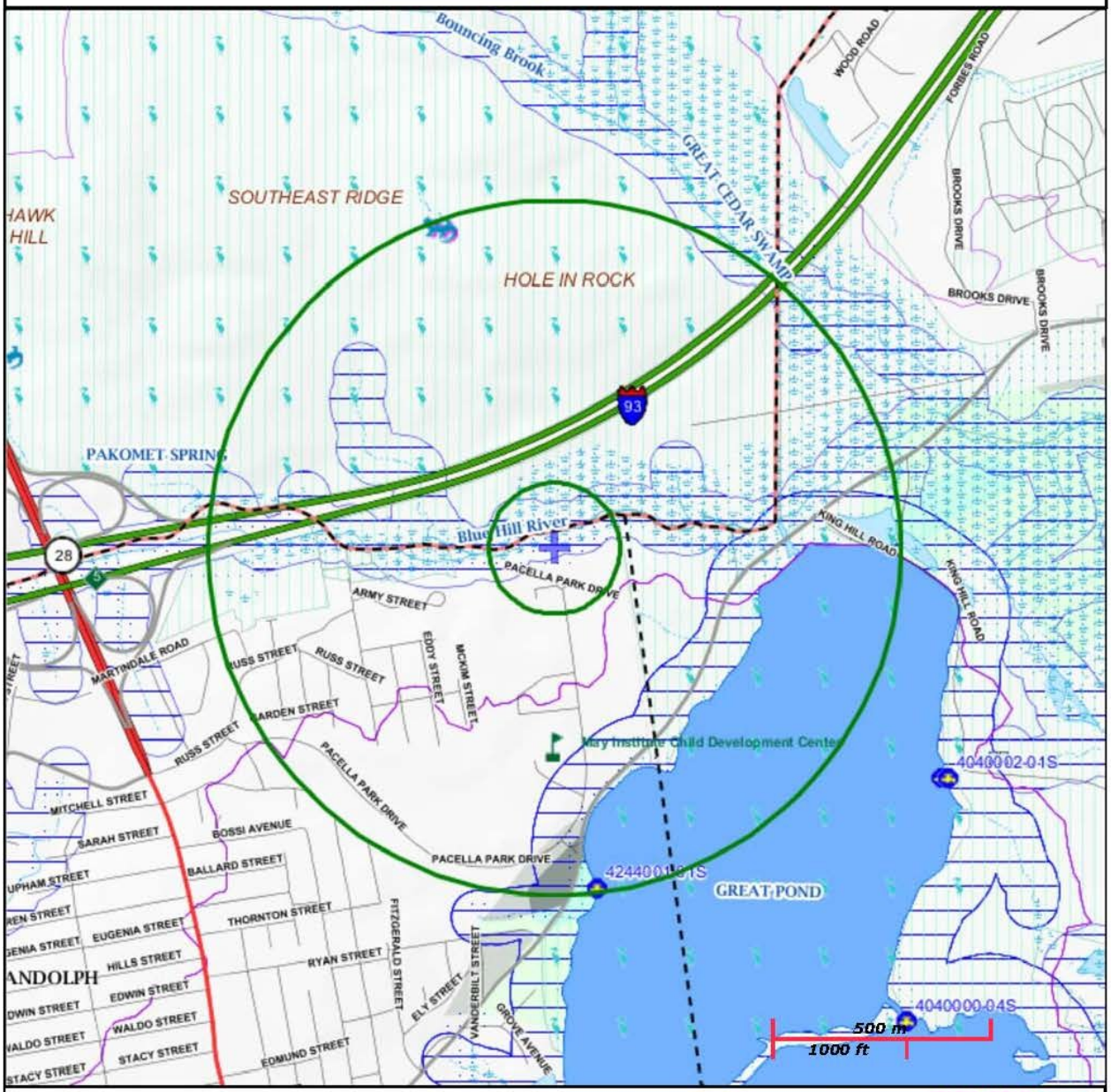
MassDEP - Bureau of Waste Site Cleanup

Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information:
15 PACELLA PARK DRIVE RANDOLPH, MA
NAD83 UTM Meters:
4674673mN , 330668mE (Zone: 19)
October 17, 2014

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: http://www.mass.gov/mgis/.

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail
Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct
Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam
Aquifers: Medium Yield, High Yield, EPA Sole Source
Non Potential Drinking Water Source Area: Medium, High (Yield)
PWS Protection Areas: Zone II, IWPA, Zone A
Hydrography: Open Water, PWS Reservoir, Tidal Flat
Wetlands: Freshwater, Saltwater, Cranberry Bog
FEMA 100yr Floodplain; Protected Open Space; ACEC
Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert., Potential
Solid Waste Landfill; PWS: Com.GW,SW, Emerg., Non-Com.

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Site Assessment Map

Lots 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

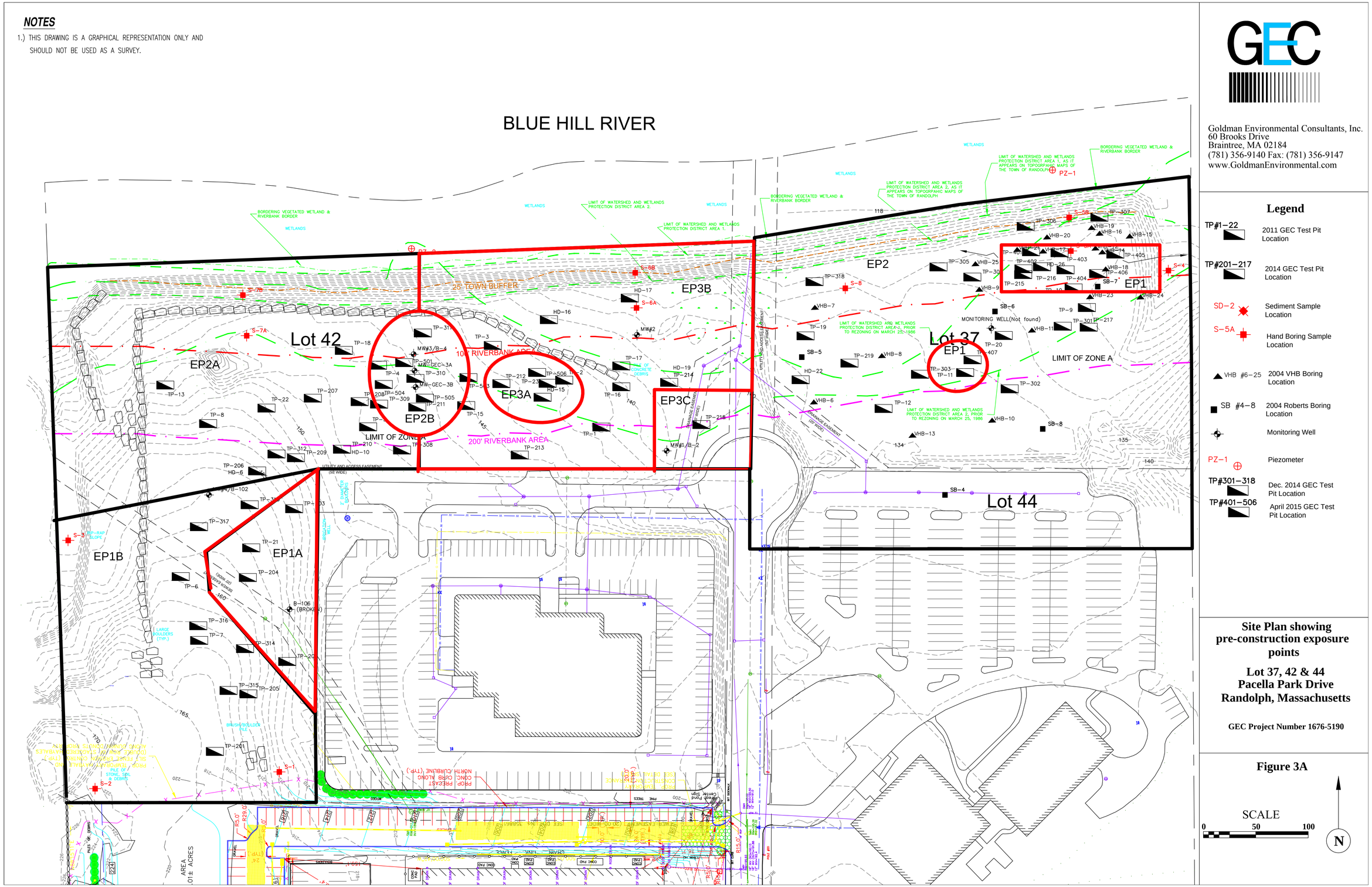
GEC Project #: 1676-5190

Figure 2

N

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.



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Legend

TP#1–22	2011 GEC Test Pit Location
TP#201–217	2014 GEC Test Pit Location
SD–2	Sediment Sample Location
S–5A	Hand Boring Sample Location
VHB #6–25	2004 VHB Boring Location
SB #4–8	2004 Roberts Boring Location
	Monitoring Well
PZ–1	Piezometer
TP#301–318	Dec. 2014 GEC Test Pit Location
TP#401–506	April 2015 GEC Test Pit Location

Site Plan showing pre-construction exposure points

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

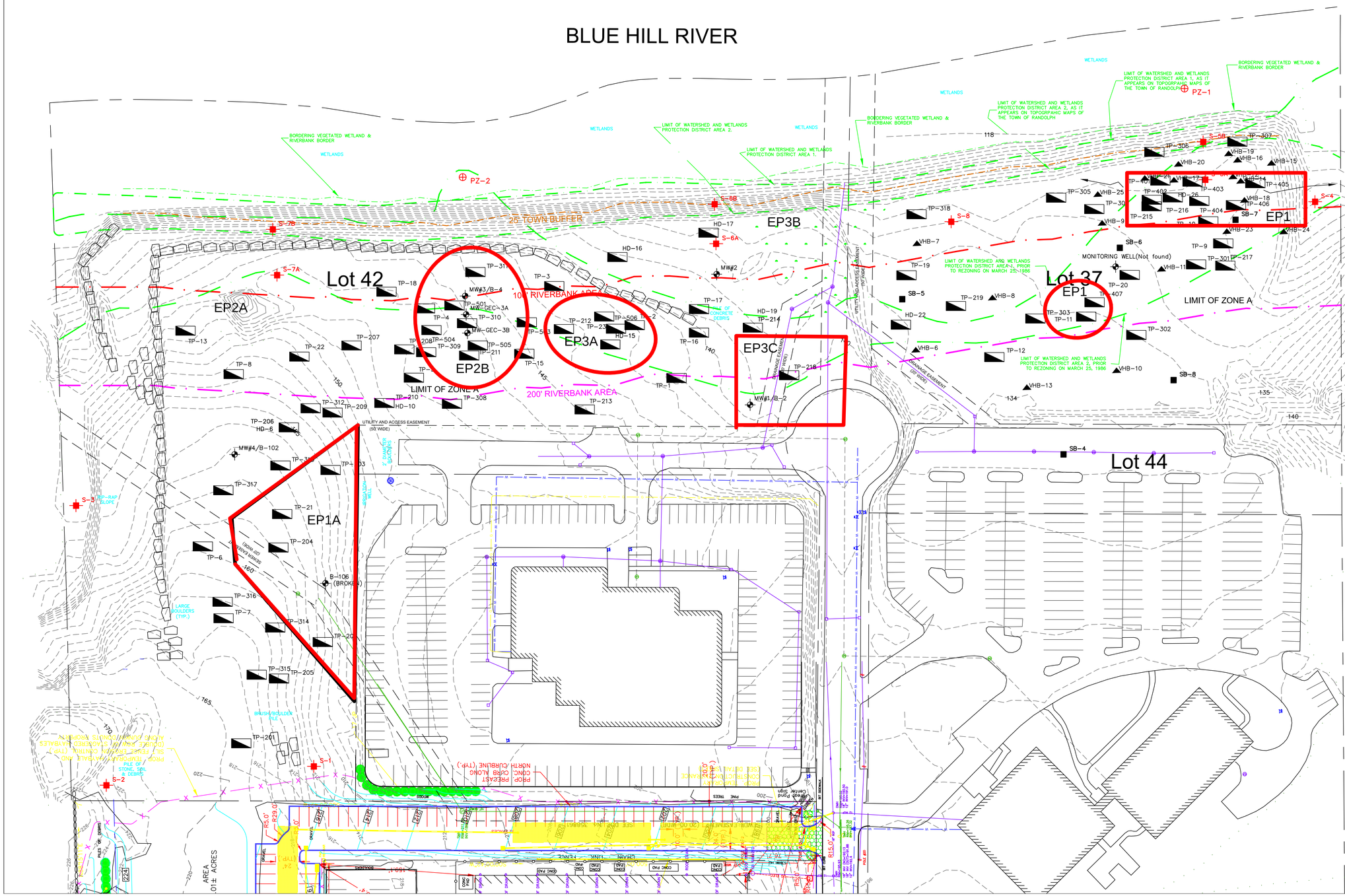
Figure 3A

SCALE
0 50 100

N

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.



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Legend

TP#1–22	2011 GEC Test Pit Location
TP#201–217	2014 GEC Test Pit Location
SD–2	Sediment Sample Location
S–5A	Hand Boring Sample Location
VHB #6–25	2004 VHB Boring Location
SB #4–8	2004 Roberts Boring Location
	Monitoring Well
PZ–1	Piezometer
TP#301–318	Dec. 2014 GEC Test Pit Location
TP#401–506	April 2015 GEC Test Pit Location
	Exposure Point

Site Plan, showing planned excavation areas for exposure points

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 3B

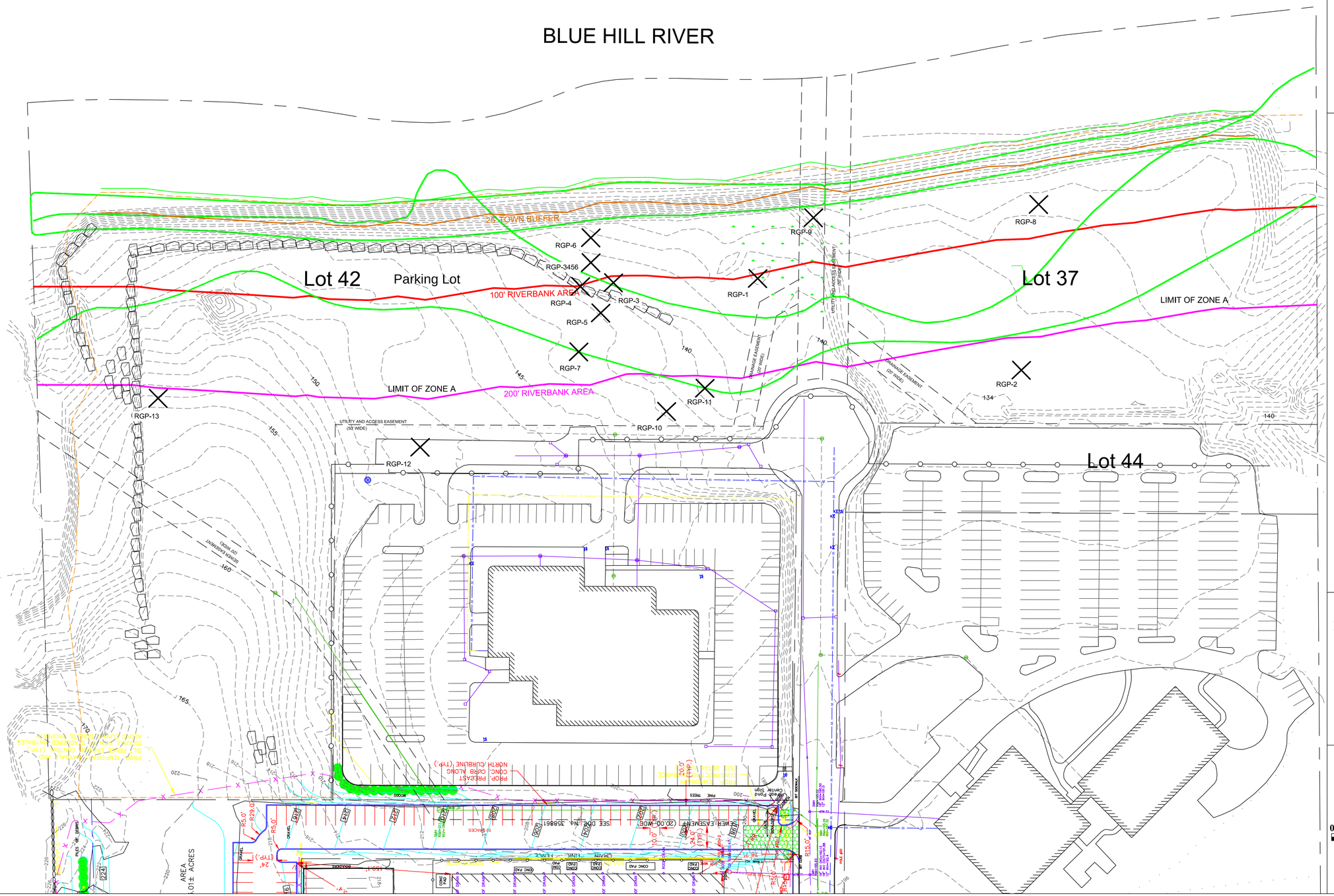
SCALE
0 50 100

N

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.

2.) RGP-345 INCLUDES RGP-5 AND PORTIONS OF RGP-3, RGP-4, RGP-5, RGP-6, AND RGP-3456.



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Legend

Limit of Watershed and Wetlands Protection District for Areas 1 and 2 Over Time

Pre-Excavation RGP Location

Site Plan, showing pre-excavation RGP Locations

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 3C

SCALE
0 50 100

N

NOTES

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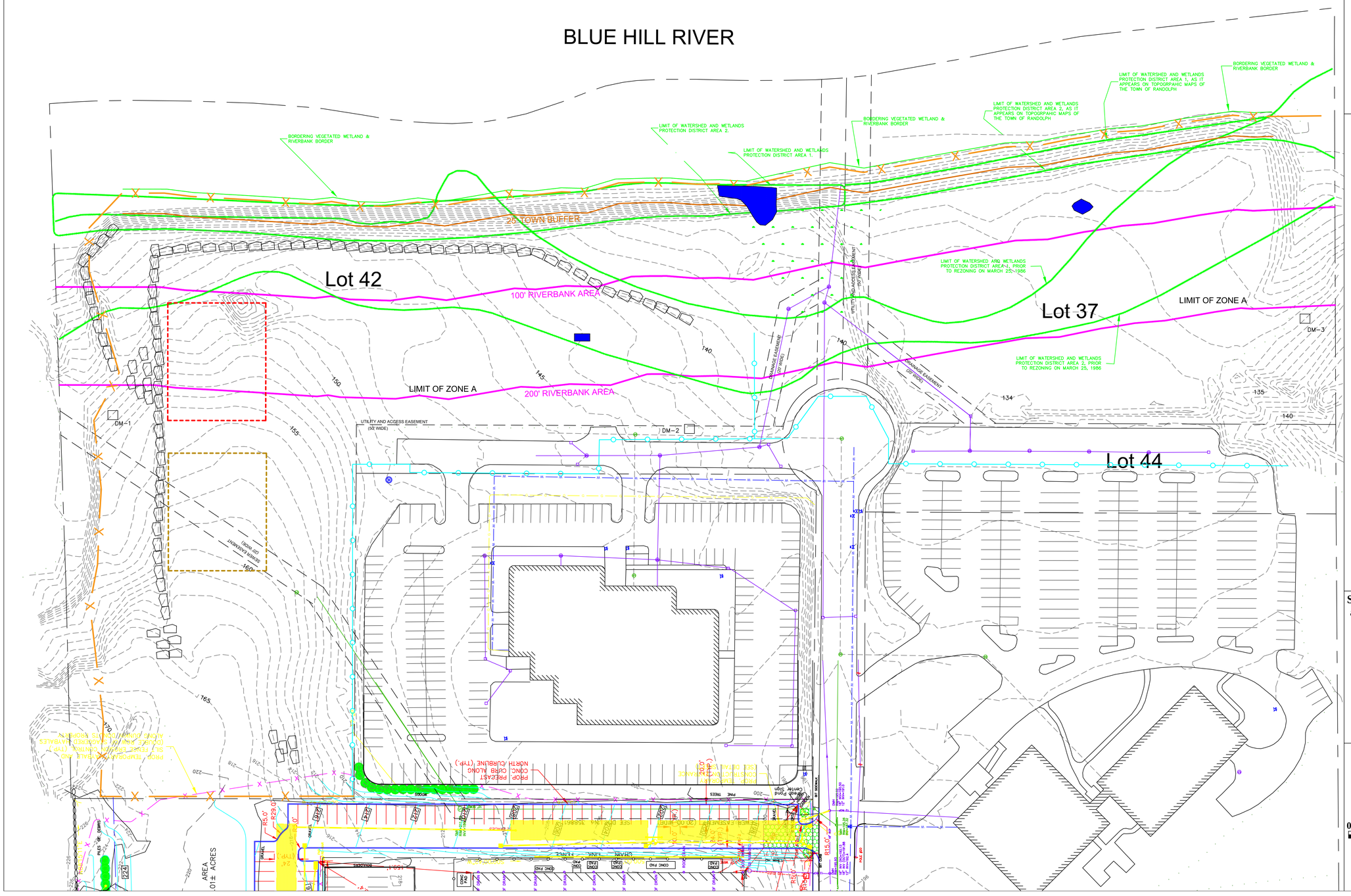

GEC

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Legend

- Wetland Boundary
- Riverfront Boundary
- Compost Filter Sock and Orange Fence
- Chain Link Fence
- Processing/Staging Area (8/15 through 8/17)
- Processing/Staging Area (8/17 through 7/18)
- DM-1 Dust Monitor
- Dewatering Trenches

Site Plan, showing compost filter sock and orange fence, processing/staging area, fences, dust monitoring areas, wetland and riverfront boundaries, trenches to accept water from de-watering

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts
GEC Project Number 1676-5190

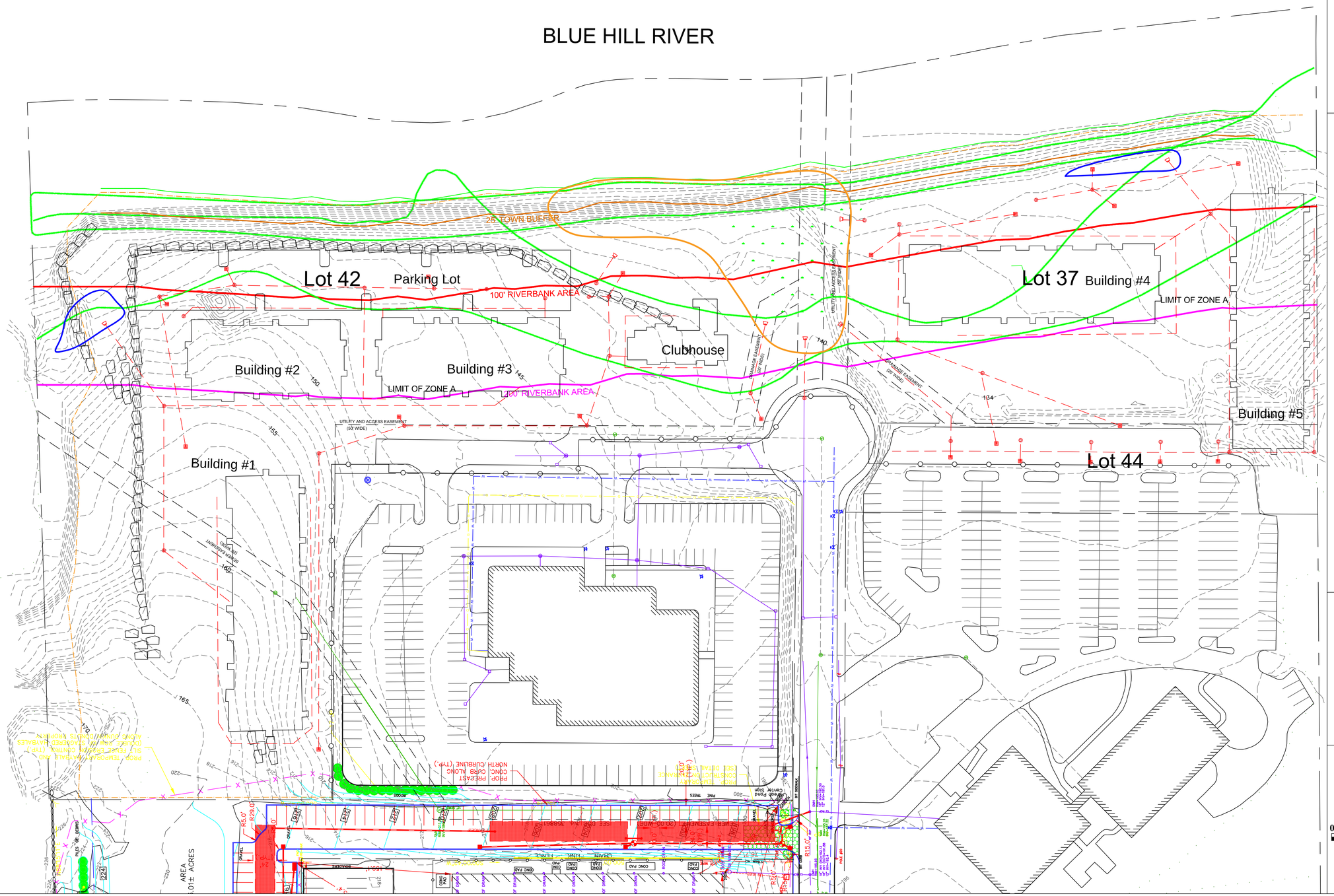
Figure 4A

SCALE
0 50 100

N

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.



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Legend

- Site Buildings/Clubhouse
- Limit of Watershed and Wetlands Protection District for Areas 1 and 2 Over Time
- Constructed Wetland
- Rain Garden
- Stormwater Drainage System
- Drainage Manhole
- Catch Basin

Site Plan, showing Final Stormwater Drainage System

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

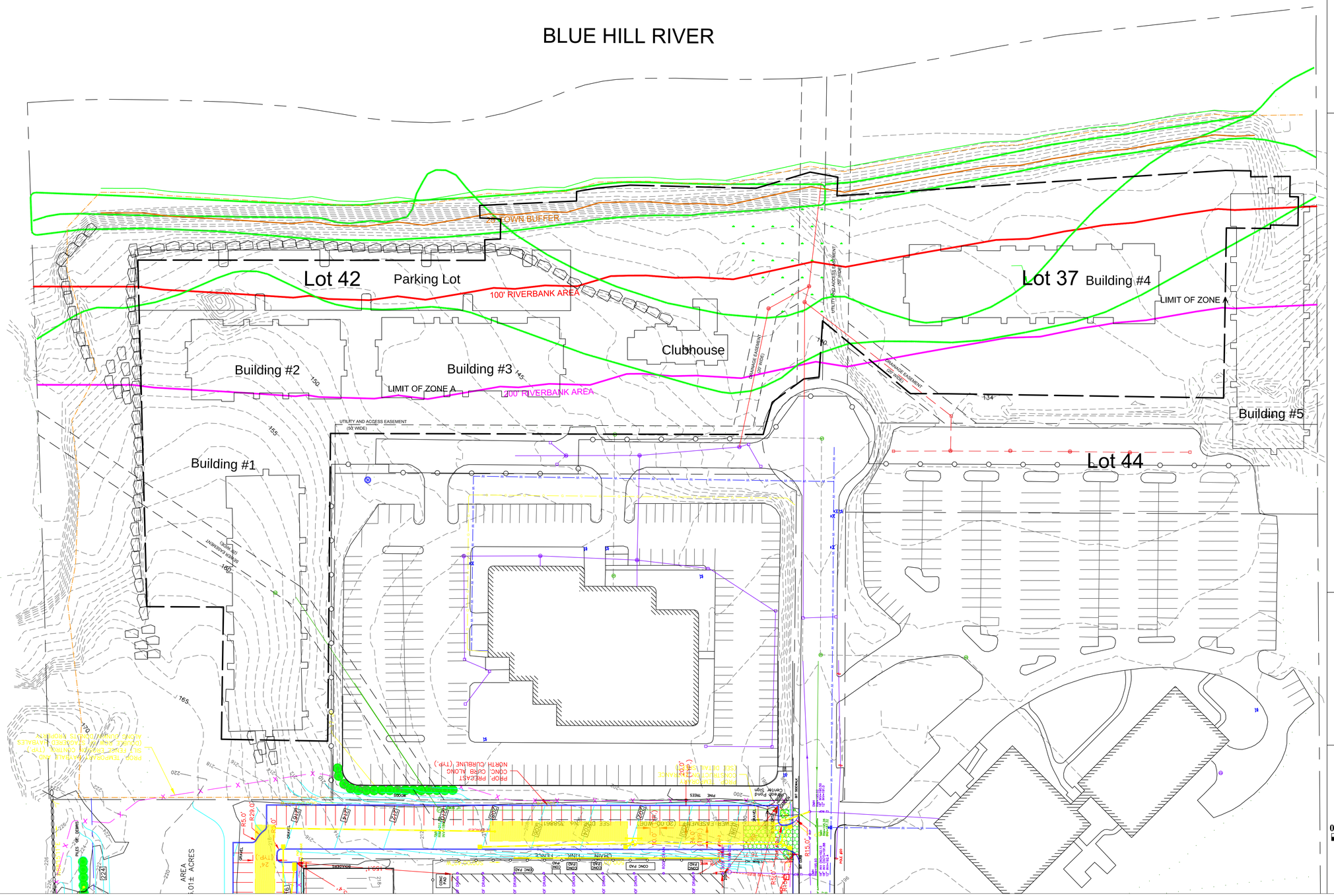
Figure 4B

SCALE
0 50 100

N

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.



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Legend

- Soil Excavation
- Site Buildings/Clubhouse
- Limit of Watershed and Wetlands Protection District for Areas 1 and 2 Over Time

Site Plan, showing Final Status of Site-wide Soil Excavation

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

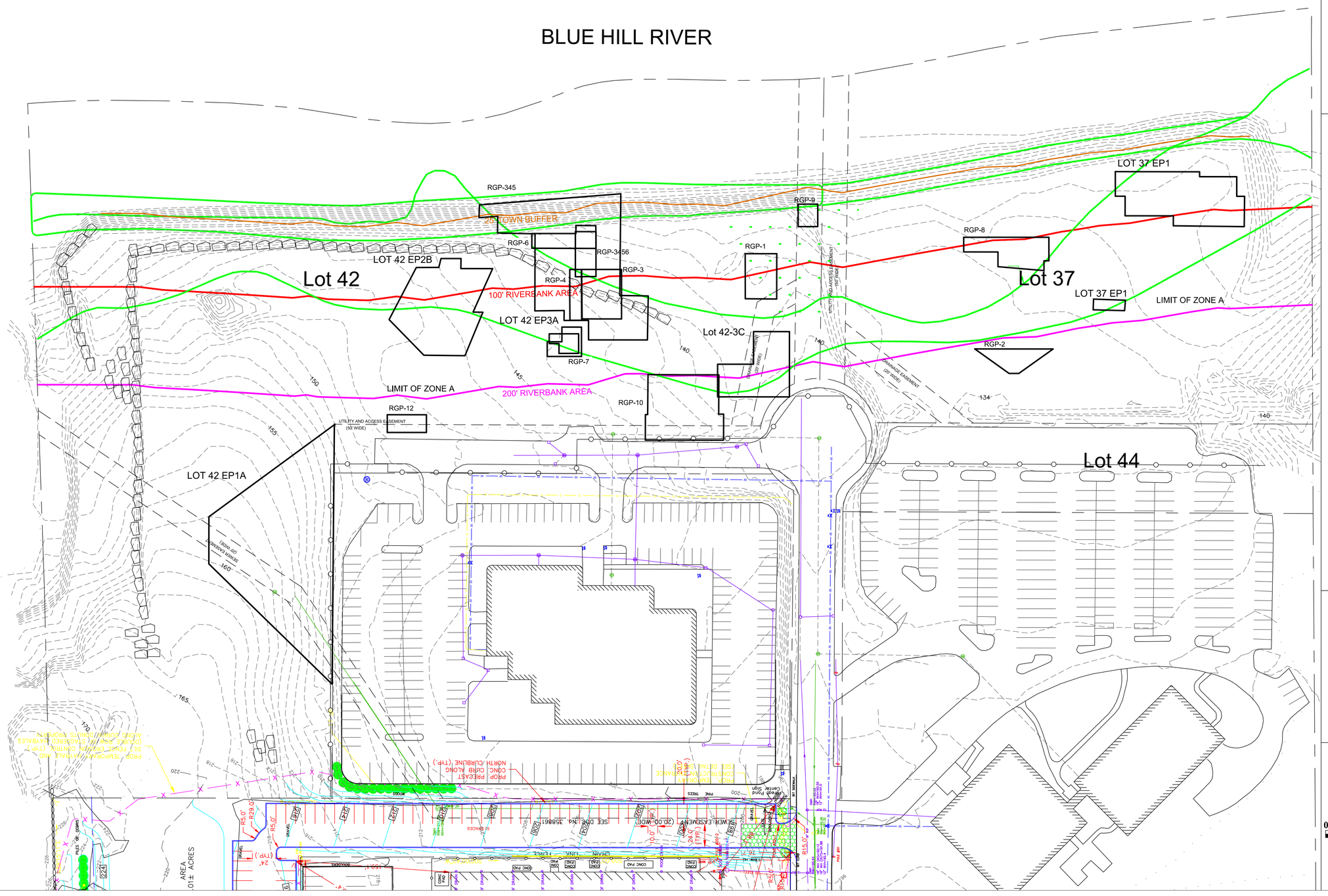
Figure 4C

SCALE
0 50 100

N

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.



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Legend

Remedial Area Excavation

Limit of Watershed and Wetlands Protection District for Areas 1 and 2 Over Time

Site Plan, showing Final Status of Remedial Area Excavations (Lot 37 EP1, Lot 42 EP1A, Lot 42 EP2B, Lot 42 EP3C, RGP-1, RGP-2, RGP-3, RGP-4, RGP-345, RGP-6, RGP-3456, RGP-7, RGP-8, RGP-9, RGP-10 and RGP-12)

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

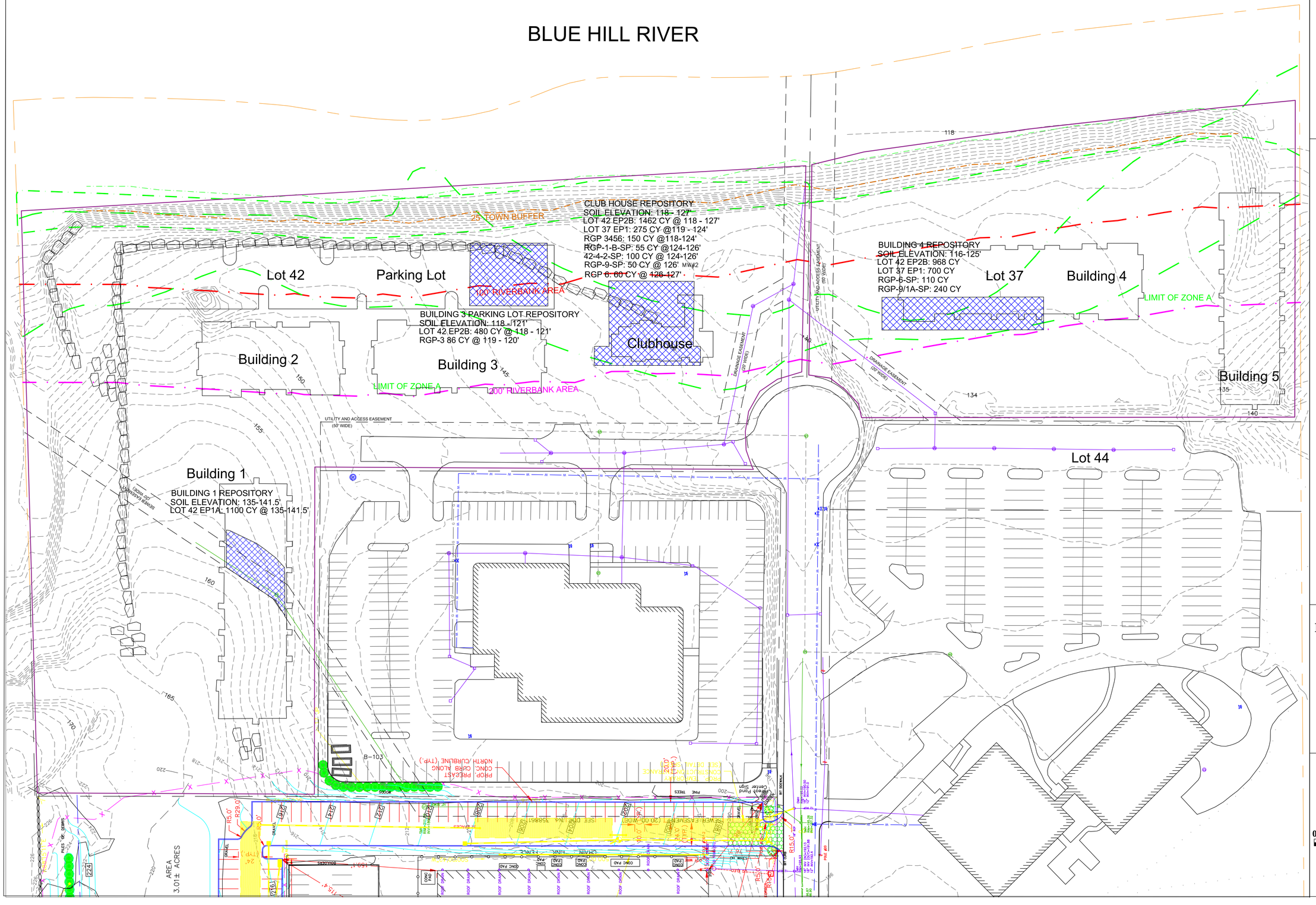
Figure 4D

SCALE
0 50 100

N

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.



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Legend

Processed Soil Placement Lead, RGP, and/or PCB Soils

Limit of Watershed and Wetlands Protection District for Areas 1 and 2 Over Time

Site Plan, showing Permanent Locations and Elevations of Soil Repositories

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

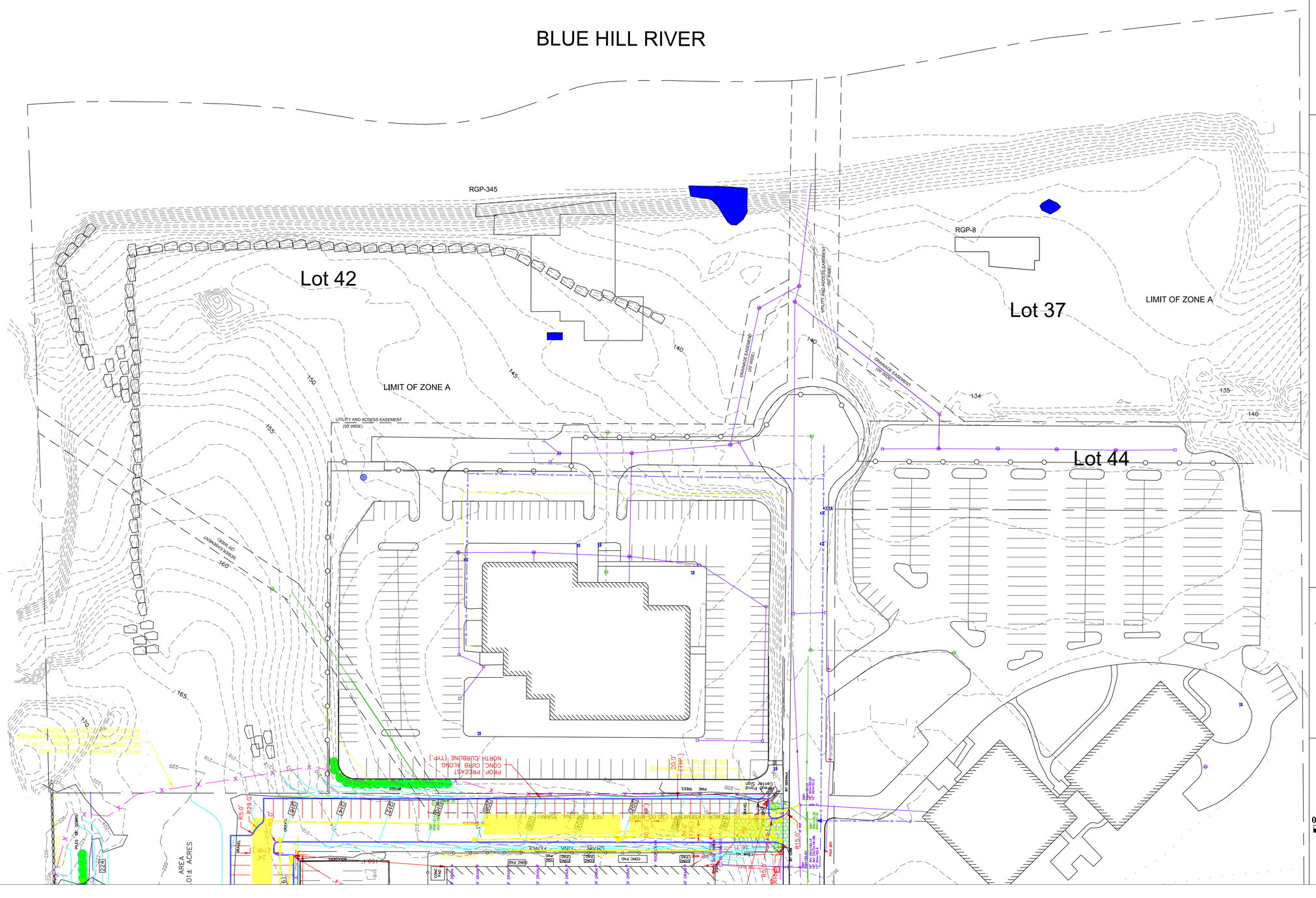
Figure 4E

SCALE
0 50 100
1 : 40'

N

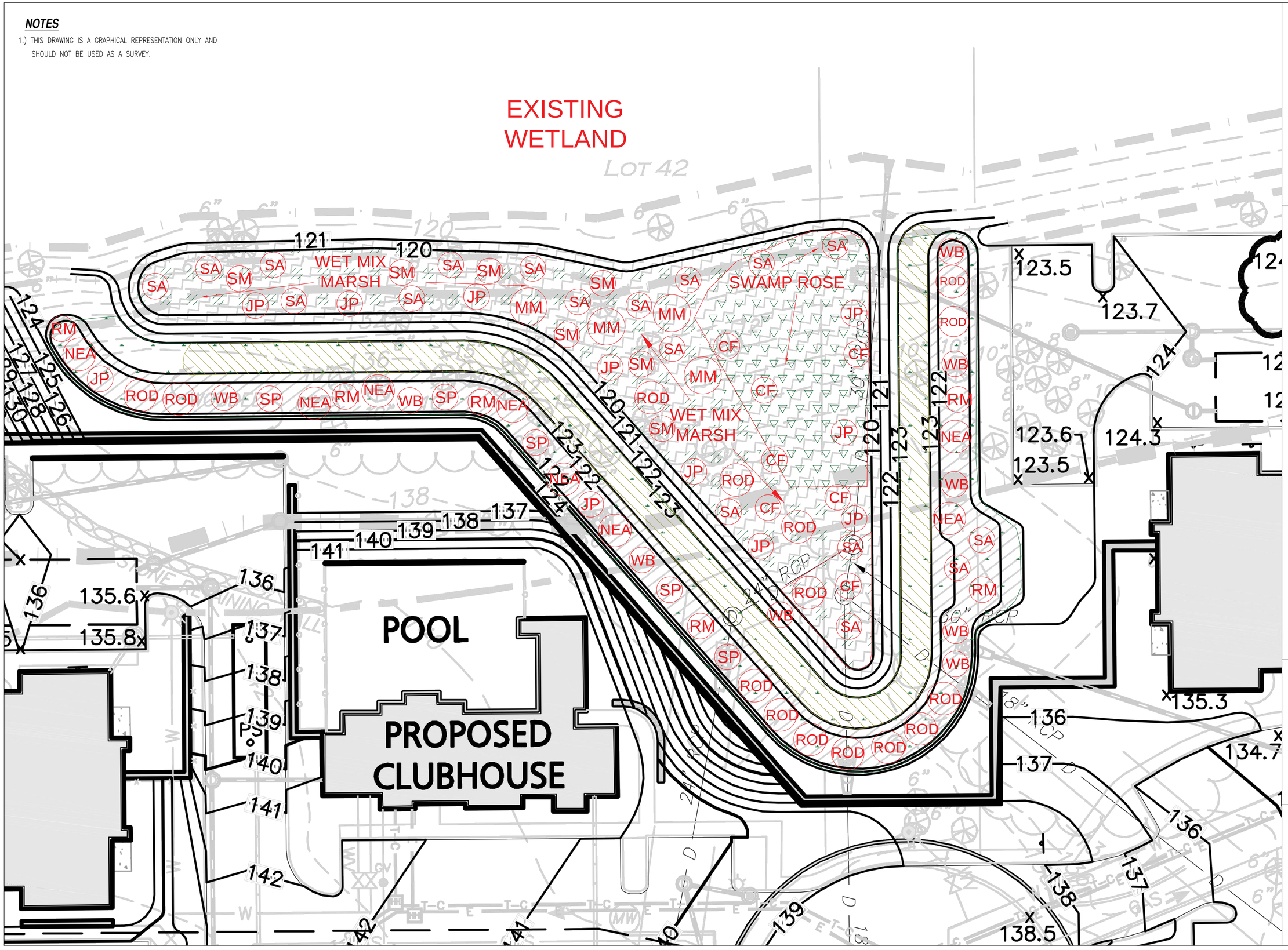
NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.


BLUE HILL RIVER
RGP-345
RGP-8
Lot 42
Lot 37
Lot 44
LIMIT OF ZONE A
LIMIT OF ZONE A
UTILITY AND ACCESS EASEMENT (50' WIDE)
DRAINAGE EASEMENT (20' WIDE)
DRAINAGE EASEMENT (20' WIDE)
UTILITY AND ACCESS EASEMENT (50' WIDE)
SEWER EASEMENT (20' WIDE)
150
155
145
140
140
140
134
135
140
165
170
220
218
212
206
200
PROP. PRECAST CONC. CURB ALONG NORTH CURBLINE (TYP.)
PROP. EMERGENCY CONSTRUCTION ACCESS (SEE DETAIL)
PROP. TEMPORARY CONC. CURB (TYP.)
PROP. TEMPORARY CONC. CURB (TYP.)
PROP. TEMPORARY CONC. CURB (TYP.

NOTES

1.) THIS DRAWING IS A GRAPHICAL REPRESENTATION ONLY AND SHOULD NOT BE USED AS A SURVEY.



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Legend

RM	Red Maple *Acer rubrum*
SA	Speckled Alder *Alnus incana*
JP	Joe-Pye Weed *Eupatorium maculatum*
WB	Winterberry *Ilex verticillata*
ROD	Red Osier Dogwood *Cornus sericea*
NEA	New England Aster *Aster novae-angliea*
CF	Cardinal Flower *Lobelia cardinalis*
▽	Swamp Rose *Rosa palustris*
SM	Swamp Milkweed *Asclepias incarnata*
SP	Sweet Pepperbush *Clethra alnifolia*
MM	Marsh Marigold *Caltha palustris*
//	Wet Marsh Mix (See Specifications)
⩘	Roadside Wet Mix (See Specifications)
\\	Erosion Control/Restoration Mix (See Specifications)

Sediment Basin Planting Plan

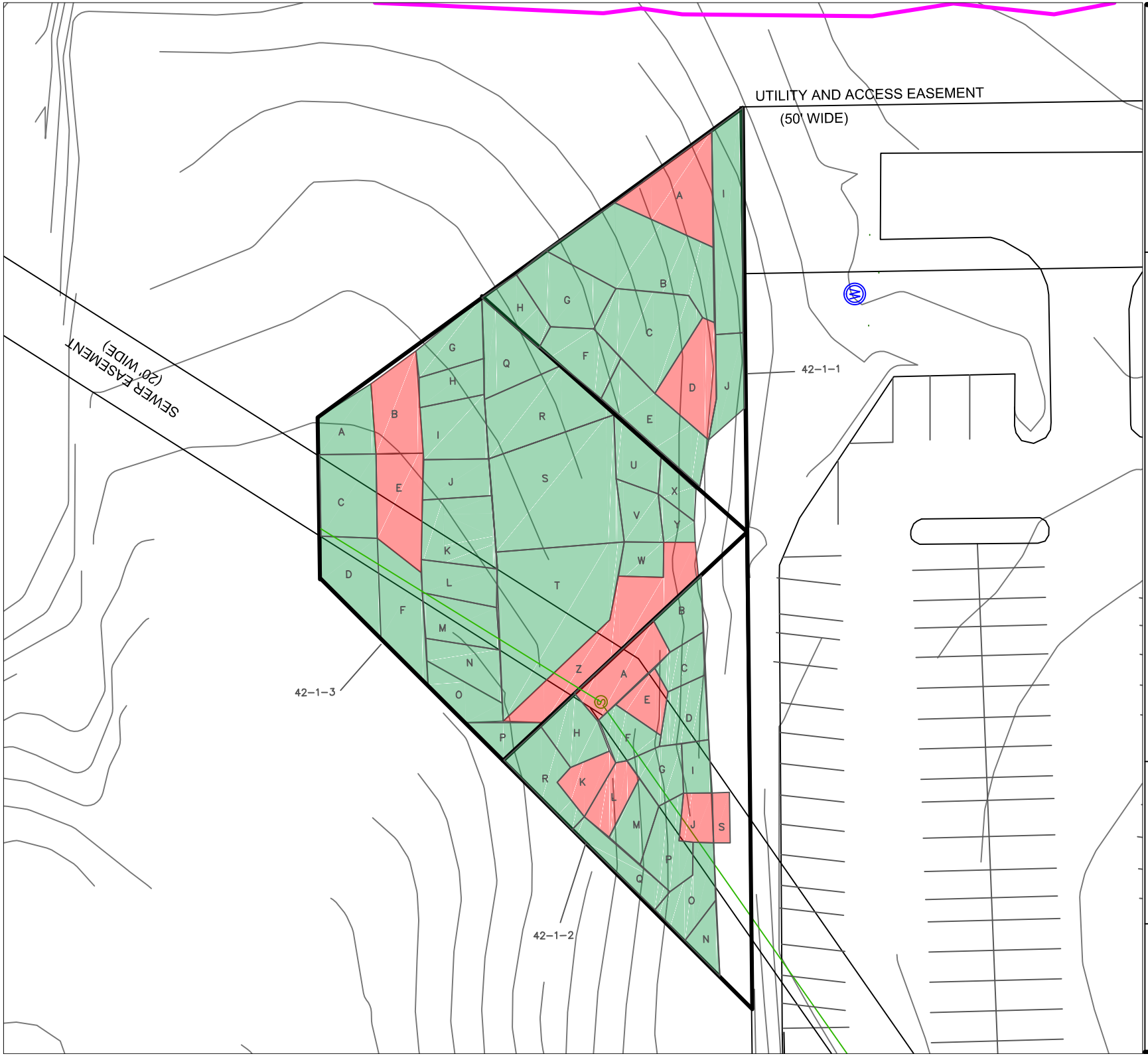
Residences at Great Pond
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-7020
GEC File Number 070214A-Plants
Revised 7/7/17

FIGURE 4G

SCALE
1 : 30'

N



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Legend

>1 mg/kg PCB

<1 mg/kg PCB

PCB Excavation 1st Lift

Lot 42
Pacella Park Drive
Randolph, Massachusetts

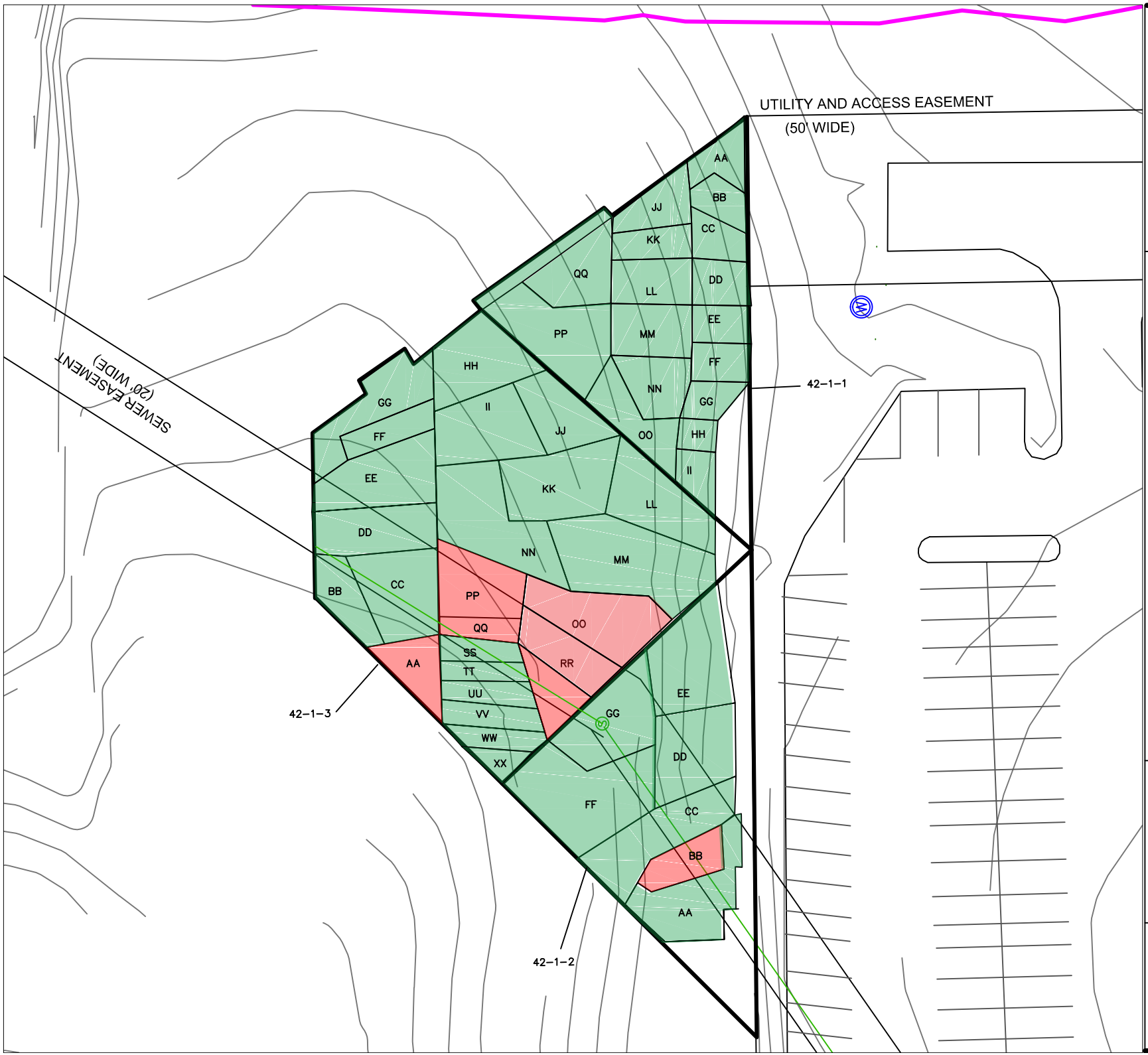
GEC Project Number 1676-519A
GEC File Number 091614A

Figure 5A

SCALE
1" : 60'

0 50 100

N



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Legend

>1 mg/kg PCB

<1 mg/kg PCB

PCB Excavation 2nd Lift

Lot 42
Pacella Park Drive
Randolph, Massachusetts

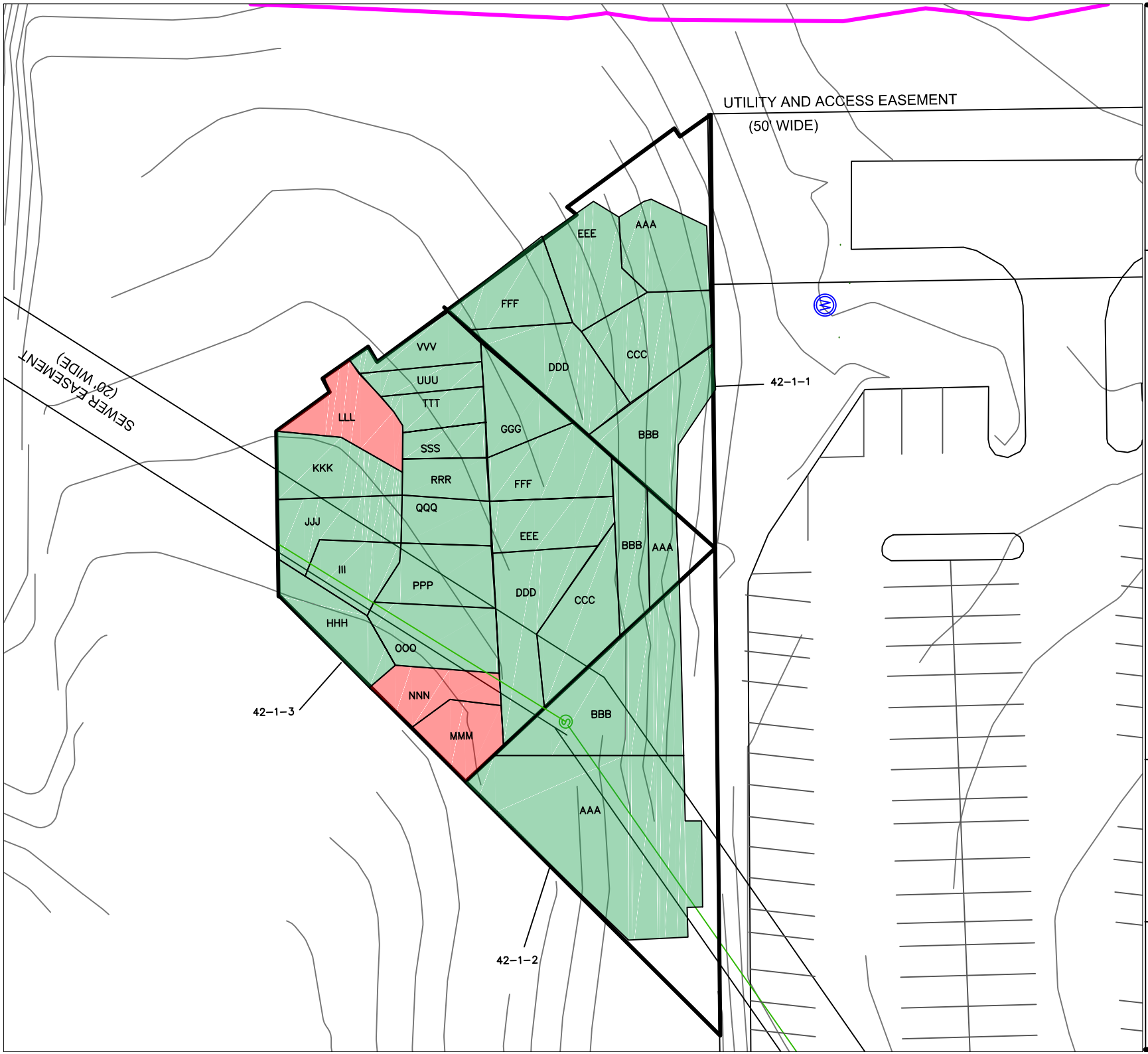
GEC Project Number 1676-519A
GEC File Number 091614A

Figure 5B

SCALE
1" : 60'

0 50 100

N



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Legend

>1 mg/kg PCB

<1 mg/kg PCB

PCB Excavation 3rd Lift

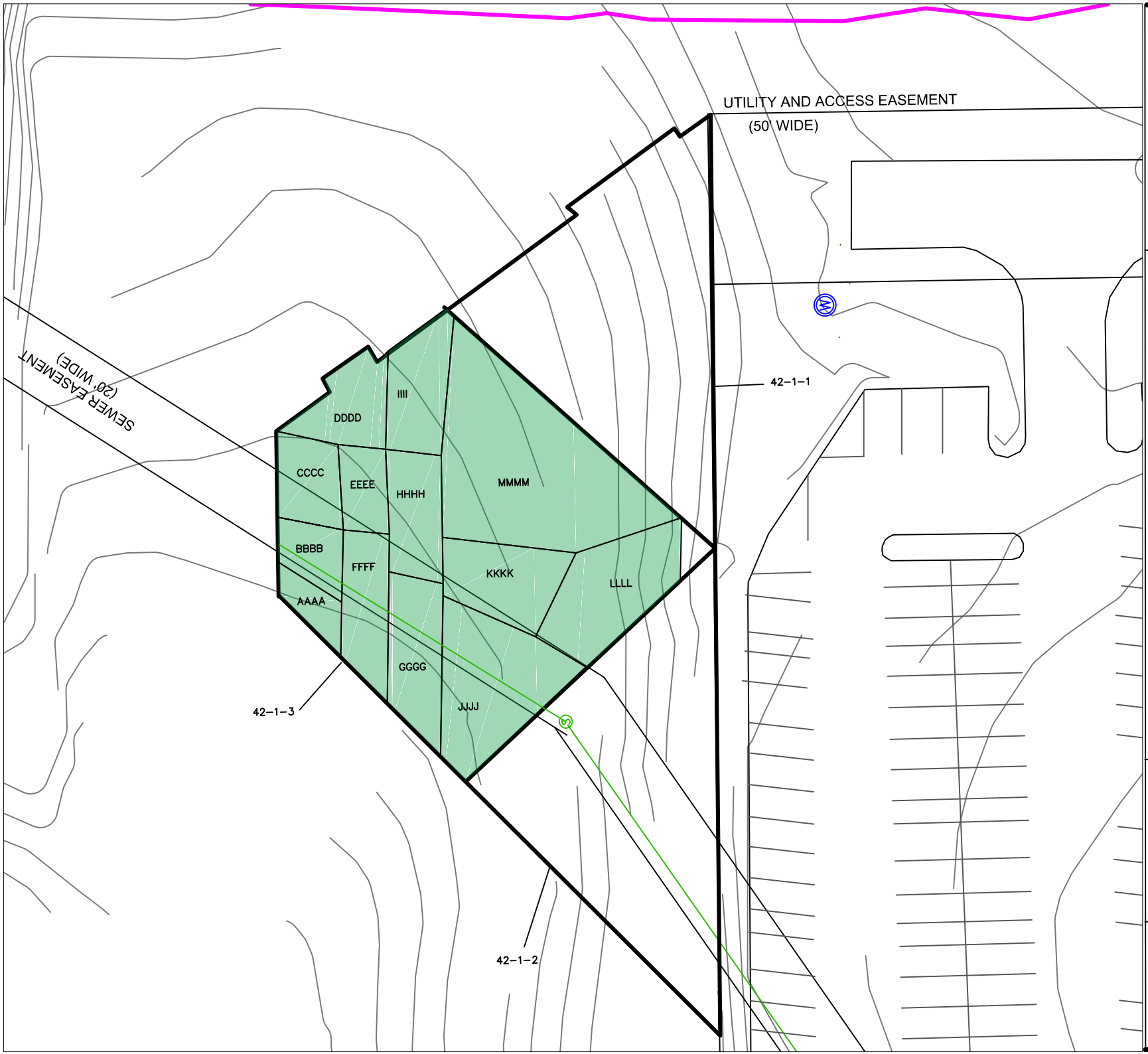
Lot 42
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-519A
GEC File Number 091614A

Figure 5C

SCALE
1" : 60'
0 50 100

N



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Legend

>1 mg/kg PCB

<1 mg/kg PCB

PCB Excavation 4th Lift

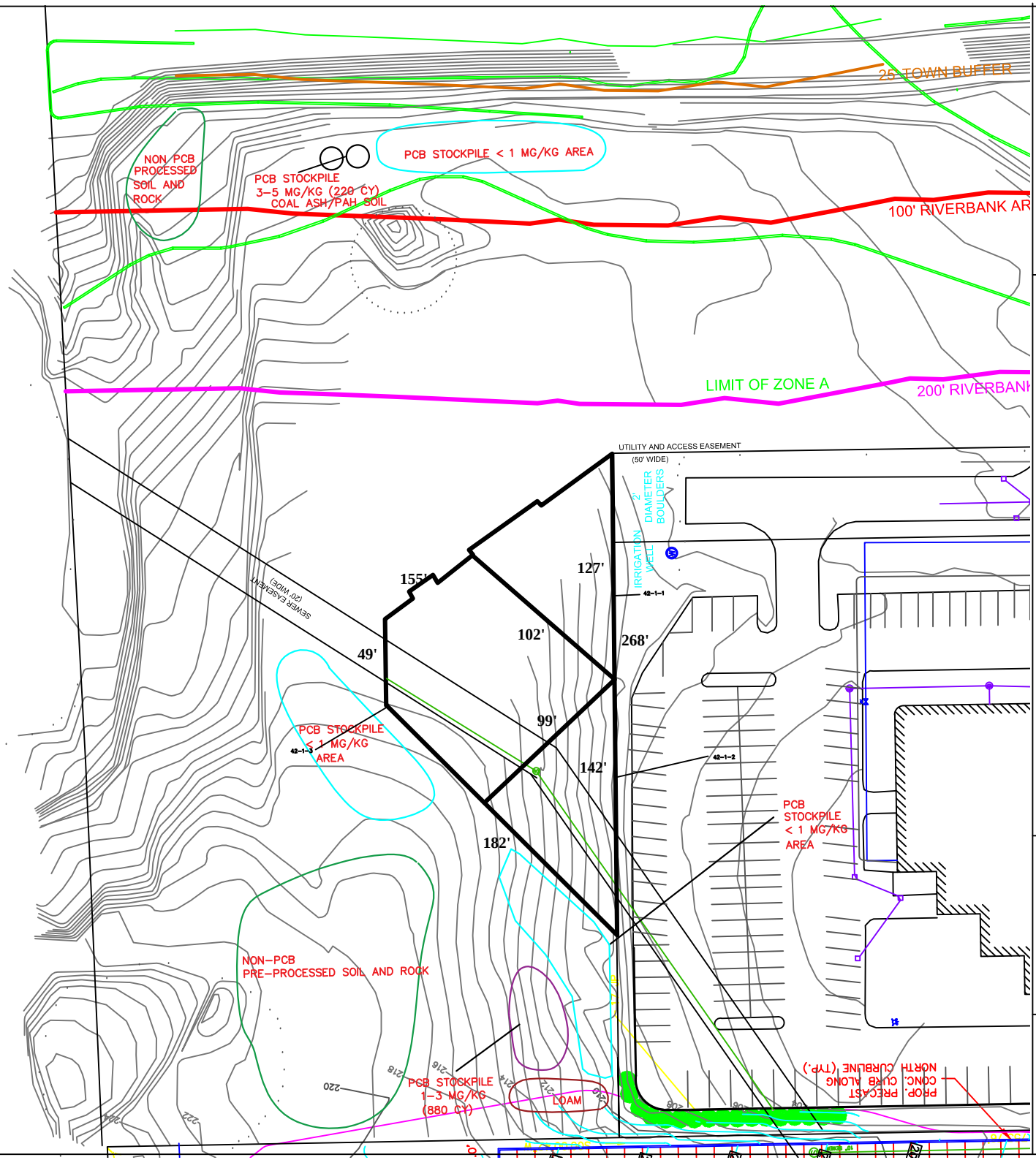
Lot 42
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-519A
GEC File Number 091614A

Figure 5D

SCALE
1" : 60'
0 50 100

N



GEC

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Legend

PCB Temporary Storage Locations

Lot 42
Pacella Park Drive
Randolph, Massachusetts

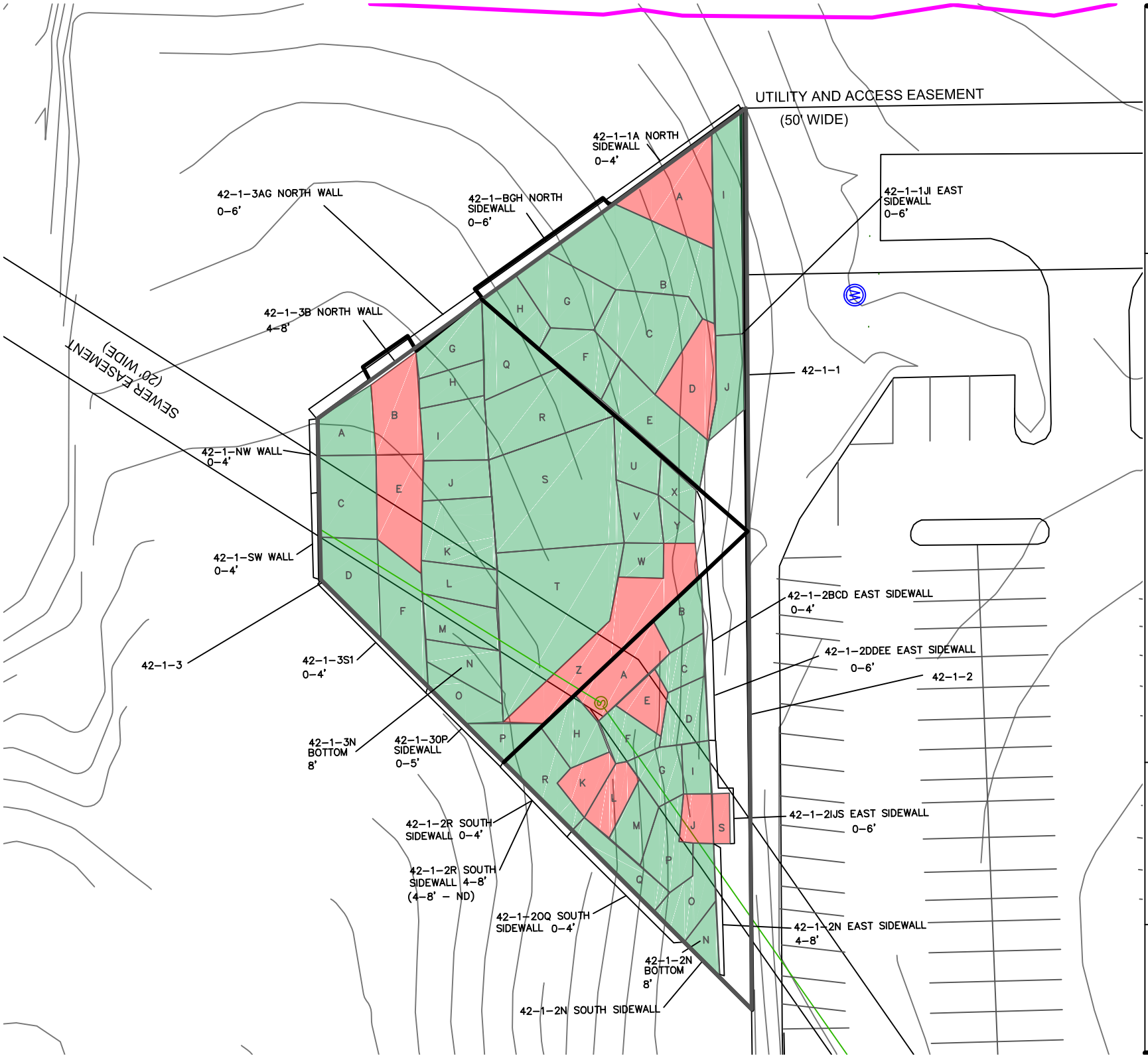
GEC Project Number 1676-5190

Figure 5E

SCALE

0 50 100

N



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Legend

>1 mg/kg PCB

<1 mg/kg PCB

PCB Excavation 1st Lift: Confirmatory Sampling Locations

Lot 42
Pacella Park Drive
Randolph, Massachusetts

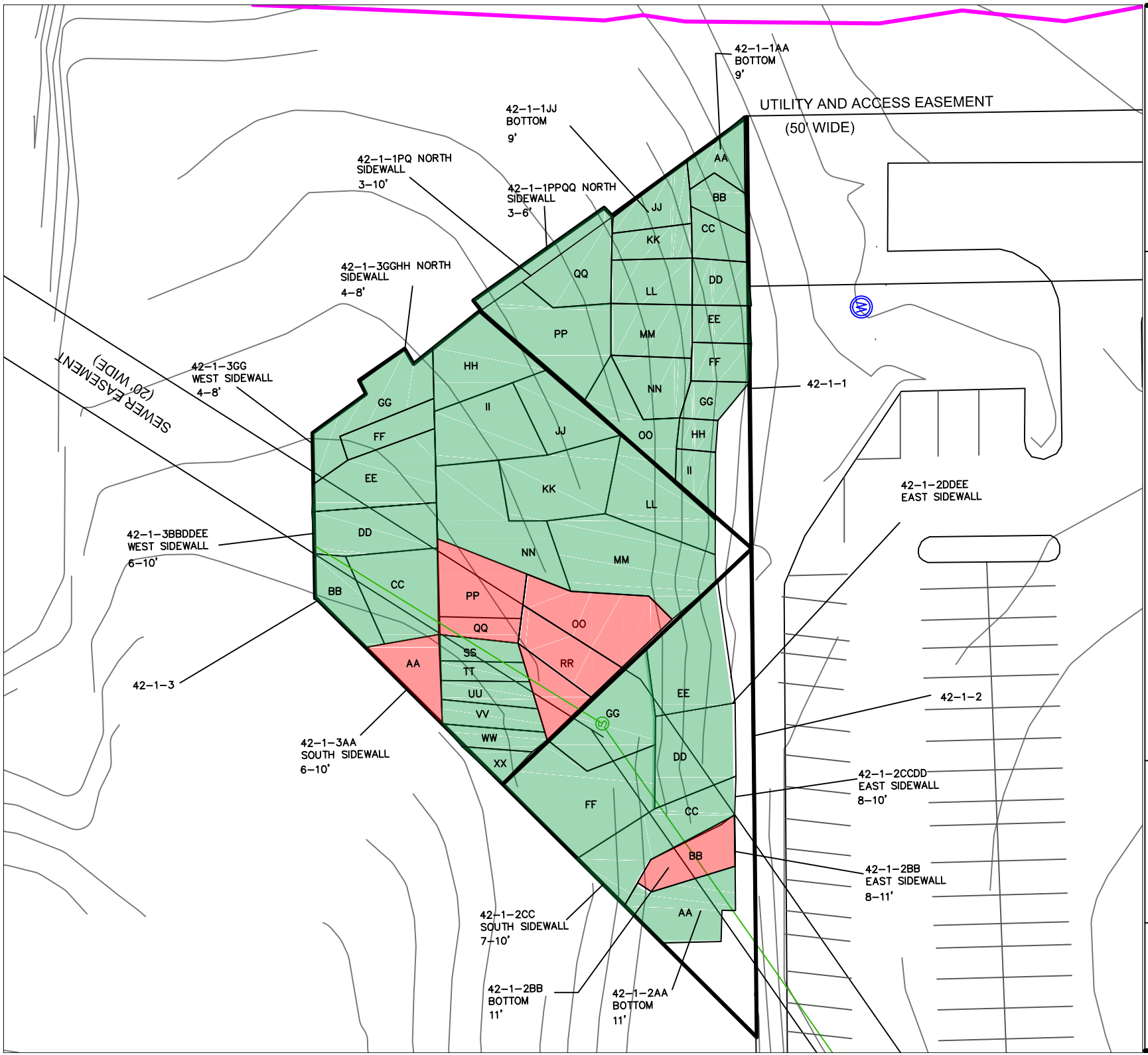
GEC Project Number 1676-519A
GEC File Number 091614A

Figure 5F

SCALE
1" : 60'

0 50 100

N



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Legend

>1 mg/kg PCB

<1 mg/kg PCB

PCB Excavation 2nd Lift
Confirmatory Sample Locations

Lot 42
Pacella Park Drive
Randolph, Massachusetts

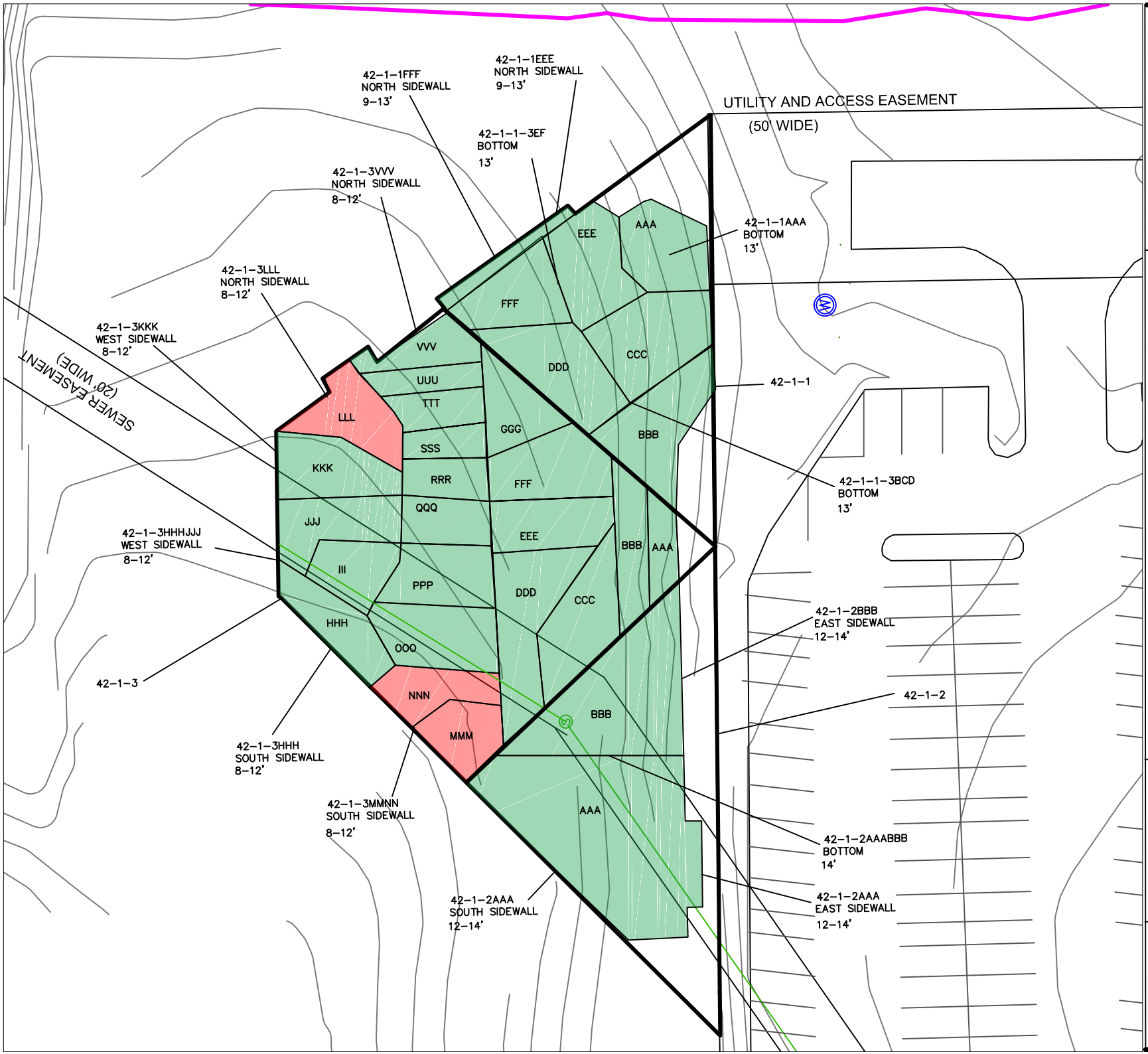
GEC Project Number 1676-519A
GEC File Number 091614A

Figure 5G

SCALE
1" : 60'

0 50 100

N



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Legend

>1 mg/kg PCB

<1 mg/kg PCB

PCB Excavation 3rd Lift: Confirmatory Sample Locations

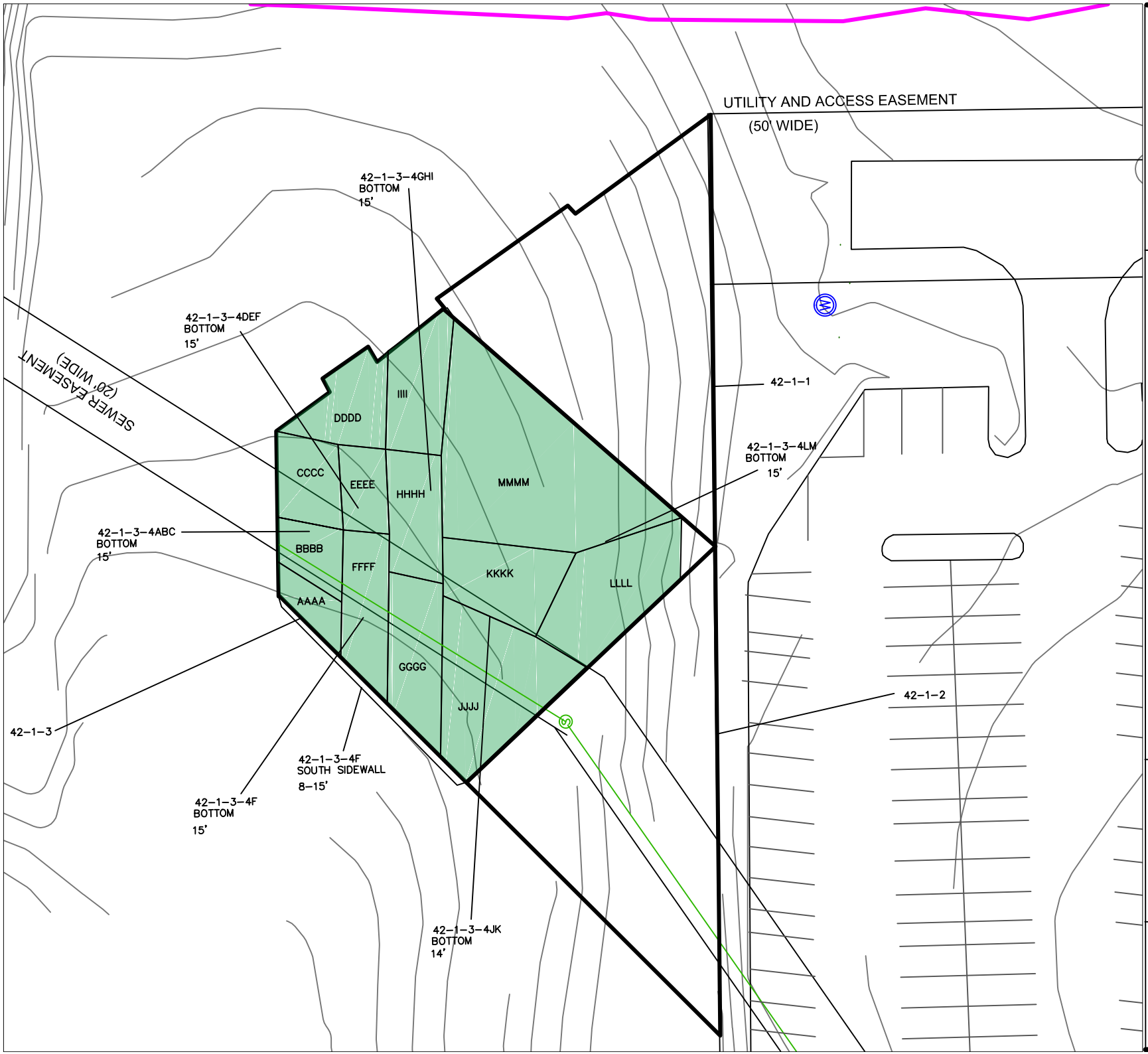
Lot 42
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-519A
GEC File Number 091614A

Figure 5H

SCALE
1" : 60'
0 50 100

N



GEC

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Legend

>1 mg/kg PCB

<1 mg/kg PCB

PCB Excavation 4th Lift: Confirmatory Sample Locations

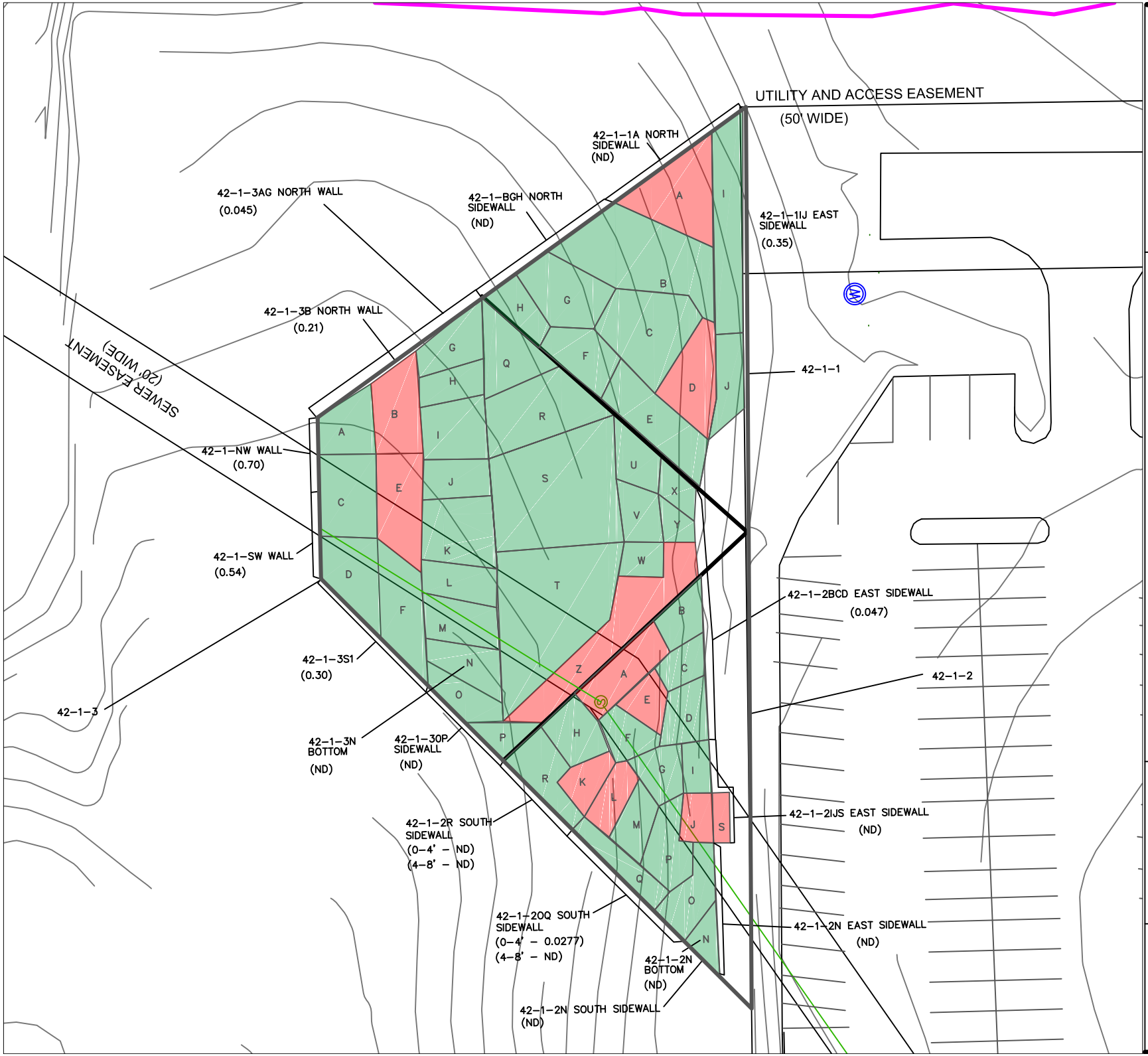
Lot 42
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-519A
GEC File Number 091614A

Figure 5I

SCALE
1" : 60'
0 50 100

N



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Legend

	>1 mg/kg PCB
	<1 mg/kg PCB
(0.050)	PCB Concetrations mg/kg
(ND)	Non Detected

PCB Excavation 1st Lift: Final Confirmatory PCB Levels

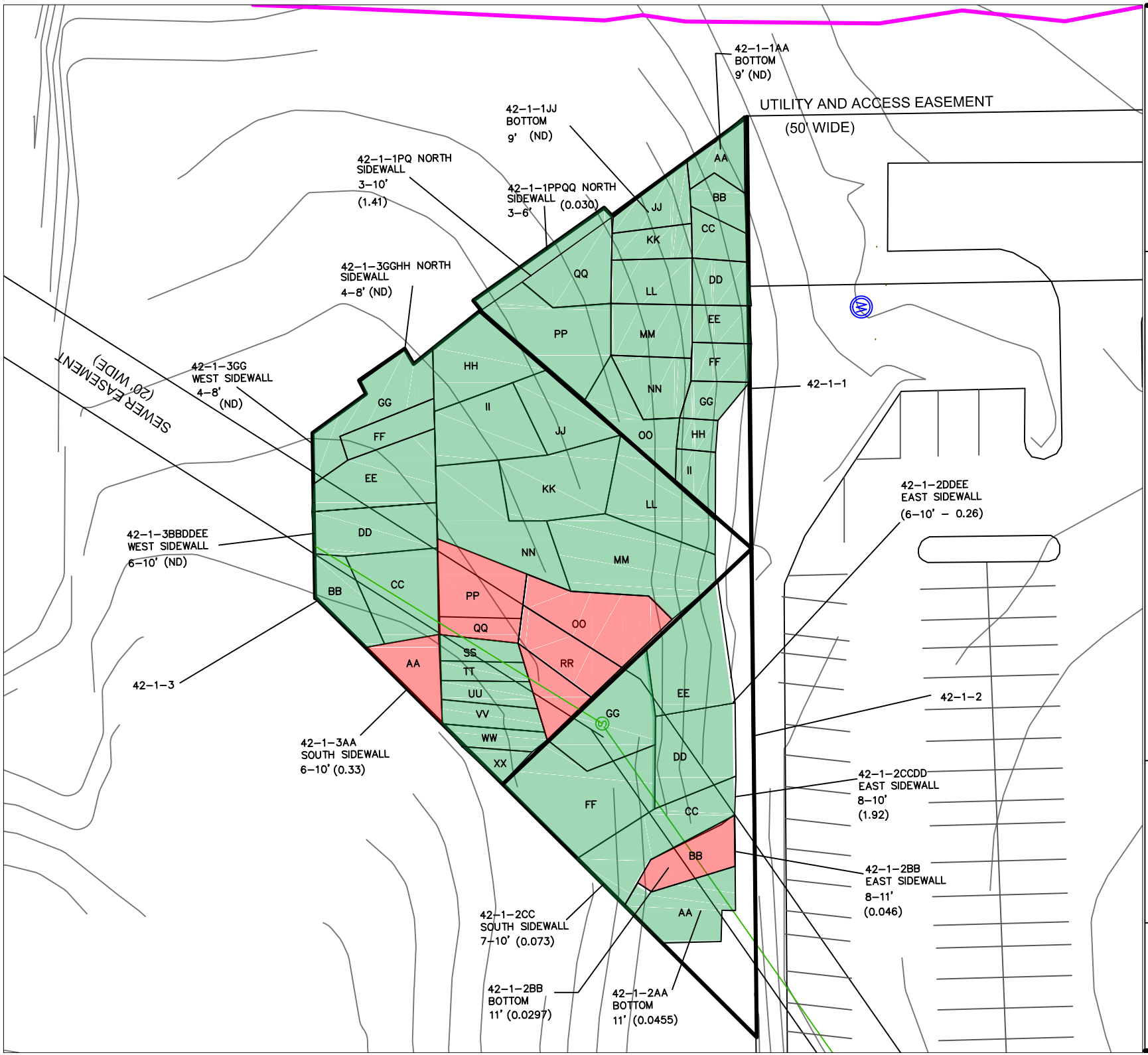
Lot 42
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-519A
GEC File Number 091614A

Figure 5J

SCALE
1" : 60'
0 50 100

N



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Legend

>1 mg/kg PCB

<1 mg/kg PCB

(0.050) PCB Concetrations mg/kg

(ND) Non Detected

PCB Excavation 2nd Lift: Final Confirmatory PCB Levels

Lot 42
Pacella Park Drive
Randolph, Massachusetts

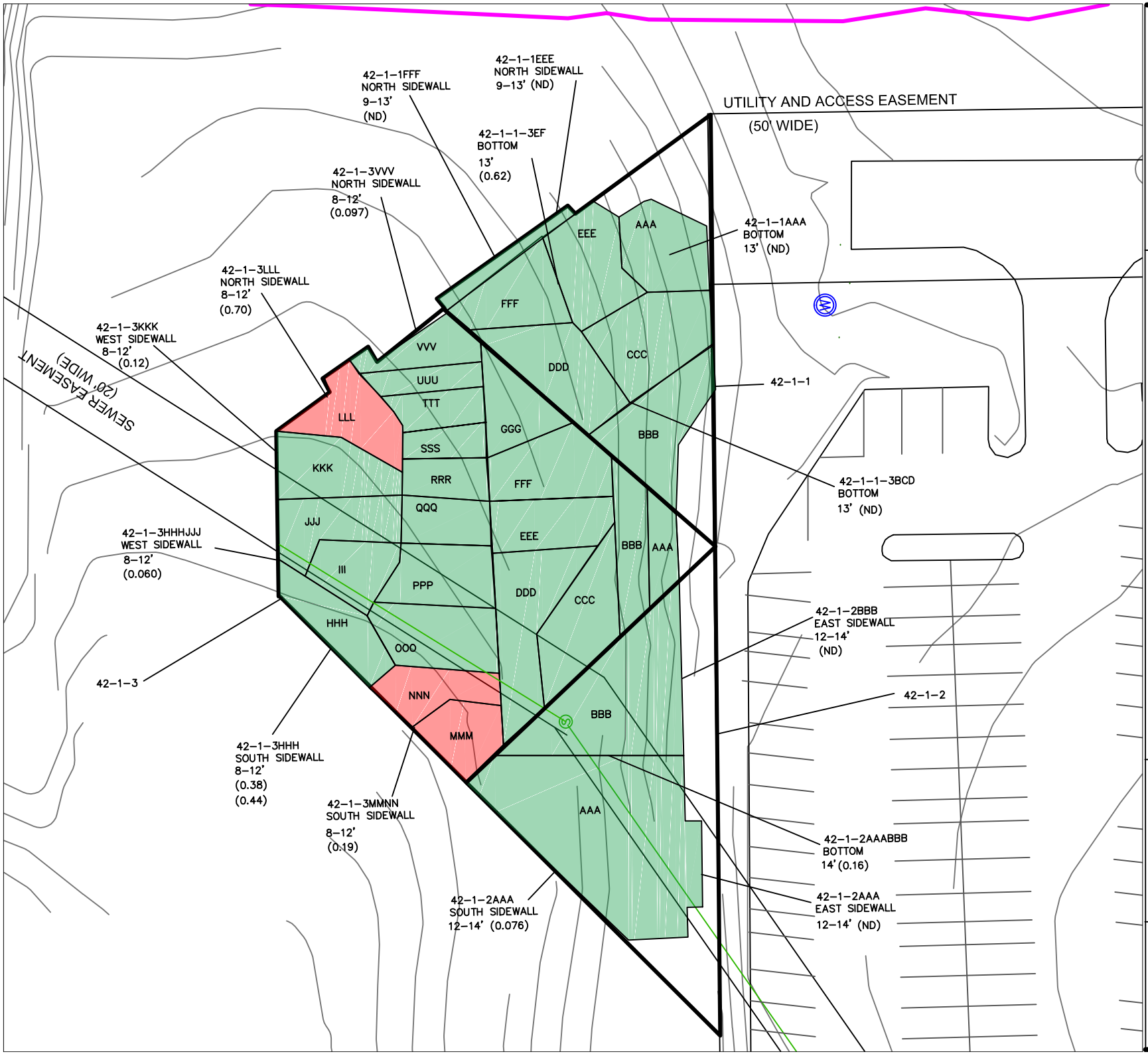
GEC Project Number 1676-519A
GEC File Number 091614A

Figure 5K

SCALE
1" : 60'

0 50 100

N



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Legend

>1 mg/kg PCB

<1 mg/kg PCB

PCB Excavation 3rd Lift:
Confirmatory Sample Locations

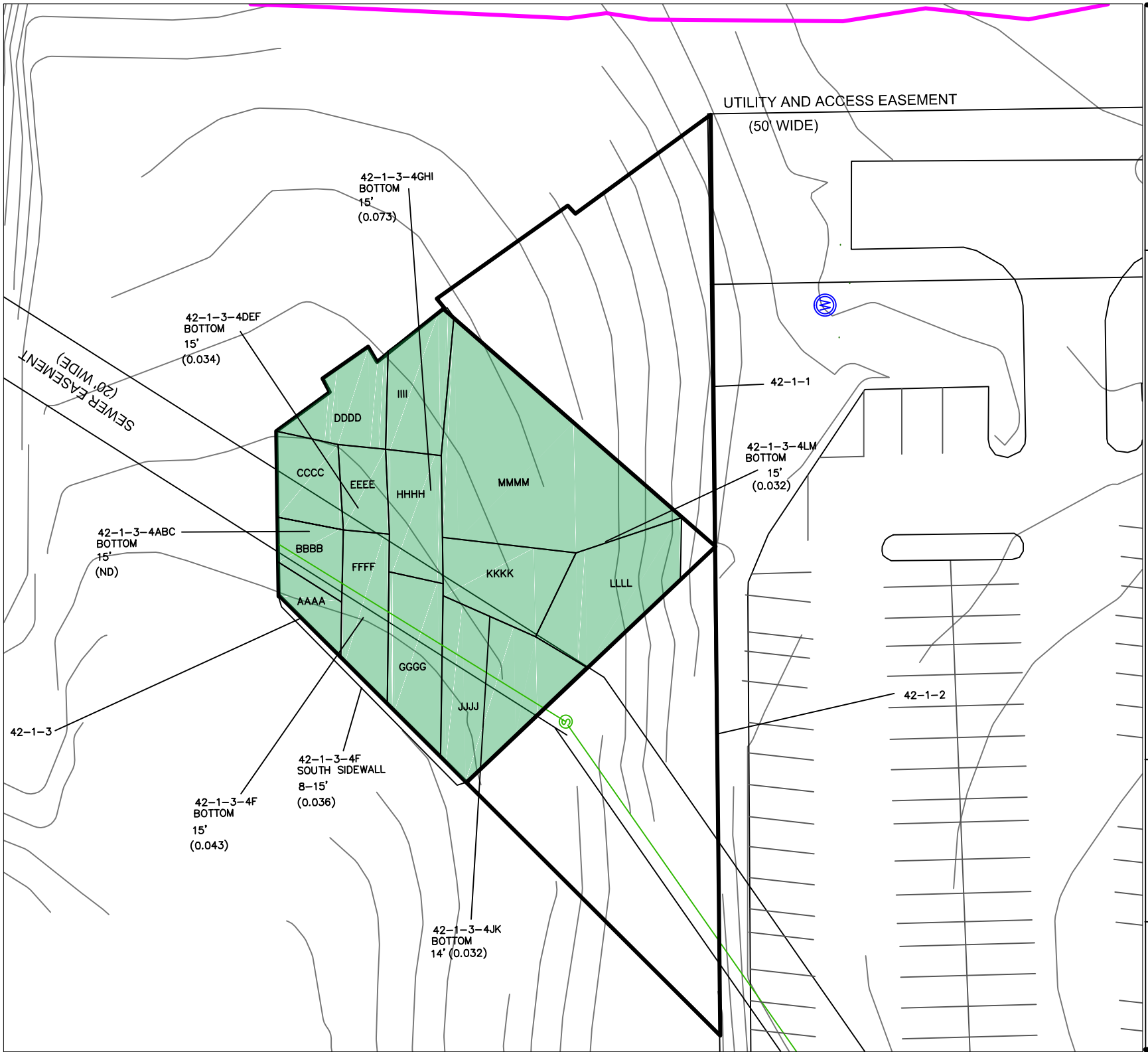
Lot 42
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-519A
GEC File Number 091614A

Figure 5L

SCALE
1" : 60'
0 50 100

N



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Legend

>1 mg/kg PCB

<1 mg/kg PCB

(0.050) PCB Concetrations mg/kg

(ND) Non Detected

PCB Excavation 4th Lift:
Final Confirmatory PCB Levels

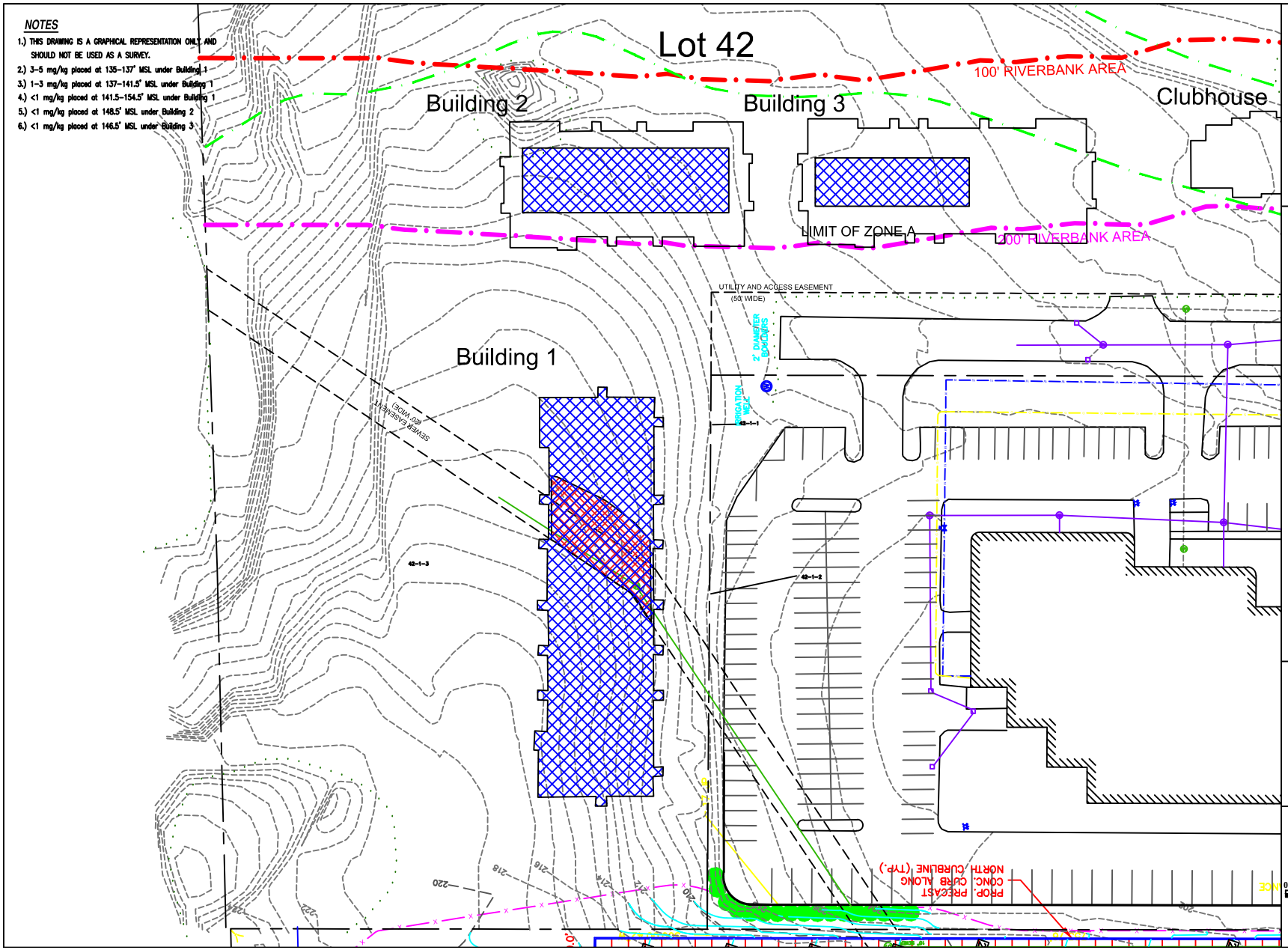
Lot 42
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-519A
GEC File Number 091614A

Figure 5M

SCALE
1" : 60'
0 50 100

N



GEC

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Legend

- >1 mg/kg PCB Soil Repository
- <1 mg/kg PCB Soil Placement

1-3 mg/kg PCB Soil Repository and <1 mg/kg PCB Soil Placement

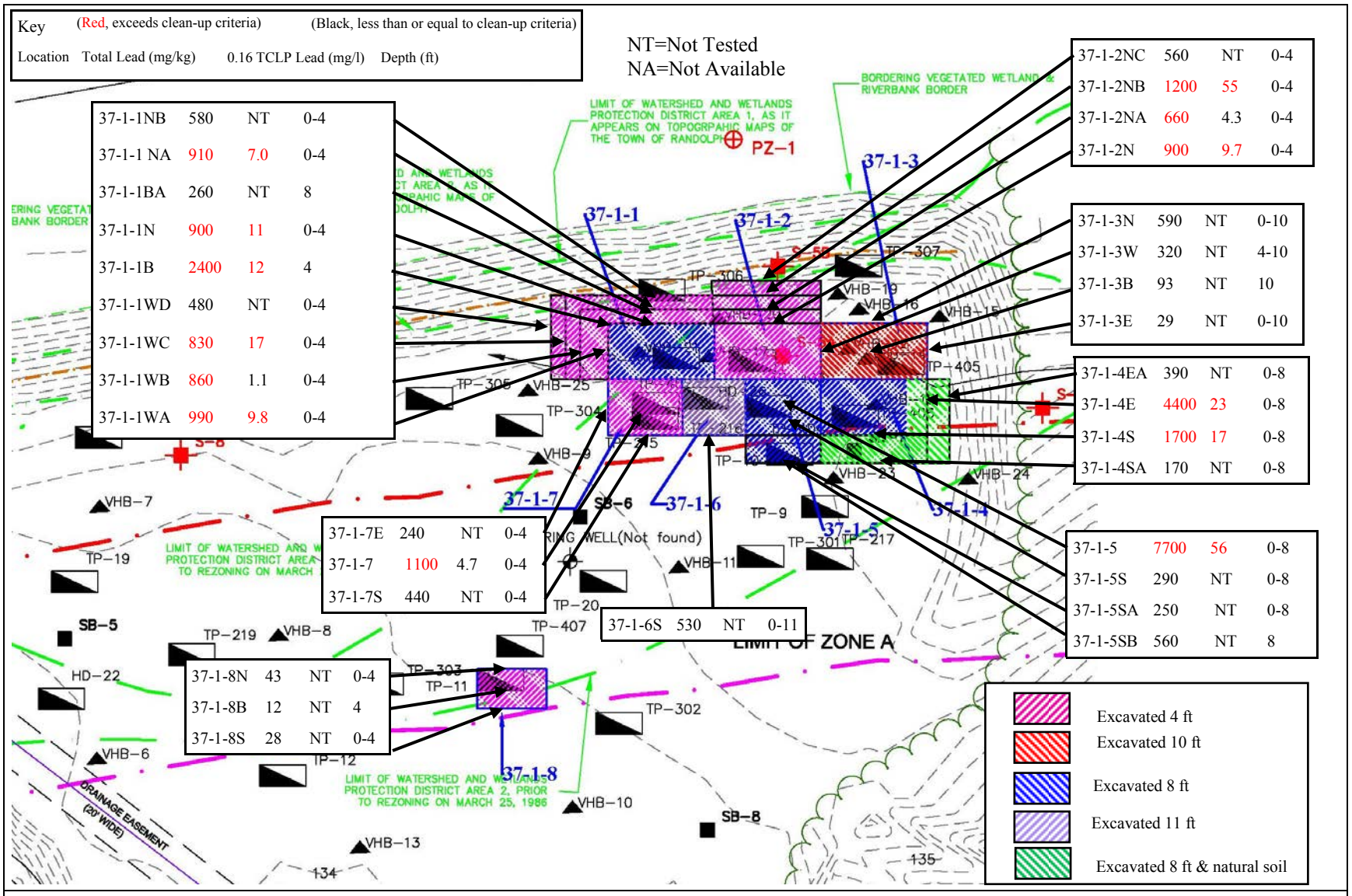
Lot 42
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190
GEC File Number 091614A

Figure 5N

SCALE
0 50 100
1 : 40'

N



See Figure 3 for Legend

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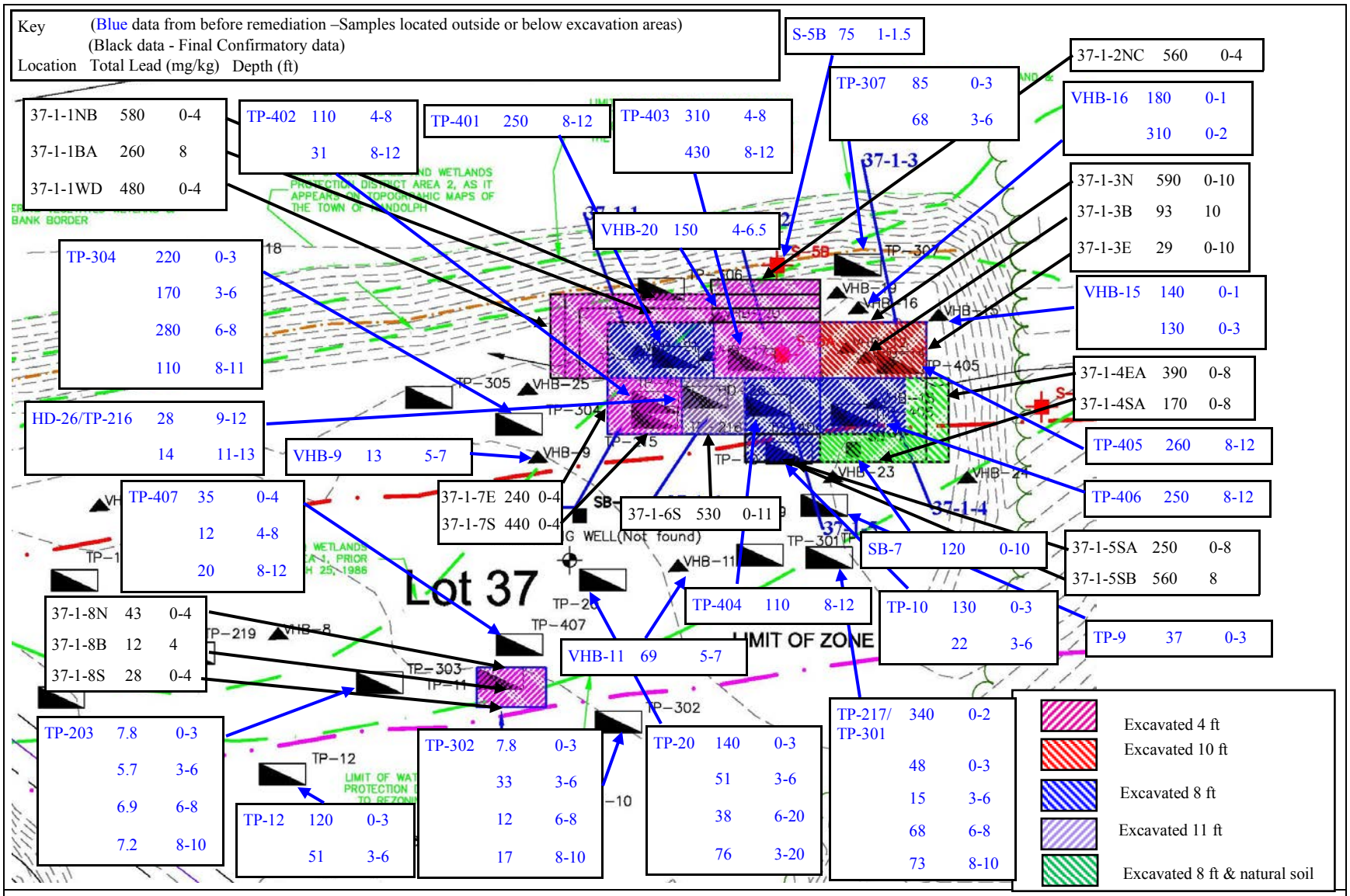
Excavation Areas for Lot 37 EP1; showing Sidewall and Bottom Total Lead and TCLP Data
GEC Project #1676-5190

Figure 6A

SCALE
0 50 100
1 : 40'

N



See Figure 3 for Legend

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Extent of Excavation Areas for Lot 37 EP1; showing Final Sidewall, Bottom, and Test Pit Total Lead and TCLP Lead Data

GEC Project #1676-5190

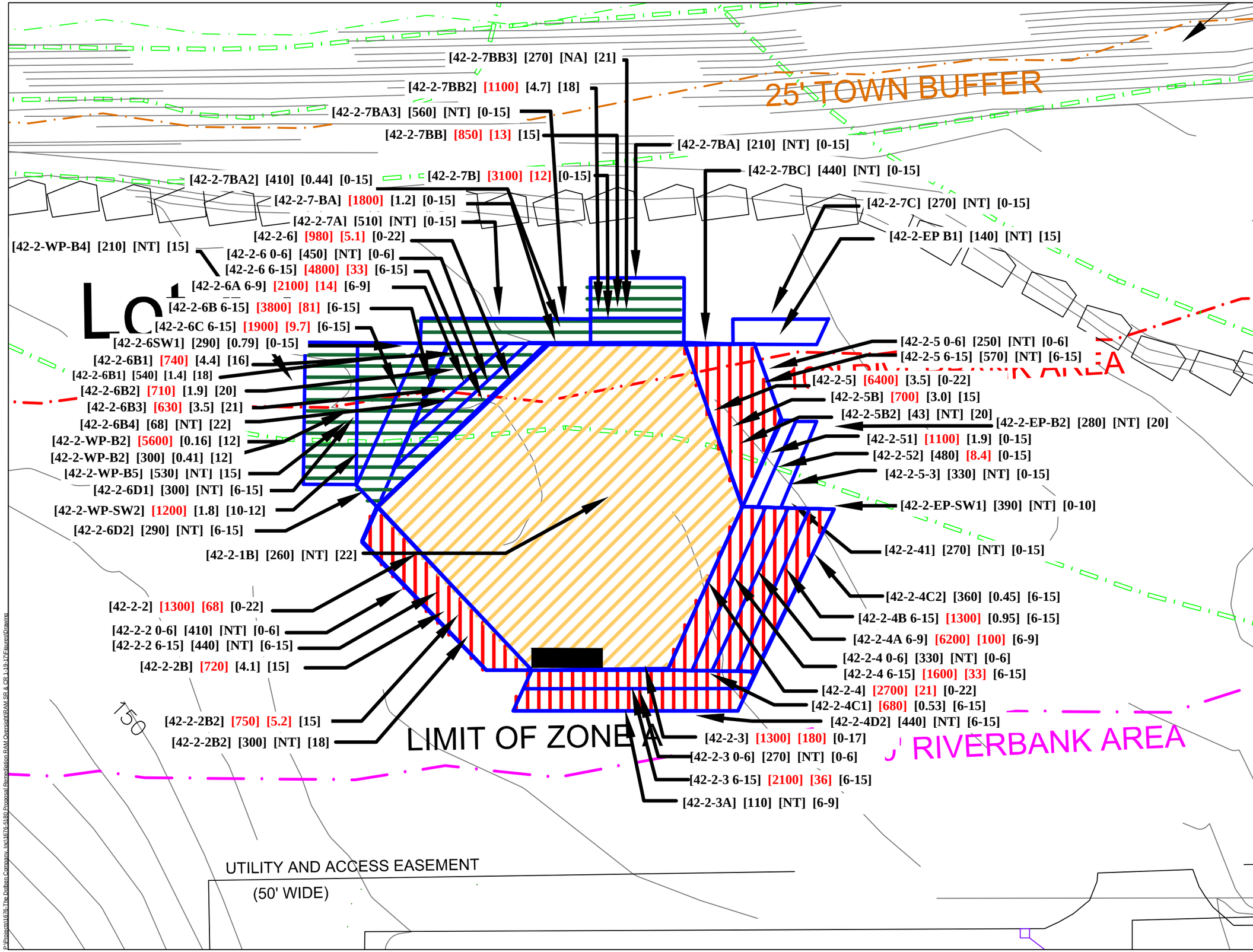
Figure 6B

SCALE

0 50 100

1 : 40'

N



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Legend

	Excavated to Natural Soil
	Excavated to 22' and Natural Soil (within 1')
	Excavated to 20' - 22' and Natural Soil
	Excavated to Soil with < 600 mg/kg total lead
	Location of Coal Tar
[42-2-2B]	Sample ID
[550]	Total Lead (mg/kg) < 600 mg/L
[750]	Total Lead (mg/Kg) > 600 mg/L
[3.2]	TCLP Lead (mg/L) < 5 mg/L
[6.1]	TCLP Lead (mg/L) > 5 mg/L
[NT]	Not Tested for TCLP Lead - Total Lead < 600 mg/Kg
[0-10]	Sampling Depth (ft) - Below Surface Grade (BSG)

Excavation Areas for Lot 42 EP2B, showing Total Lead and TCLP Lead Data

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

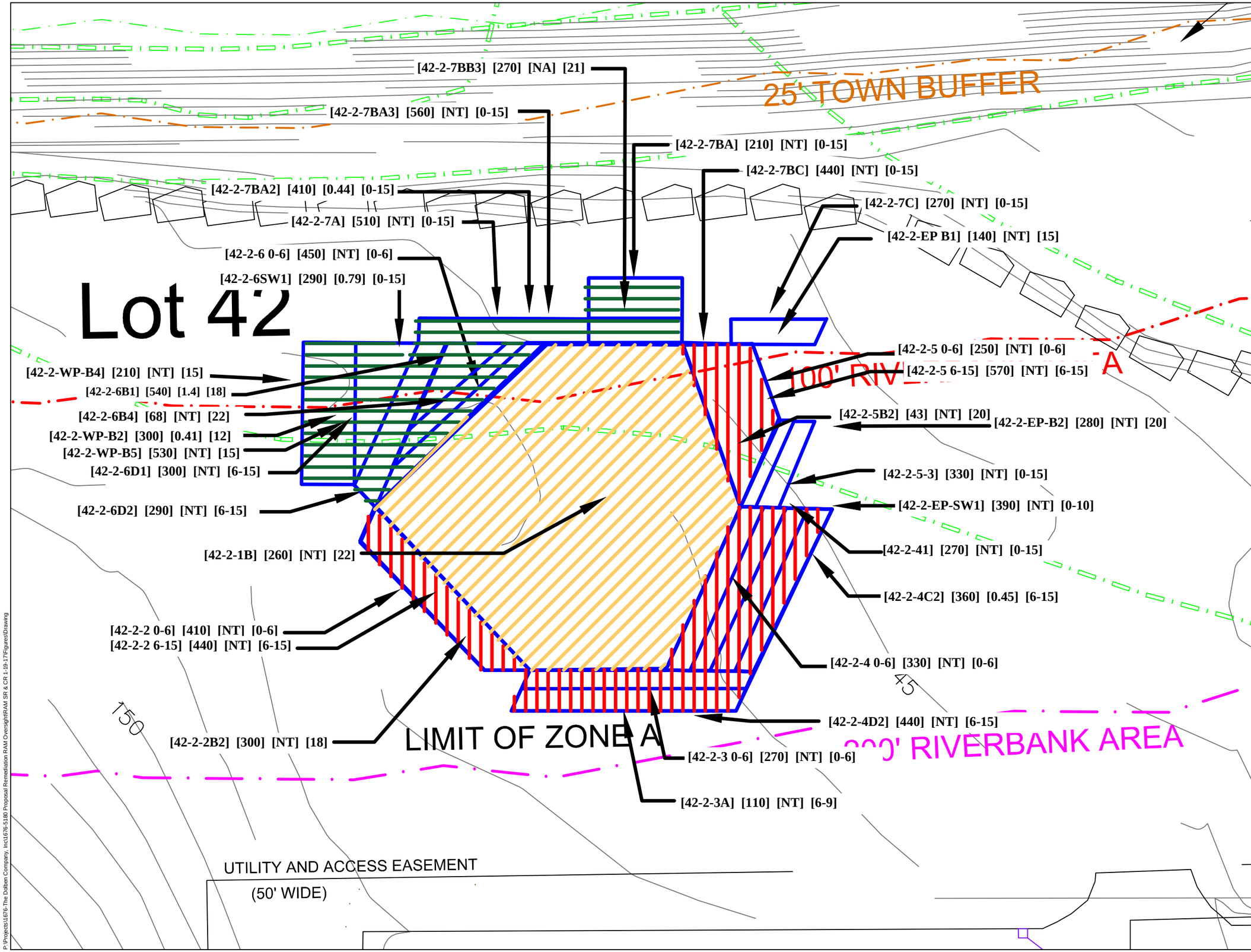
GEC Project Number 1676-5190

Figure 7A

SCALE
0 12.5' 25'

N

P:\Projects\1676-The Dolben Company, Inc\1676-5180 Proposal Remediation RAM Oversight\RAM SR & CR 1-19-17\Figures\Drawing



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Legend

	Excavated to Natural Soil
	Excavated to 22' and Natural Soil (within 1')
	Excavated to 20' - 22' and Natural Soil
	Excavated to Soil with < 600 mg/kg total lead
[42-2-2B]	Sample ID
[550]	Total Lead (mg/kg) < 600 mg/L
[3.2]	TCLP Lead (mg/L) < 5 mg/L
[NT]	Not Tested for TCLP Lead - Total Lead < 600 mg/Kg
[0-10]	Sampling Depth (ft) - Below Surface Grade (BSG)

Extent of Excavation Areas for Lot 42 EP2B; showing Confirmatory Total Lead and TCLP Lead Data

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

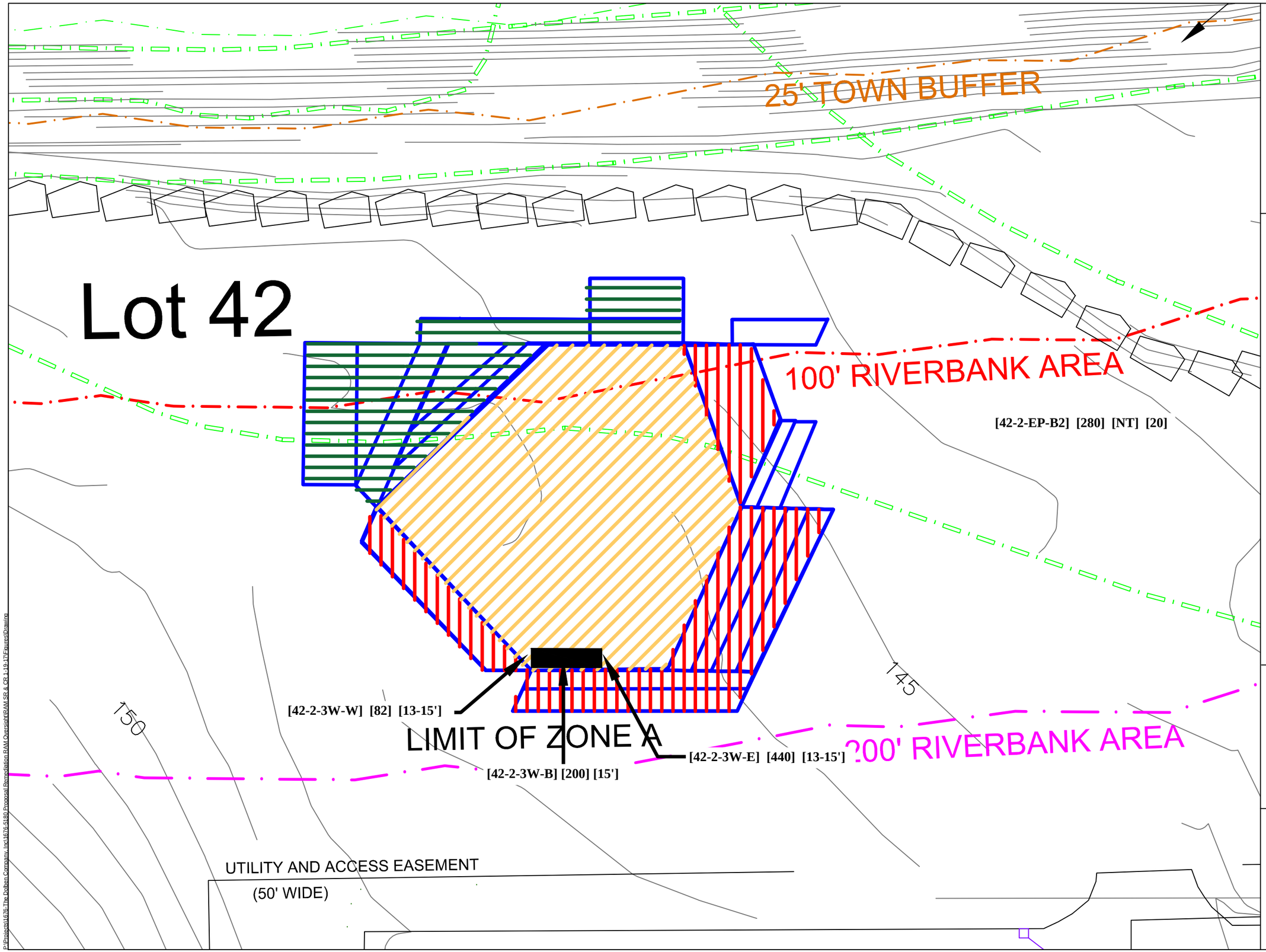
GEC Project Number 1676-5190

Figure 7B

SCALE
0 12.5' 25'

N

P:\Projects\1676-The Dolben Company, Inc\1676-5180 Proposal Remediation RAM Oversight\RAM SR & CR 1-19-17\Figures\Drawing



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Legend

- Excavated to Natural Soil
- Excavated to 22' and Natural Soil (within 1')
- Excavated to 20' - 22' and Natural Soil
- Excavated to Soil with < 600 mg/kg total lead
- Location of Coal Tar
- **[42-2-3W-W]** Sample ID
- **[82]** c11-c22 Aromatic Hydrocarbons (mg/kg)
- **[13-15']** Sampling Depth (ft) - Below Surface Grade (BSG)

Excavation Areas for Lot 42 EP2B, showing Coal Tar Data

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

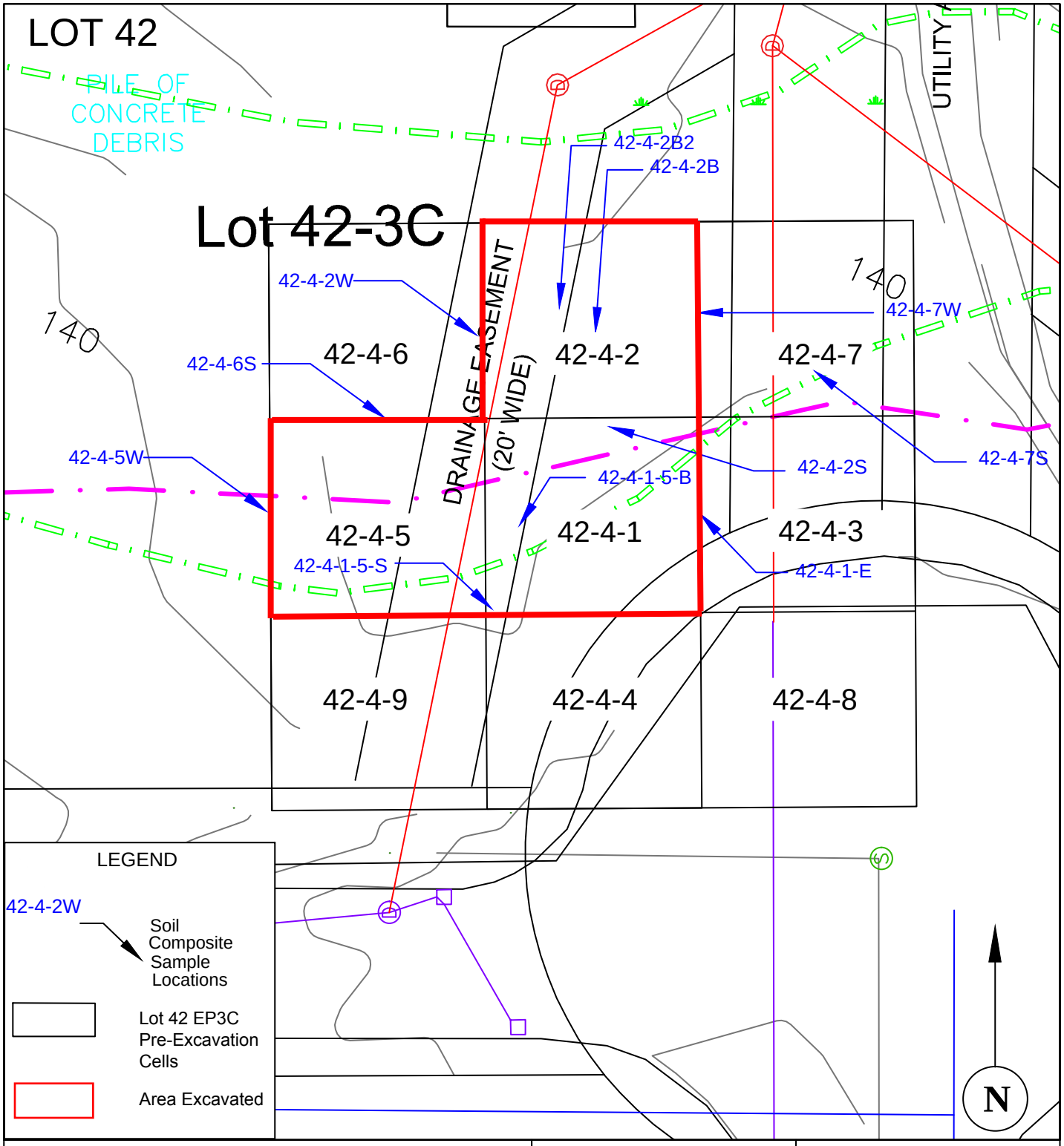
GEC Project Number 1676-5190

Figure 7C

SCALE
0 12.5' 25'

N

P:\Projects\1676-The Dolben Company, Inc\1676-5180 Proposal Remediation RAM Oversight\RAM SR & CR 1-19-17\Figures\Drawing



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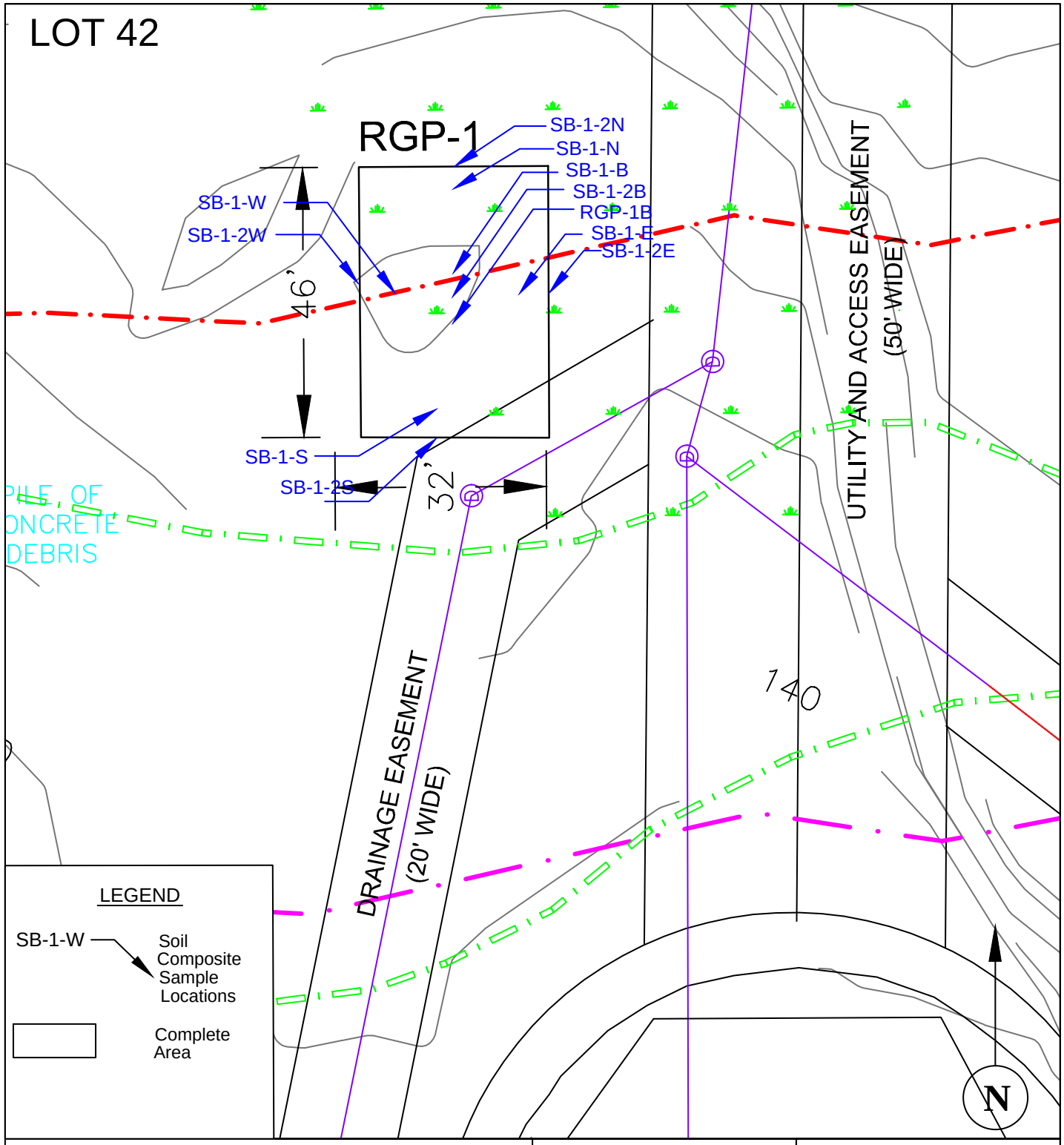
Plan Showing Excavation Area for Lot 42 EP3C

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 8

SCALE
0 20 40
IN FEET



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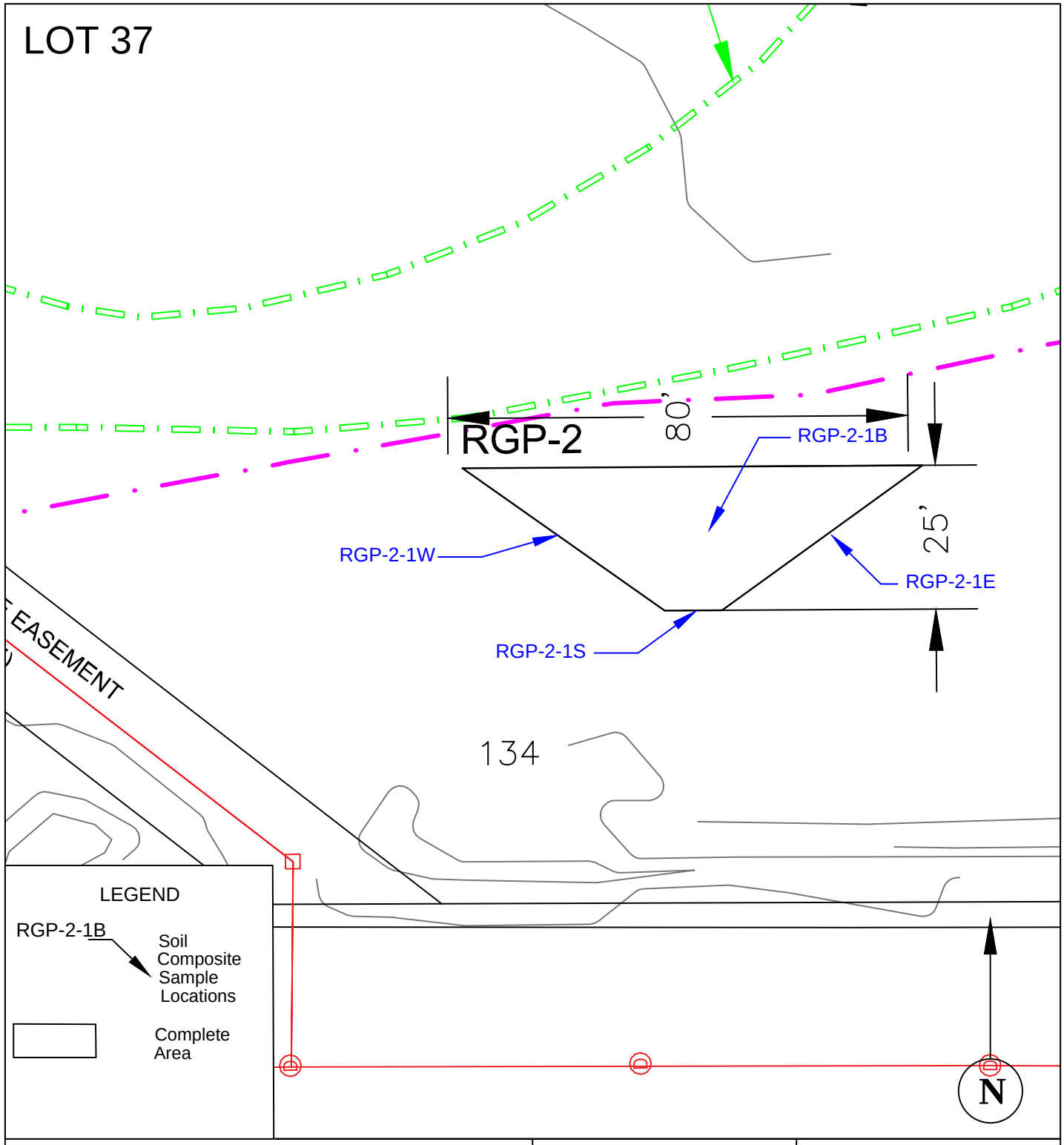
Plan showing Excavation Area for RGP-1

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 9

SCALE
0 20 40
IN FEET



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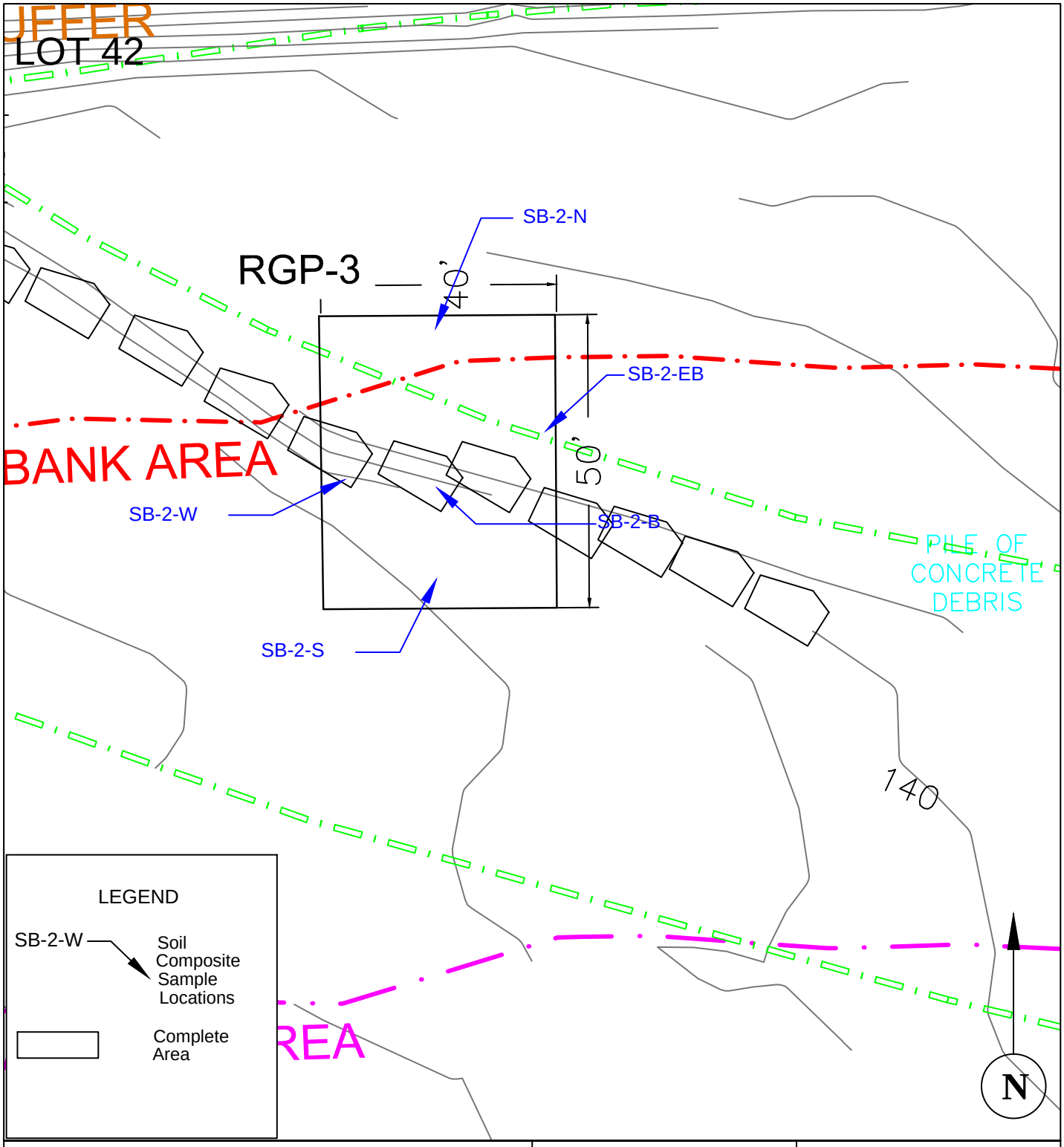
Plan showing Excavation Area for RGP-2

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 10

SCALE
0 20 40
IN FEET



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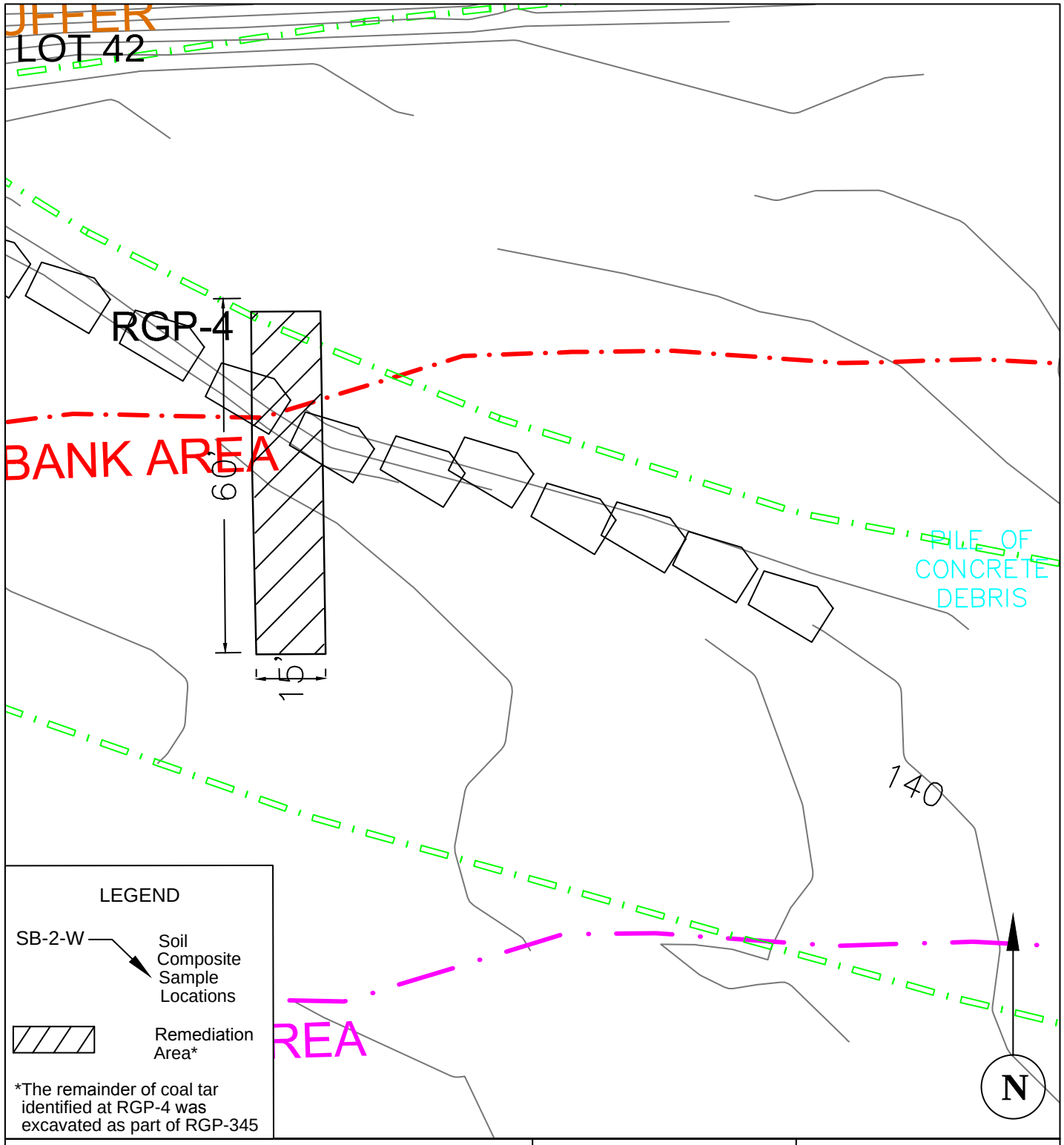
Plan showing Excavation Area for RGP-3

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 11

SCALE
0 20 40
IN FEET



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Plan showing Excavation Area for RGP-4

Lot 37, 42 & 44
Pacella Park Drive
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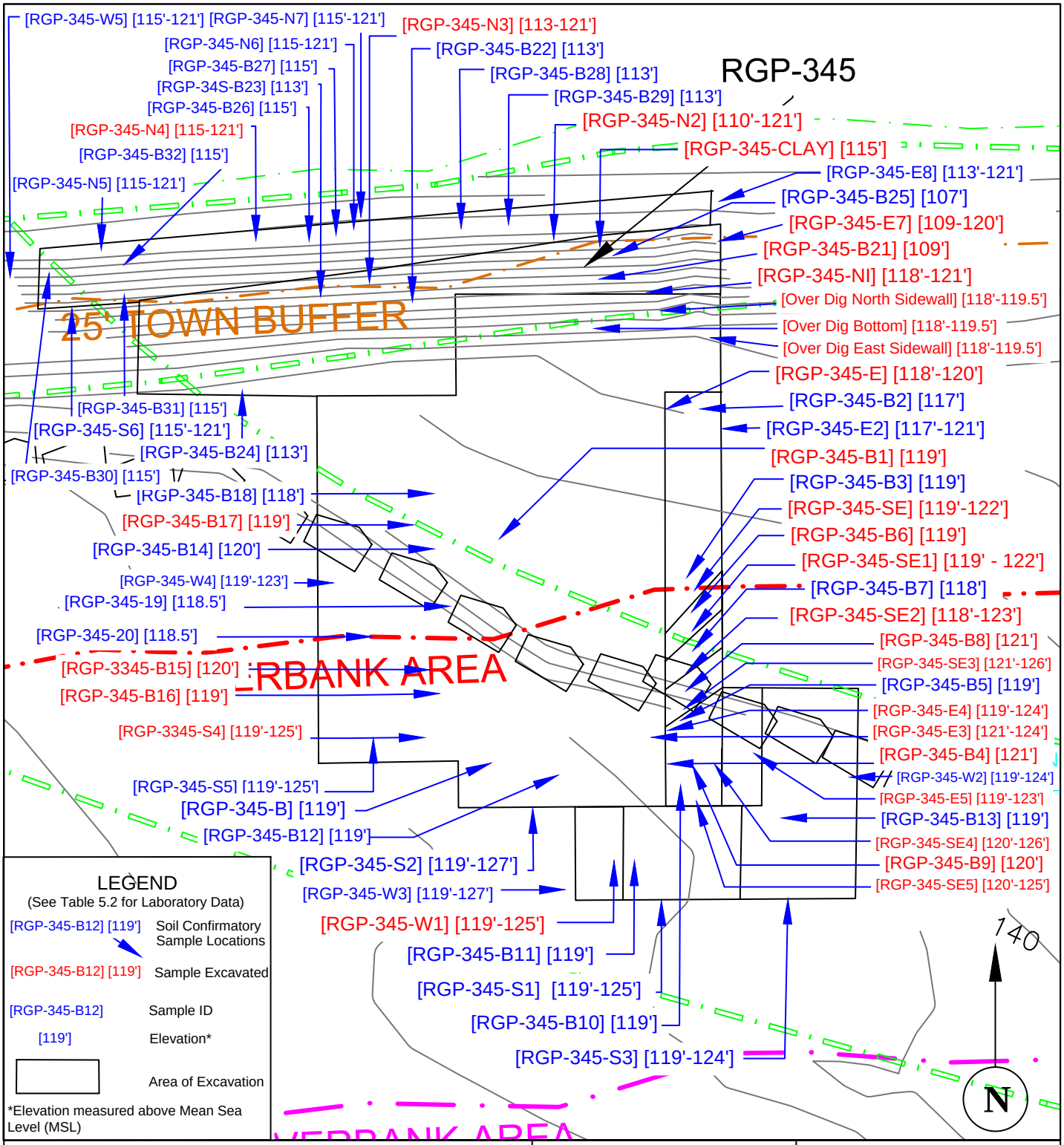
GEC Project Number 1676-5190

Figure 12

SCALE
0 20 40
IN FEET



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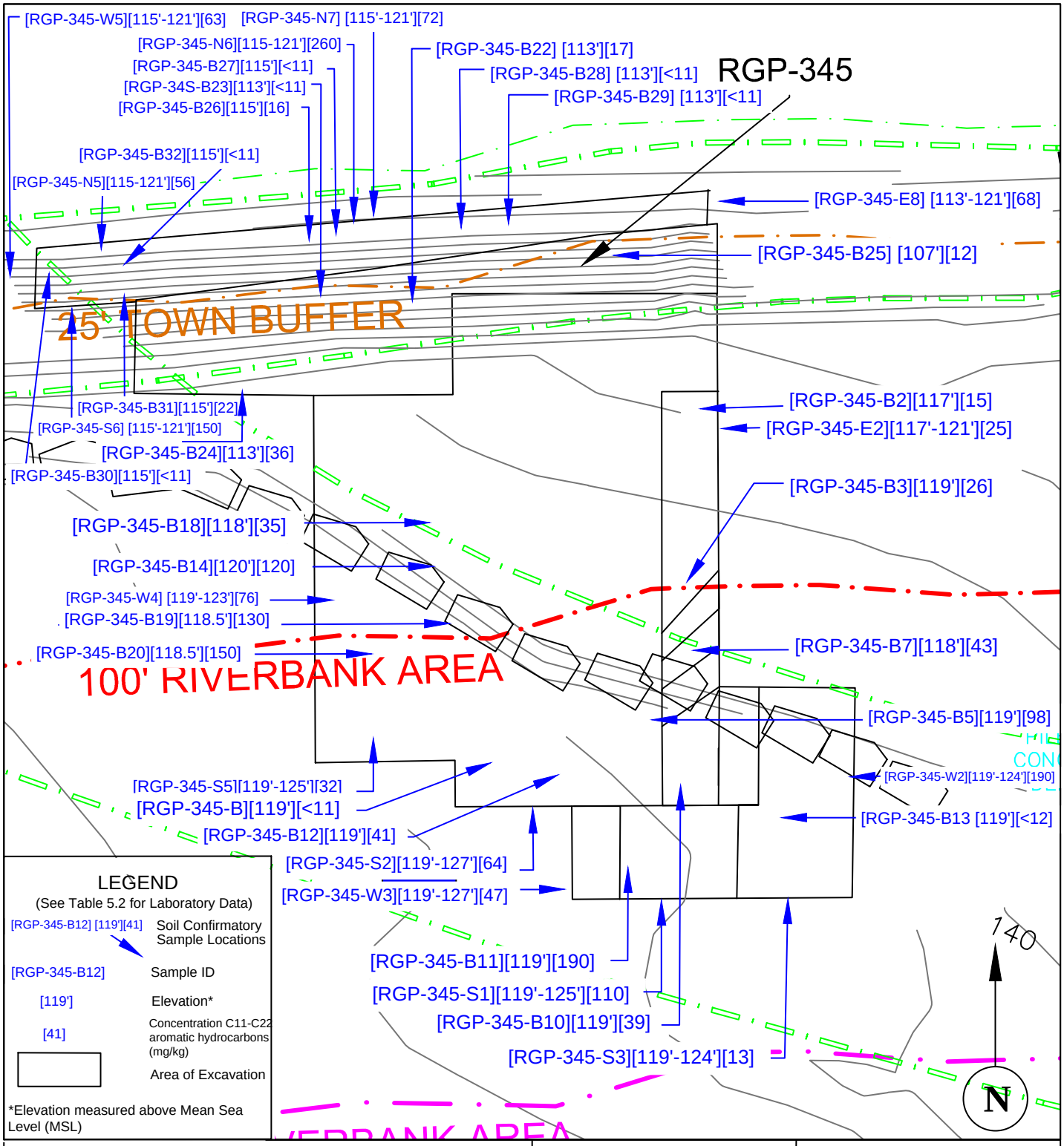
Excavation Areas for RGP-345 Showing Sample Locations

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 13A

SCALE
0 25 50
IN FEET



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Extent of Excavation Areas for RGP-345, Showing Final Confirmatory Sample Locations

Lot 37, 42 & 44
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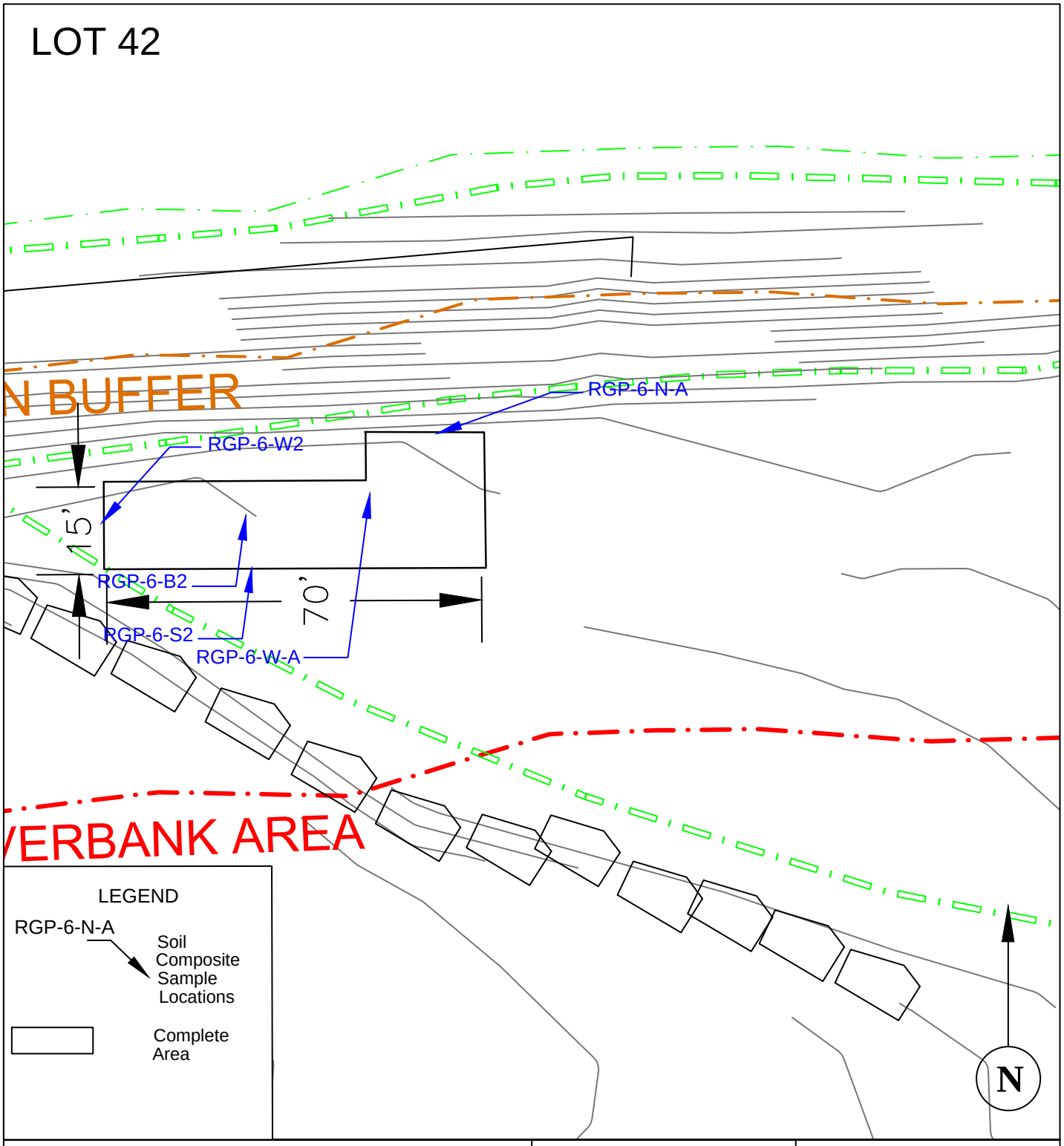
GEC Project Number 1676-5190

Figure 13B

SCALE
0 25 50
IN FEET



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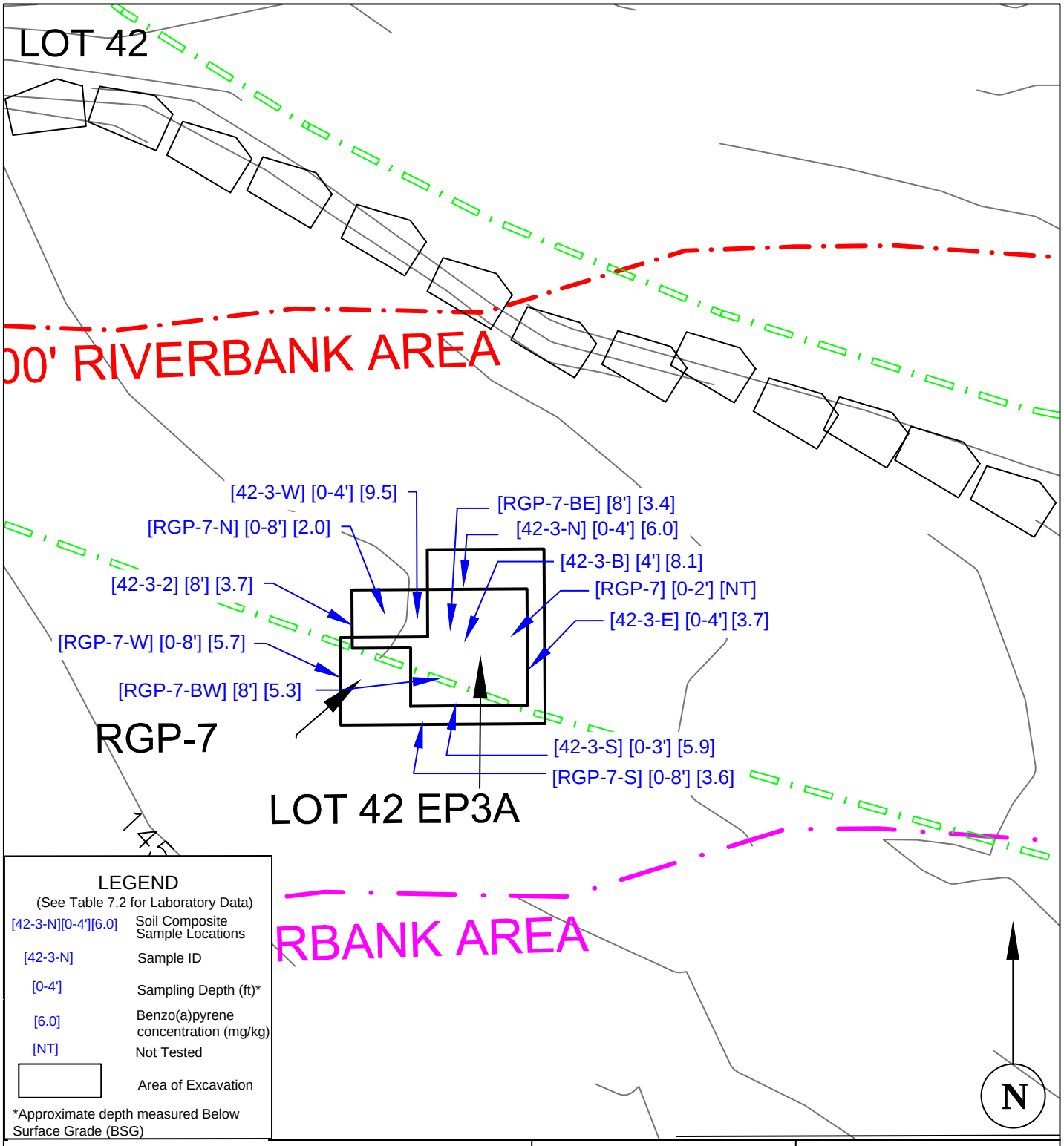
Plan showing Excavation Area for RGP-6

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 14

SCALE
0 20 40
IN FEET



LEGEND
(See Table 7.2 for Laboratory Data)

[42-3-N][0-4'][6.0]	Soil Composite Sample Locations
[42-3-N]	Sample ID
[0-4']	Sampling Depth (ft)*
[6.0]	Benzo(a)pyrene concentration (mg/kg)
[NT]	Not Tested
	Area of Excavation

*Approximate depth measured Below Surface Grade (BSG)

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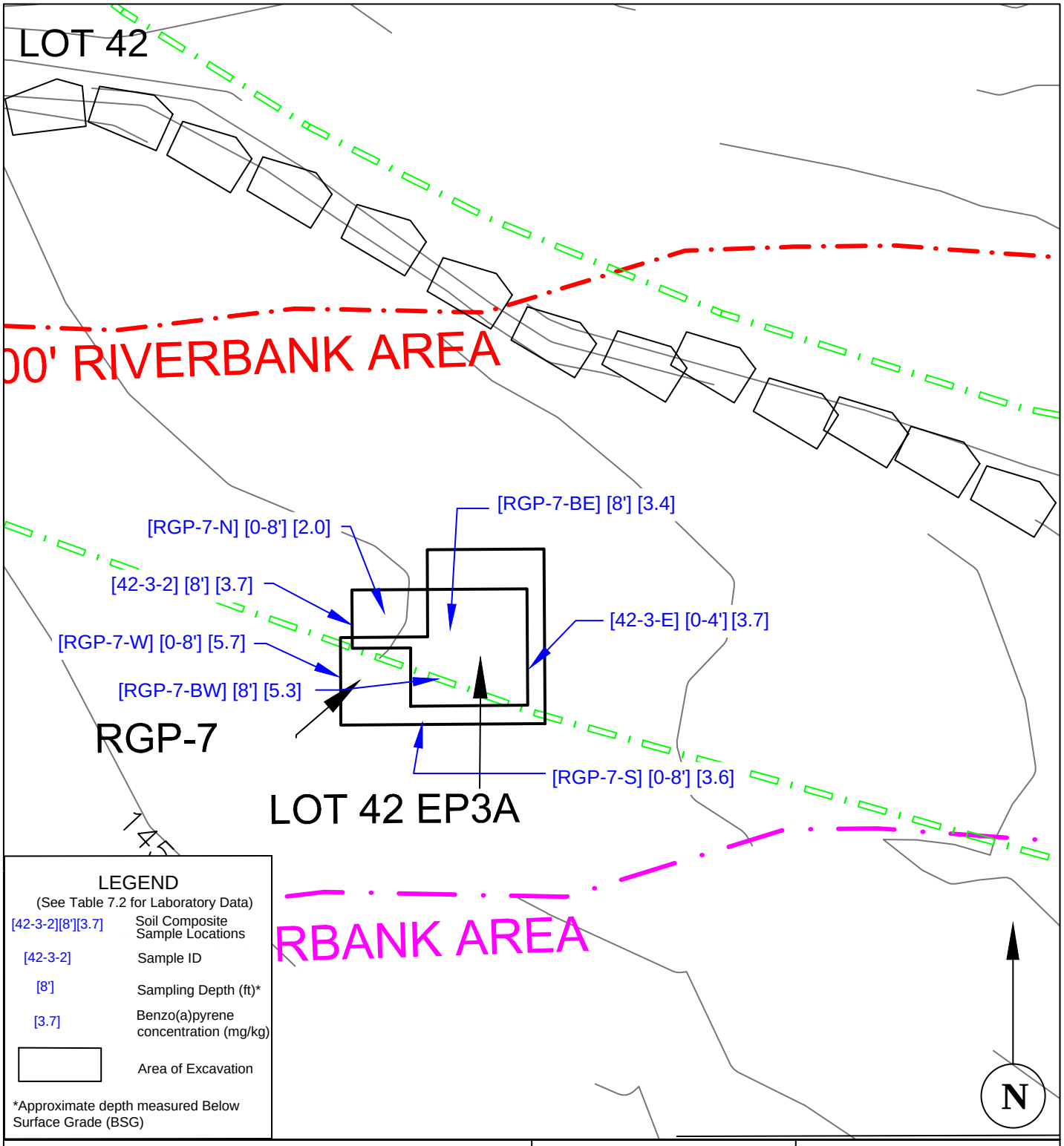
Excavation Areas for RGP-7 and Lot 42 EP3A, Showing Sample Locations

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 15A

SCALE
0 20 40
IN FEET



LEGEND
(See Table 7.2 for Laboratory Data)

[42-3-2][8'][3.7]	Soil Composite Sample Locations
[42-3-2]	Sample ID
[8']	Sampling Depth (ft)*
[3.7]	Benzo(a)pyrene concentration (mg/kg)
	Area of Excavation

*Approximate depth measured Below Surface Grade (BSG)

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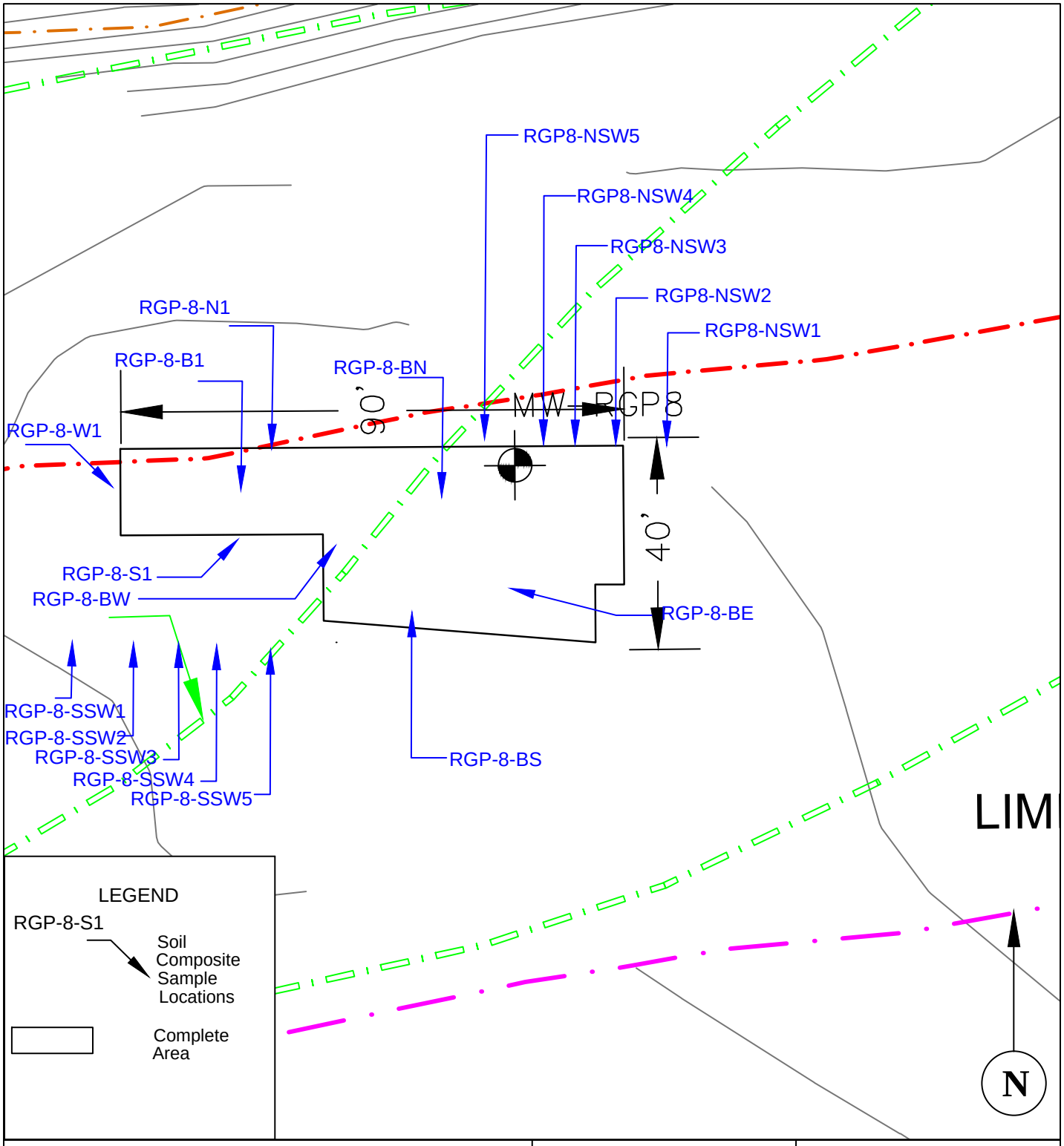
Excavation Areas for RGP-7 and Lot 42 EP3A, Showing Final Confirmatory Sample Locations

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 15B

SCALE
0 20 40
IN FEET



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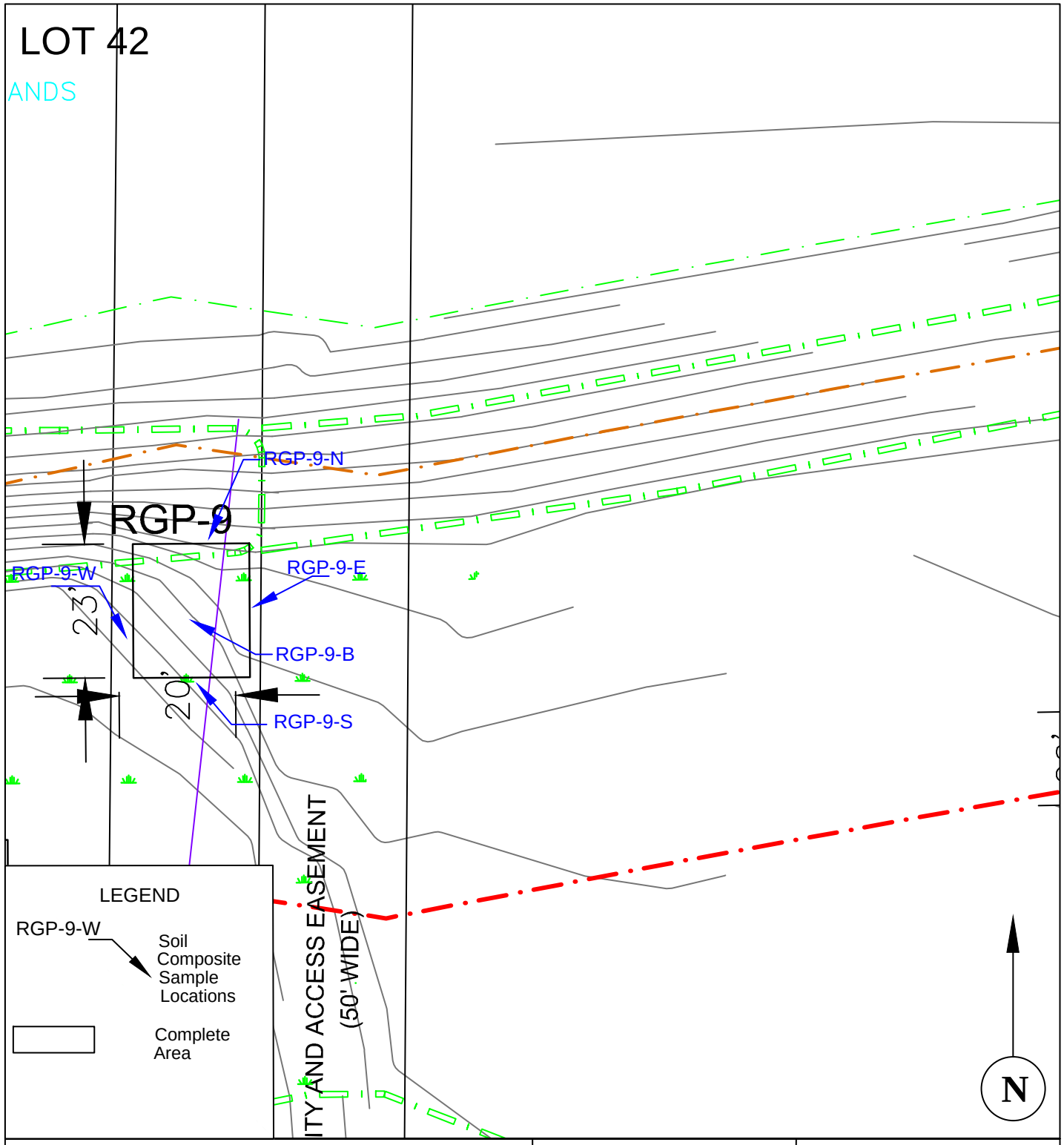
Plan showing Excavation Area for RGP-8

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 16

SCALE
0 20 40
IN FEET



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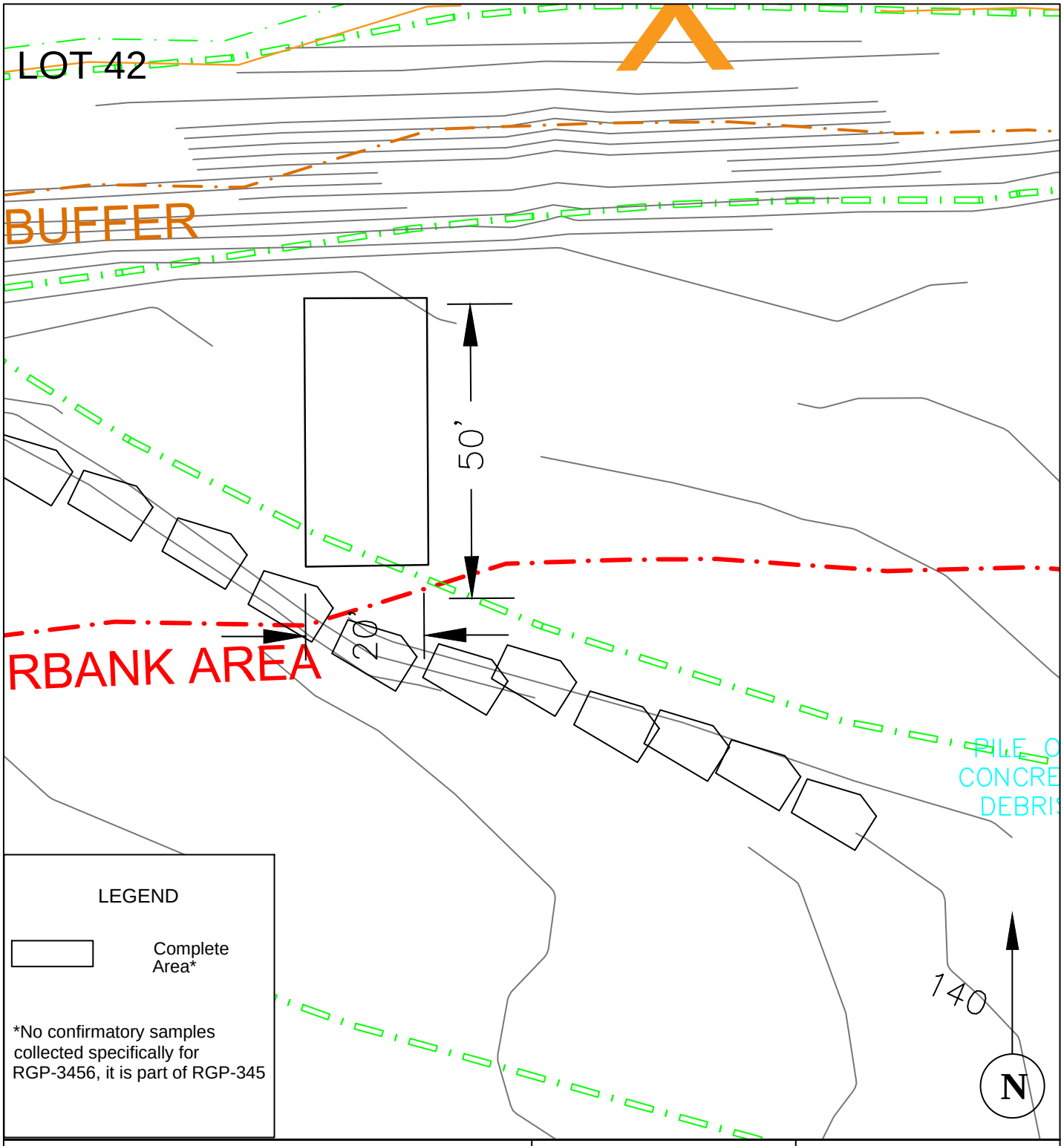
Plan showing Excavation Area for RGP-9

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 17

SCALE
0 20 40
IN FEET



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Plan showing Excavation Area for RGP-3456

Lot 37, 42 & 44
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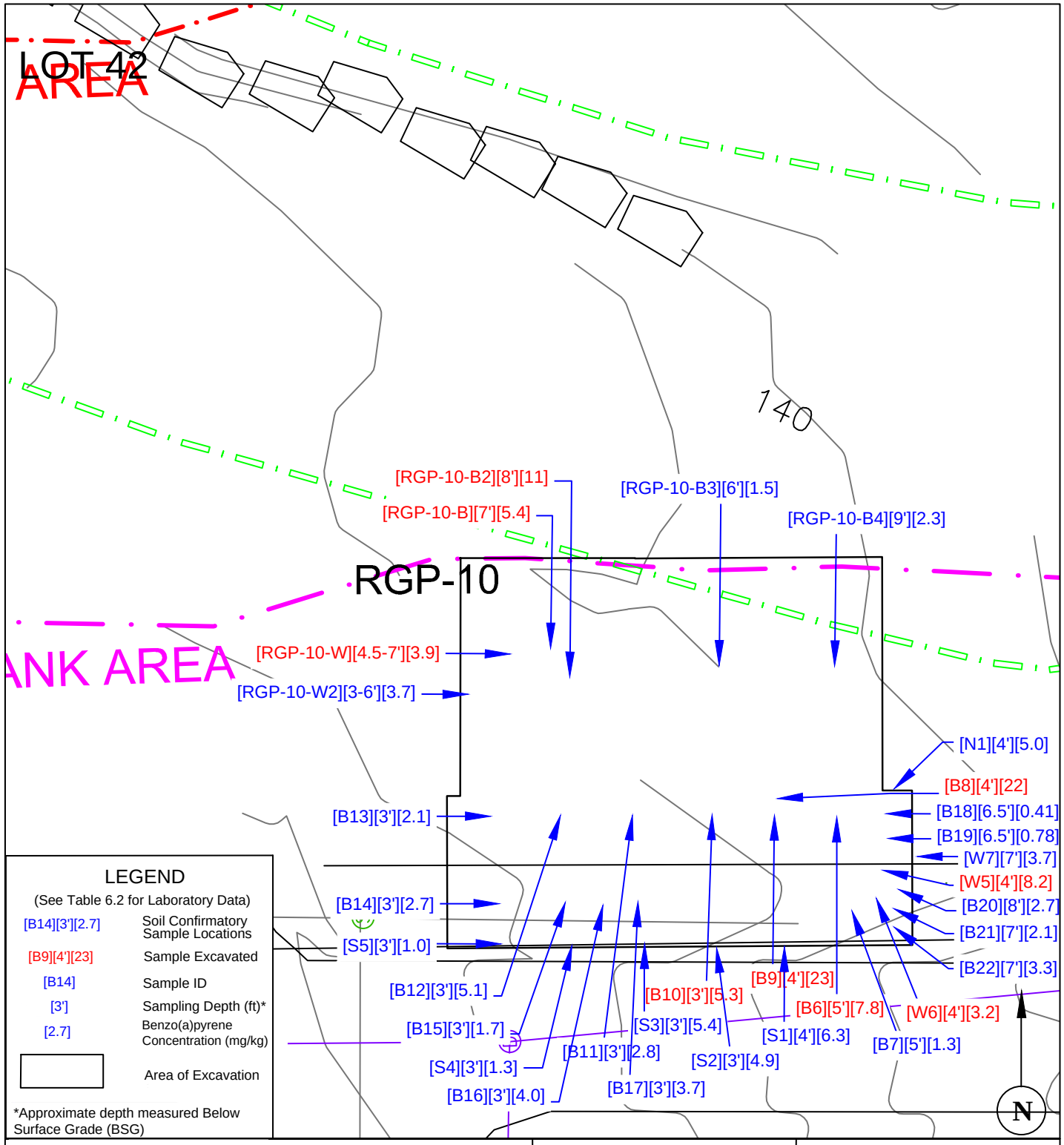
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 18

SCALE
0 20 40
IN FEET



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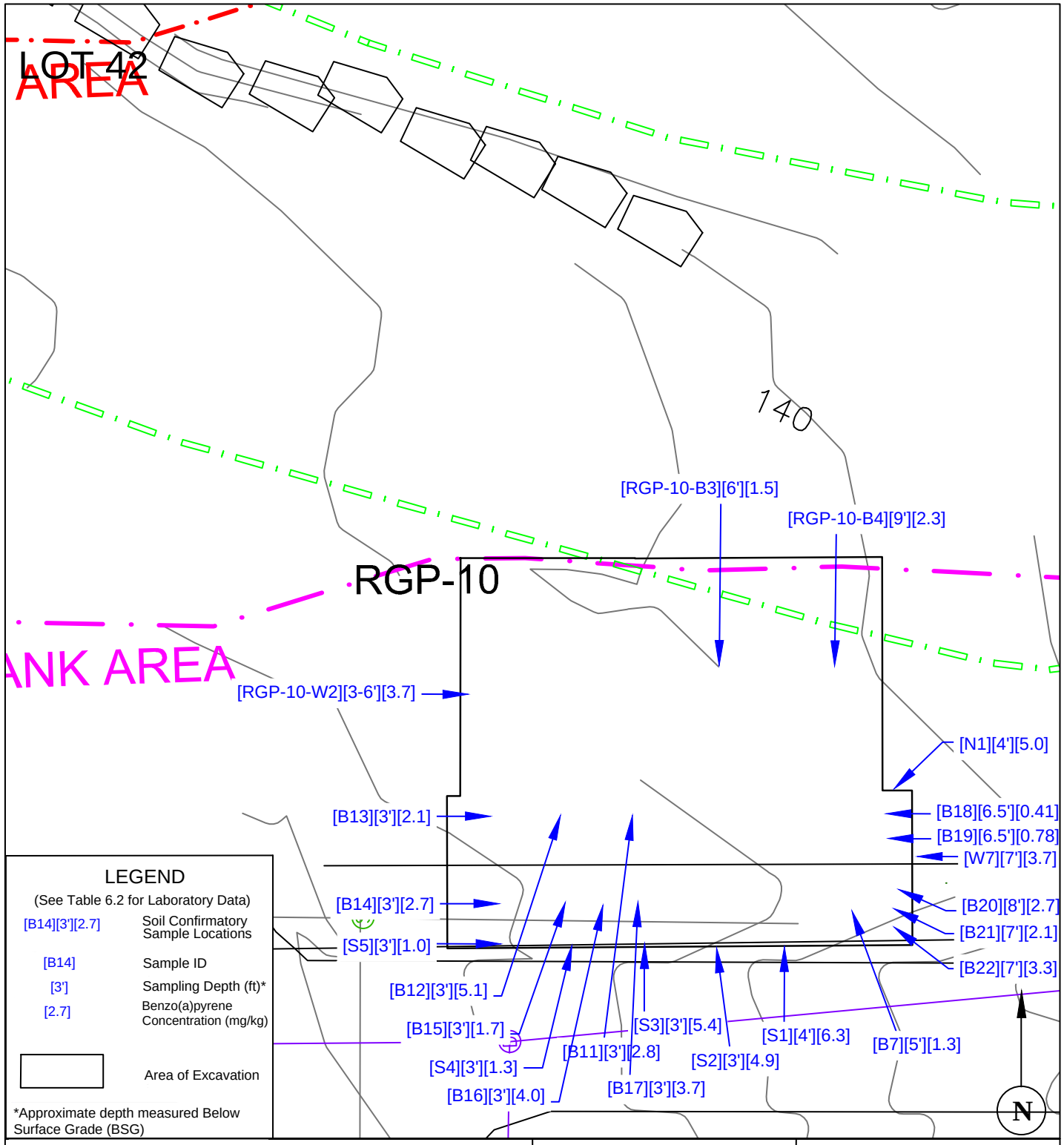
Excavation Area for RGP-10, Showing Sample Locations

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 19A

SCALE
0 20 40
IN FEET



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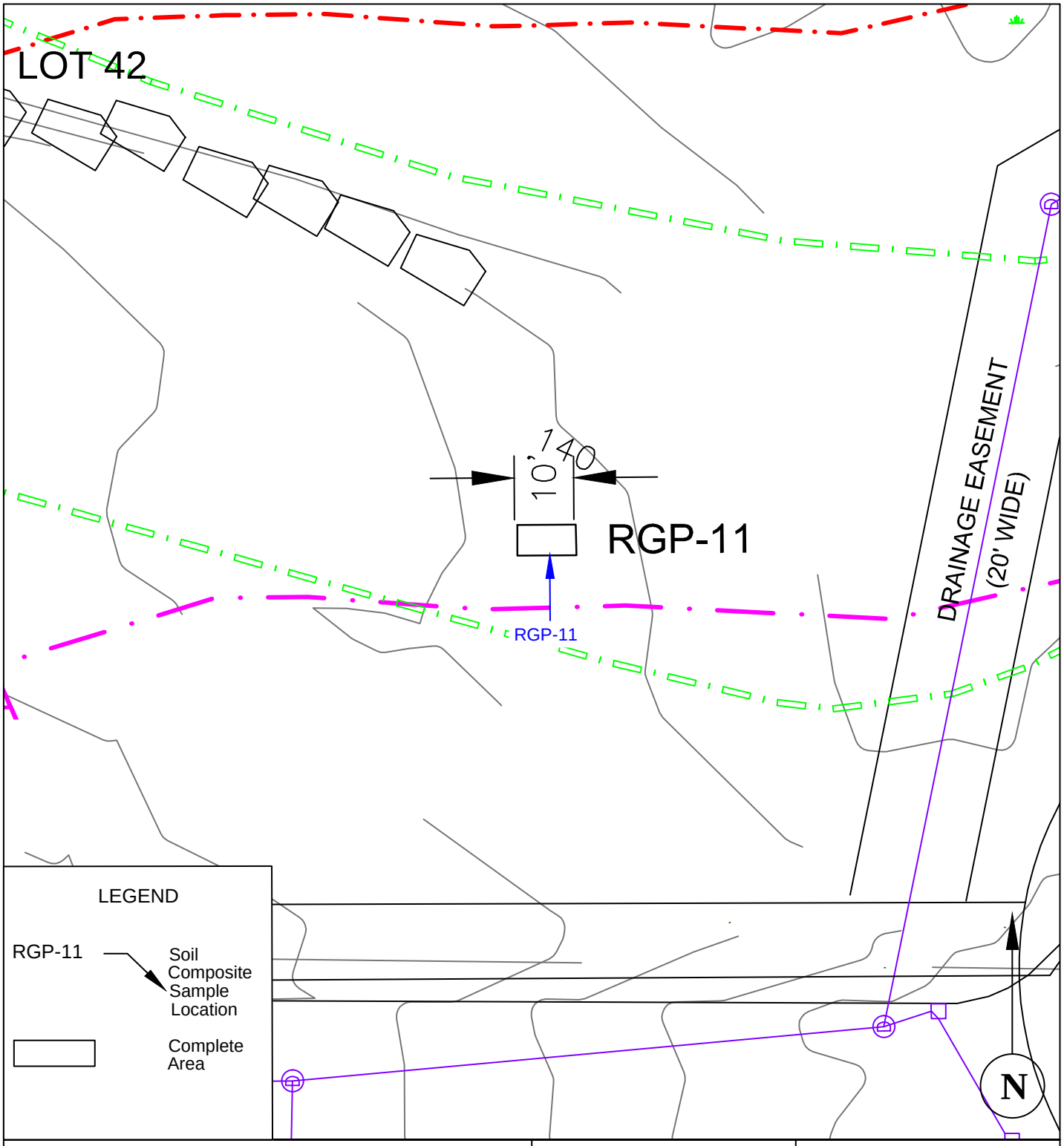
Excavation Area for RGP-10, Showing Final Confirmatory Sample Locations

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 19B

SCALE
0 20 40
IN FEET



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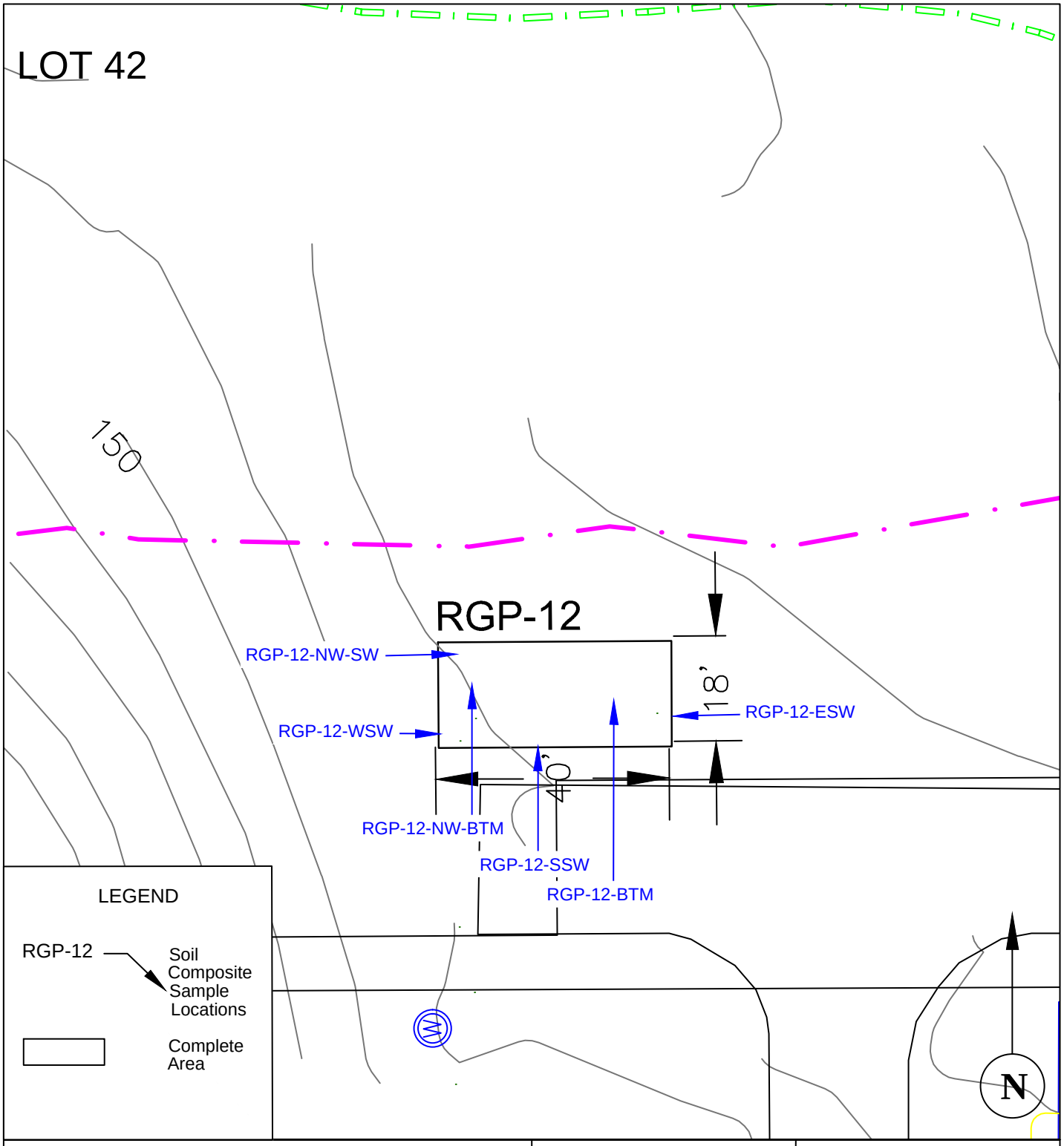
Plan showing
Area for RGP-11

Lot 37, 42 & 44
Pacella Park Drive
Randolph, Massachusetts

GEC Project Number 1676-5190

Figure 20

SCALE
0 20 40
IN FEET



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Plan showing Excavation Area for RGP-12

Lot 37, 42 & 44
Pacella Park Drive
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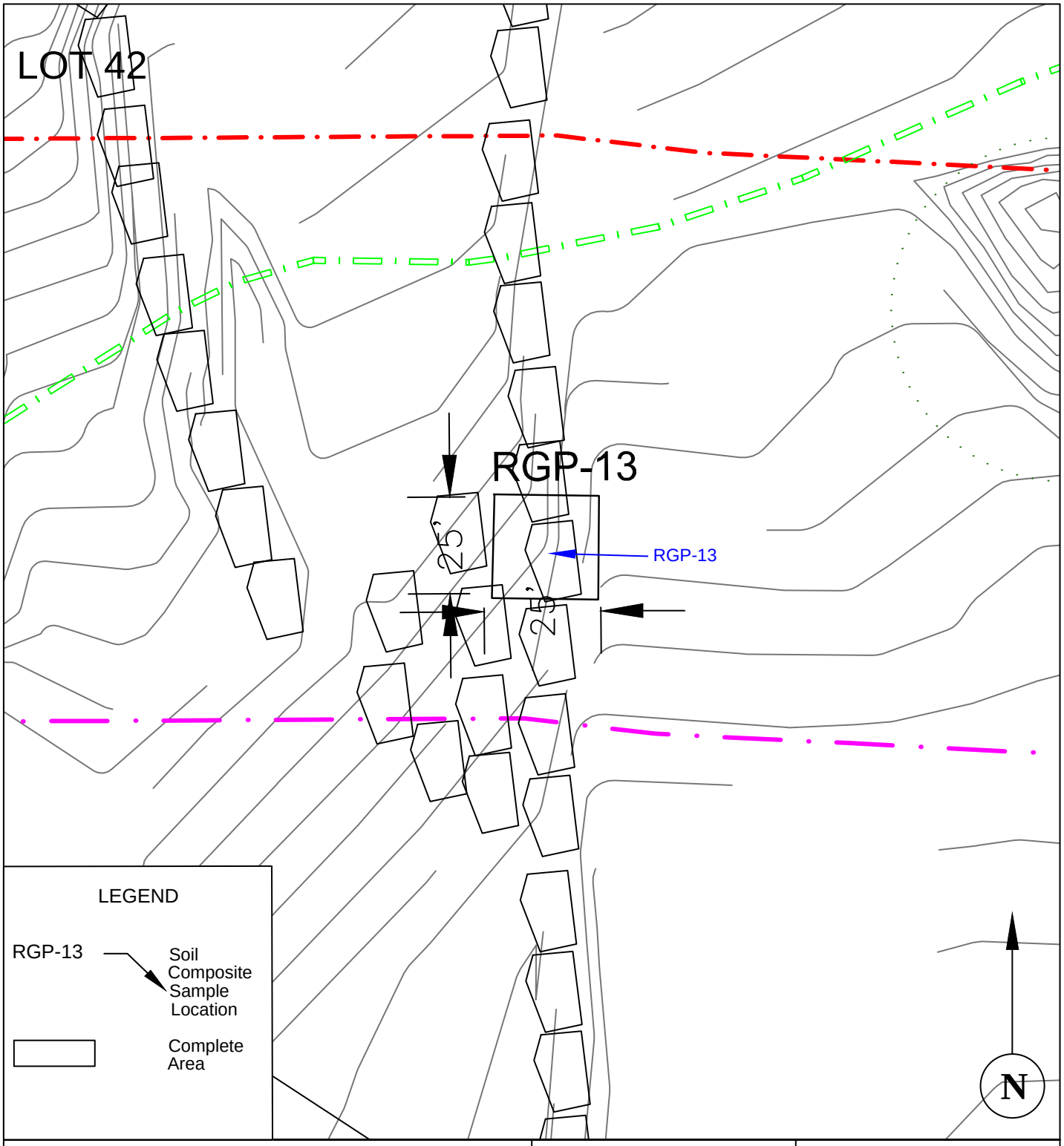
GEC Project Number 1676-5190

Figure 21

SCALE
0 20 40
IN FEET



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Plan showing
Area for RGP-13

Lot 37, 42 & 44
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GEC Project Number 1676-5190

Figure 22

SCALE
0 20 40
IN FEET

TABLES

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	STOCKPILE SAMPLING LOCATION										
	42-1-3A	**42-1-3B**	**42-1-3C**	**42-1-3D**	**42-1-3E**	**42-1-3F**	**42-1-3G**	**42-1-3H**	**42-1-3I**	**42-1-3J**	**42-1-3K**
Sampling Date	11/29/2016	11/29/2016	11/29/2016	11/29/2016	11/29/2016	11/29/2016	11/30/2016	11/30/2016	11/30/2016	11/30/2016	11/30/2016
Original Depth / Sample Depth	0-6 feet	0-6 feet	0-6 feet	0-6 feet	0-6 feet	0-6 feet	0-4 foot	0-4 foot	0-4 foot	0-4 foot	0-4 foot
SM 2540G (% Wt)											
% Solids	88.1	88.1	88.2	91.1	76.4	89.0	91.0	91.5	90.0	90.0	91.3
SW-846 8082A (mg/Kg dry)											
PCB 1016	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.13)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1221	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.13)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1232	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.13)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1242	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.13)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1248	0.16	0.40	0.13	0.11	0.23	ND (0.11)	ND (0.11)	0.13	0.23	ND (0.11)	ND (0.11)
PCB 1254	0.31	0.71	0.21	0.23	0.55	0.12	0.17	0.22	0.45	0.19	0.12
PCB 1260	0.12	0.23	0.17	0.16	0.53	0.22	0.14	0.16	0.19	ND (0.11)	0.11
PCB 1262	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.13)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1268	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.13)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
TOTAL PCBs	0.59	**1.34**	0.51	0.50	**1.31**	0.34	0.31	0.51	0.87	0.19	0.23
Key Observations						railroad tie found			railroad tie found		railroad tie found
Comment	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**Place in stockpile for >1 to <3 mg/kg PCBs**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**Place in stockpile for >1 to <3 mg/kg PCBs**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot
NOTES:											
1. ND = Not detected above											
lab reporting limits shown											
in parenthesis.											
2. NT = Not tested.											

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	STOCKPILE SAMPLING LOCATION										
	42-1-3L	**42-1-3M**	**42-1-3N**	**42-1-3O**	**42-1-3P**	**42-1-3Q**	**42-1-3R**	**42-1-3S**	**42-1-3T**	**42-1-3U**	**42-1-3V**
Sampling Date	11/30/2016	11/30/2016	11/30/2016	11/30/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016	12/1/2016
Original Depth / Sample Depth	0-4 foot	0-4 foot	0-4 foot	0-4 foot	0-4 foot	0-4 foot	0-4 foot	0-4 foot	0-4 foot	0-4 foot	0-4 foot
SM 2540G (% Wt)											
% Solids	91.9	90.8	90.1	91.4	88.7	89.4	90.6	90.3	91.2	90.7	90.6
SW-846 8082A (mg/Kg dry)											
PCB 1016	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1221	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1232	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1242	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1248	0.12	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1254	0.25	0.11	0.31	0.17	0.18	0.11	0.20	0.13	0.11	0.12	ND (0.11)
PCB 1260	0.12	0.17	ND (0.11)	0.44	0.30	ND (0.11)	0.11	0.12	0.12	ND (0.11)	ND (0.11)
PCB 1262	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1268	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
TOTAL PCBs	0.49	0.28	0.31	0.61	0.48	0.11	0.31	0.25	0.23	0.12	none detected
Key Observations		railroad ties found	railroad cross-section found			railroad tie found		railroad tie found	lightly stained soils (gray); contains wood ash, coal ash and light anthracite		railroad ballast stones found
Comment	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**Segregate and bury at depth, in a repository**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot
NOTES:											
1. ND = Not detected above											
lab reporting limits shown											
in parenthesis.											
2. NT = Not tested.											

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	STOCKPILE SAMPLING LOCATION										
	42-1-3W	**42-1-3X**	**42-1-3Y**	**42-1-3Z**	**42-1-1A**	**42-1-1B**	**42-1-1C**	**42-1-1D**	**42-1-1E**	**42-1-1F**	**42-1-1G**
Sampling Date	12/1/2016	12/2/2016	12/2/2016	12/2/2016	12/2/2016	12/2/2016	12/2/2016	12/2/2016	12/6/2016	12/6/2016	12/6/2016
Original Depth / Sample Depth	0-4 foot	0-4 foot	0-4 foot	0-4 foot	0-4 foot	0-4 foot	0-4 foot	0-4 foot	0-6 foot	0-6 foot	0-6 foot
SM 2540G (% Wt)											
% Solids	88.7	88.9	90.6	91.5	91.2	91.1	88.3	88.4	89.6	89.9	91.0
SW-846 8082A (mg/Kg dry)											
PCB 1016	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.22)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1221	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.22)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1232	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.22)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1242	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.22)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1248	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.22)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1254	0.13	ND (0.11)	ND (0.11)	ND (0.22)	0.35	0.19	0.25	0.25	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1260	0.13	0.15	0.15	**1.7**	0.93	0.71	0.38	0.79	0.15	0.58	0.27
PCB 1262	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.22)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1268	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.22)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.022)
TOTAL PCBs	0.26	0.15	0.15	**1.7**	**1.28**	0.90	0.63	**1.04**	0.15	0.58	0.27
Key Observations			railroad tie found		railroad tie & railroad cross-section; old engine part (gear) - no oily residue					numerous railroad ties and telephone poles, ash present	
Comment	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**Place in stockpile for >1 to <3 mg/kg PCBs**	**Place in stockpile for >1 to <3 mg/kg PCBs**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**Place in stockpile for >1 to <3 mg/kg PCBs**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot

NOTES:
1. ND = Not detected above lab reporting limits shown in parenthesis.
2. NT = Not tested.

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	STOCKPILE SAMPLING LOCATION										
	42-1-1H	**42-1-1I**	**42-1-1J**	**42-1-3AA**	**42-1-3BB**	**42-1-3CC**	**42-1-3DD**	**42-1-3EE**	**42-1-3FF**	**42-1-3GG**	**42-1-3HH**
Sampling Date	12/6/2016	12/6/2016	12/6/2016	12/7/2016	12/7/2016	12/7/2016	12/7/2016	12/7/2016	12/7/2016	12/9/2016	12/9/2016
Original Depth / Sample Depth	0-6 foot	0-6 foot	0-6 foot	6-10 feet	6-10 feet	6-10 feet	6-10 feet	6-10 feet	4-8 feet	4-8 feet	4-8 feet
SM 2540G (% Wt)											
% Solids	88.5	91.2	89.6	89.2	87.0	89.2	88.6	85.3	87.3	88.2	90.0
SW-846 8082A (mg/Kg dry)											
PCB 1016	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1221	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1232	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1242	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1248	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1254	ND (0.023)	ND (0.022)	ND (0.022)	3.07	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1260	0.21	0.83	0.39	0.939	ND (0.023)	0.906	0.294	0.137	0.257	0.310	0.211
PCB 1262	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1268	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)
TOTAL PCBs	0.21	0.83	0.39	**4.01**	none detected	0.91	0.29	0.14	0.26	0.31	0.21
Key Observations				railroad ties found at about 10 feet in northwest corner of 42-1-3AA, near PP and QQ.			railroad ties found at about 10 feet - east end of this area	railroad ties present - east end of this area	darker soils (coal / coal ash) below 42-1-3B and 42-1-3E	darker soils, not stained; ash, anthracite coal, 1 railroad tie - east end of this area	1 railroad tie - east end of this area
Comment	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**Place in stockpile for 3 to 5 mg/kg PCBs**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**Collect soil sample for EPH and PAH analysis via MADEP's Method; segregate and bury at depth**	**Segregate and bury at depth**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot
NOTES:											
1. ND = Not detected above											
lab reporting limits shown											
in parenthesis.											
2. NT = Not tested.											

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	STOCKPILE SAMPLING LOCATION										
	42-1-3II	**42-1-3JJ**	**42-1-3KK**	**42-1-3LL**	**42-1-3MM**	**42-1-3NN**	**42-1-3OO**	**42-1-3PP**	**42-1-3QQ**	**42-1-3RR**	**42-1-3SS**
Sampling Date	12/9/2016	12/9/2016	12/9/2016	12/13/2016	12/13/2016	12/13/2016	12/13/2016	12/13/2016	12/13/2016	12/13/2016	1/5/2017
Original Depth / Sample Depth	4-8 feet	4-8 feet	4-8 feet	4-8 feet	4-8 feet	4-8 feet	4-8 feet	4-8 feet	4-8 feet	4-8 feet	4-8 feet
SM 2540G (% Wt)											
% Solids	89.8	92.3	89.7	90.2	86.6	89.4	91.3	90.4	88.3	90.2	88.2
SW-846 8082A (mg/Kg dry)											
PCB 1016	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1221	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1232	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1242	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1248	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1254	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1260	0.093	0.508	0.813	0.844	0.269	0.940	1.58	2.01	2.47	2.04	0.759
PCB 1262	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.022)
PCB 1268	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.022)
TOTAL PCBs	0.093	0.51	0.81	0.84	0.27	0.94	**1.58**	**2.01**	**2.47**	**2.04**	0.76
Key Observations	2 large full railroad ties	small pieces of railroad ties		1 railroad tie			railroad ties and wire			railroad ties	ballast stone
Comment	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**Place in stockpile for >1 to <3 mg/kg PCBs**	**Place in stockpile for >1 to <3 mg/kg PCBs**	**Place in stockpile for >1 to <3 mg/kg PCBs**	**Place in stockpile for >1 to <3 mg/kg PCBs**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot

NOTES:
1. ND = Not detected above lab reporting limits shown in parenthesis.
2. NT = Not tested.

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	STOCKPILE SAMPLING LOCATION											
	42-1-3TT	**42-1-3UU**	**42-1-3VV**	**42-1-3WW**	**42-1-3XX**	**42-1-2A**	**42-1-2B**	**42-1-2C**	**42-1-2D**	**42-1-2E**	**42-1-2F**	**42-1-2G**
Sampling Date	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/4/2016	1/4/2016	1/4/2016	1/4/2016	1/4/2016	1/4/2016	1/4/2016
Original Depth / Sample Depth	2-8 feet*	0-8 feet*	0-8 feet*	0-8 feet*	0-8 feet*	0-8 feet	0-6 feet	0-5 feet	0-5 feet	0-6 feet	0-8 feet	0-8 feet
SM 2540G (% Wt)												
% Solids	91.8	87.6	87.8	87.0	88.5	88.1	87.4	88.0	88.3	84.9	90.0	86.6
SW-846 8082A (mg/Kg dry)												
PCB 1016	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)
PCB 1221	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)
PCB 1232	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)
PCB 1242	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)
PCB 1248	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)
PCB 1254	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)
PCB 1260	0.233	0.208	0.310	0.319	ND (0.023)	1.72	0.671	ND (0.022)	0.712	1.08	0.688	0.824
PCB 1262	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)
PCB 1268	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.022)
TOTAL PCBs	0.23	0.21	0.31	0.32	none detected	**1.72**	0.67	none detected	0.71	**1.08**	0.69	0.82
Key Observations	pockets of blue clay @ 8 feet	railroad ties; ballast stone	small pieces railroad ties	small pieces railroad ties; ballast stone	small pieces railroad ties; ballast stone	railroad ties	(sewer manhole cut)			pieces of railroad ties; ballast stone	small pieces railroad ties	railroad ties, ballast rock, concrete pieces with railroad rails attached
Comment	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**Place in stockpile for >1 to <3 mg/kg PCBs**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**Place in stockpile for >1 to <3 mg/kg PCBs**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot
	* After excavating the 0-4 foot interval soils in this area, 42-1-3TT to 42-1-3XX were built up using soils from adjacent Lot 42 EP1B area, to create an access ramp.											
NOTES:	These samples were collected from excavated soils once ramp was no longer needed.											
1. ND = Not detected above												
lab reporting limits shown												
in parenthesis.												
2. NT = Not tested.												

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	STOCKPILE SAMPLING LOCATION											
	42-1-2H	**42-1-2I**	**42-1-2J**	**42-1-2K**	**42-1-2L**	**42-1-2M**	**42-1-2N**	**42-1-2O**	**42-1-2P**	**42-1-2Q**	**42-1-2R**	**42-1-1AA**
Sampling Date	1/5/2017	1/5/2017	1/5/2017	1/11/2017	1/11/2017	1/11/2017	1/11/2017	1/11/2017	1/11/2017	1/11/2017	1/11/2017	1/12/2017
Original Depth / Sample Depth	0-8 feet	0-8 feet	0-8 feet	0-8 feet	0-8 feet	0-8 feet	0-8 feet	0-8 feet	0-8 feet	0-8 feet	0-8 feet	4-9 feet
SM 2540G (% Wt)												
% Solids	87.9	90.6	87.4	89.4	86.3	82.3	84.8	89.2	88.1	86.4	84.8	86.6
SW-846 8082A (mg/Kg dry)												
PCB 1016	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)
PCB 1221	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)
PCB 1232	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)
PCB 1242	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)
PCB 1248	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)
PCB 1254	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.046)
PCB 1260	0.110	0.941	**4.50**	**4.79**	**1.74**	0.837	0.0911	0.075	0.497	0.225	0.244	0.116
PCB 1262	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)
PCB 1268	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)
TOTAL PCBs	0.11	0.94	**4.50**	**4.79**	**1.74**	0.84	0.091	0.075	0.50	0.23	0.24	0.12
Key Observations	railroad ties; ballast stone	ballast stone	ballast stone; blue clay layer @ 6 feet				Native soil at 8 feet along sidewall and bottom	Native soils at 8 feet			small railroad tie pieces	native soil at 9 feet; ledge knob observed
Comment	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**Given PCB level near 1 mg/kg, proximity to 42-1-2J and presence of RR material, add to soils containing >1 but <3 mg/kg PCBs**	**Place in stockpile for 3 to 5 mg/kg PCBs**	**Place in stockpile for 3 to 5 mg/kg PCBs**	**Place in stockpile for >1 to <3 mg/kg PCBs**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot
NOTES:												
1. ND = Not detected above												
lab reporting limits shown												
in parenthesis.												
2. NT = Not tested.												

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	STOCKPILE SAMPLING LOCATION											
	42-1-1BB	**42-1-1CC**	**42-1-1DD**	**42-1-1EE**	**42-1-1FF**	**42-1-1GG**	**42-1-1HH**	**42-1-1II**	**42-1-1JJ**	**42-1-1KK**	**42-1-1LL**	**42-1-1MM**
Sampling Date	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017
Original Depth / Sample Depth	4-9 feet	4-9 feet	4-9 feet	4-9 feet	4-9 feet	4-9 feet	4-9 feet	4-9 feet	4-9 feet	4-9 feet	4-9 feet	4-9 feet
SM 2540G (% Wt)												
% Solids	83.3	86.0	85.4	83.6	75.5	90.4	84.5	86.8	79.3	85.9	84.1	85.8
SW-846 8082A (mg/Kg dry)												
PCB 1016	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.026)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.023)
PCB 1221	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.026)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.023)
PCB 1232	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.026)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.023)
PCB 1242	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.026)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.023)
PCB 1248	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.026)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.023)
PCB 1254	0.0710	0.0754	0.0790	0.0334	ND (0.026)	ND (0.022)	ND (0.024)	ND (0.023)	0.0919	0.208	0.187	0.115
PCB 1260	0.0532	0.0526	0.137	0.0575	0.0684	ND (0.022)	ND (0.024)	0.0703	0.039	0.0962	0.0772	0.0229
PCB 1262	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.026)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.023)
PCB 1268	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.026)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.023)
TOTAL PCBs	0.12	0.13	0.22	0.091	0.068	none detected	none detected	0.070	0.13	0.30	0.26	0.14
Key Observations					small pieces of railroad ties on western edge	railroad ties along western edge			native soil at 9 feet	small railroad tie pieces in center of area	railroad tie pieces in center of area; ash/coal odor; darker soils; PID = 1 ppmv	
Comment	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot

NOTES:
1. ND = Not detected above lab reporting limits shown in parenthesis.
2. NT = Not tested.

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	STOCKPILE SAMPLING LOCATION											
	42-1-1NN	**42-1-2S**	**42-1-2AA**	**42-1-2BB**	**42-1-2CC**	**42-1-2DD**	**42-1-2EE**	**42-1-2FF**	**42-1-2GG**	**42-1-3AAA**	**42-1-3BBB**	**42-1-3CCC**
Sampling Date	1/12/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/19/2017
Original Depth / Sample Depth	4-9 feet	0-6 feet	8-12 feet	8-11 feet	7-10 feet	7-10 feet	6-10 feet	8-10 feet	8-10 feet	8-10 feet	8-10 feet	8-12 feet
SM 2540G (% Wt)												
% Solids	88.7	86.9	82.8	84.0	84.7	85.3	83.4	92.9	86.4	86.5	87.6	76.4
SW-846 8082A (mg/Kg dry)												
PCB 1016	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.025)
PCB 1221	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.025)
PCB 1232	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.025)
PCB 1242	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.025)
PCB 1248	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.025)
PCB 1254	0.0948	ND (0.023)	ND (0.024)	**3.770**	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.025)
PCB 1260	ND (0.022)	**1.2**	0.171	**0.904**	0.771	0.597	0.159	ND (0.021)	ND (0.023)	0.072	0.0336	0.0446
PCB 1262	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.025)
PCB 1268	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.025)
TOTAL PCBs	0.095	**1.2**	0.171	**4.7**	0.771	0.597	0.159	none detected	none detected	0.072	0.0336	0.045
Key Observations		looked like natural soils at 3 feet	natural soils at 11 feet	minor railroad ties in center of area		minor railroad ties	railroad debris in middle of area	natural soils at 9-10 feet	natural soils at 9-10 feet	railroad ties in center of area	railroad ties in center of area	railroad tie debris
Comment	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**Place in stockpile for >1 to <3 mg/kg PCBs**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**Place in stockpile for 3 to 5 mg/kg PCBs**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot
NOTES:												
1. ND = Not detected above												
lab reporting limits shown												
in parenthesis.												
2. NT = Not tested.												

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	STOCKPILE SAMPLING LOCATION											
	42-1-3DDD	**42-1-3EEE**	**42-1-3FFF**	**42-1-3GGG**	**42-1-1OO**	**42-1-1PP**	**42-1-1QQ**	**42-1-3HHH**	**42-1-3III**	**42-1-3JJJ**	**42-1-3KKK**	**42-1-3LLL**
Sampling Date	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/26/2017	1/26/2017	1/26/2017	1/26/2017	1/26/2017
Original Depth / Sample Depth	8-12 feet	8-12 feet	8-12 feet	8-11 feet	6-10 feet	6-10 feet	6-10 feet	8-12 feet	8-12 feet	8-12 feet	8-12 feet	8-12 feet
SM 2540G (% Wt)												
% Solids	87.2	86.0	85.1	84.8	85.0	91.3	85.8	84.0	85.1	87.1	82.8	84.8
SW-846 8082A (mg/Kg dry)												
PCB 1016	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)
PCB 1221	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)
PCB 1232	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)
PCB 1242	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)
PCB 1248	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)
PCB 1254	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	0.0715	0.0392	0.218	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)
PCB 1260	0.110	ND (0.023)	0.203	0.243	0.0348	ND (0.021)	0.109	0.345	0.247	0.093	0.386	1.11
PCB 1262	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)
PCB 1268	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.021)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)
TOTAL PCBs	0.11	none detected	0.20	0.24	0.11	0.039	0.33	0.35	0.25	0.093	0.39	**1.11**
Key Observations	minor railroad tie debris			railroad tie debris	small railroad ties	railroad tie debris		minor railroad debris; natural soil in southwest corner at 12 feet	railroad tie debris	minor railroad tie debris		railroad tie debris
Comment	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**Place in stockpile for >1 to <3 mg/kg PCBs**

NOTES:
1. ND = Not detected above lab reporting limits shown in parenthesis.
2. NT = Not tested.

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	STOCKPILE SAMPLING LOCATION											
	42-1-3MMM	**42-1-3NNN**	**42-1-3OOO**	**42-1-3PPP**	**42-1-3QQQ**	**42-1-3RRR**	**42-1-3SSS**	**42-1-3TTT**	**42-1-3UUU**	**42-1-3VVV**	**42-1-3AAAA**	**42-1-3BBBB**
Sampling Date	1/26/2017	1/26/2017	1/26/2017	1/26/2017	1/27/2017	1/27/2017	1/27/2017	1/27/2017	1/27/2017	1/27/2017	1/27/2017	1/27/2017
Original Depth / Sample Depth	8-12 feet	8-12 feet	8-12 feet	8-12 feet	8-12 feet	8-12 feet	8-12 feet	8-12 feet	8-12 feet	8-12 feet	12-16 feet	12-16 feet
SM 2540G (% Wt)												
% Solids	86.3	86.1	83.6	86.3	81.5	80.2	81.8	91.4	86.9	90.2	86.3	87.5
SW-846 8082A (mg/Kg dry)												
PCB 1016	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.025)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)
PCB 1221	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.025)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)
PCB 1232	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.025)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)
PCB 1242	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.025)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)
PCB 1248	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.025)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)
PCB 1254	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.025)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)
PCB 1260	1.29	1.48	0.416	0.0601	0.0844	0.189	0.108	0.0663	0.0955	0.112	0.0866	0.028
PCB 1262	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.025)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)
PCB 1268	ND (0.023)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.025)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)
TOTAL PCBs	**1.29**	**1.48**	0.42	0.060	0.084	0.19	0.11	0.066	0.096	0.11	0.087	0.028
Key Observations	small railroad tie debris; ballast stone in north end	railroad tie debris	railroad tie debris	railroad tie debris	minor railroad tie debris		minor railroad tie debris	telephone pole	small railroad tie		natural soil at 15-16 feet	natural soil at 15-16 feet
Comment	**Place in stockpile for >1 to <3 mg/kg PCBs**	**Place in stockpile for >1 to <3 mg/kg PCBs**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot
NOTES:												
1. ND = Not detected above												
lab reporting limits shown												
in parenthesis.												
2. NT = Not tested.												

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	STOCKPILE SAMPLING LOCATION											
	42-1-3CCCC	**42-1-3DDDD**	**42-1-3EEEE**	**42-1-3FFFF**	**42-1-3GGGG**	**42-1-3HHHH**	**42-1-3IIII**	**42-1-1AAA**	**42-1-2AAA**	**42-1-2BBB**	**42-1-2-4F**	**42-1-3JJJJ**
Sampling Date	1/30/2017	1/30/2017	1/30/2017	1/30/2017	1/30/2017	1/30/2017	1/30/2017	1/30/2017	2/3/2017	2/3/2017	2/3/2017	2/3/2017
Original Depth / Sample Depth	12-15 feet	12-15 feet	12-15 feet	12-15 feet	12-15 feet	12-15 feet	12-15 feet	9-13 feet	12-14 feet	12-14 feet	12-15 feet	12-14 feet
SM 2540G (% Wt)												
% Solids	84.9	82.3	81.9	82.2	83.6	79.2	78.0	82.7	87.2	84.9	90.7	85.6
SW-846 8082A (mg/Kg dry)												
PCB 1016	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.026)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)
PCB 1221	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.026)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)
PCB 1232	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.026)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)
PCB 1242	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.026)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)
PCB 1248	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.026)	ND (0.024)	ND (0.023)	0.307	ND (0.022)	0.120
PCB 1254	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.026)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)
PCB 1260	0.0396	0.0481	0.0478	0.929	ND (0.023)	ND (0.025)	0.0435	0.0453	0.354	0.259	0.0931	0.0817
PCB 1262	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.026)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)
PCB 1268	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.026)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)
TOTAL PCBs	0.040	0.048	0.048	0.93	none detected	none detected	0.044	0.045	0.35	0.57	0.093	0.20
Key Observations	natural soil at 15 feet	natural soil at 15 feet	natural soil at 15 feet	natural soil at 15 feet	natural soil at 15 feet	natural soil at 15 feet	natural soil at 15 feet	natural soil at 13 feet	natural soil at 13-14 feet	natural soil at 13-14 feet	minor railroad tie debris	natural soil @ 14 feet; ledge in center @13 feet
Comment	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**This sample is close to limit; combine with >1 to <3 mg/kg PCB soils**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot
NOTES:												
1. ND = Not detected above												
lab reporting limits shown												
in parenthesis.												
2. NT = Not tested.												

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	STOCKPILE SAMPLING LOCATION								
	42-1-3KKKK	**42-1-3LLLL**	**42-1-3MMMM**	**42-1-1BBB**	**42-1-1CCC**	**42-1-1DDD**	**42-1-1EEE**	**42-1-1FFF**	**42-1-2DDEE**
Sampling Date	2/3/2017	2/3/2017	2/3/2017	2/6/2017	2/6/2017	2/6/2017	2/6/2017	2/6/2017	2/15/2017
Original Depth / Sample Depth	12-14 feet	12-15 feet	12-15 feet	9-13 feet	9-13 feet	9-13 feet	9-13 feet	9-13 feet	0-10 feet
SM 2540G (% Wt)									
% Solids	87.7	88.9	85.7	84.6	84.1	87.5	88.2	87.2	85.9
SW-846 8082A (mg/Kg dry)									
PCB 1016	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)
PCB 1221	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)
PCB 1232	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)
PCB 1242	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)
PCB 1248	ND (0.022)	0.276	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.023)	0.569	ND (0.022)	ND (0.023)
PCB 1254	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	0.527	0.295	0.181	ND (0.023)
PCB 1260	0.0982	0.127	0.0855	0.0323	0.0490	0.0454	0.0543	0.0922	0.109
PCB 1262	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)
PCB 1268	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)
TOTAL PCBs	0.098	0.40	0.086	0.032	0.049	0.57	0.92	0.27	0.11
Key Observations	natural soil @ 14 feet	natural soil @ 15 feet	minor railroad tie debris; natural soil @ 15 feet	natural soil @ 13 feet	natural soil @ 13 feet	natural soil @ 13 feet	natural soil @ 13 feet	natural soil @ 13 feet	natural soil @ 3 feet
Comment	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	**This sample is close to limit; combine with >1 to <3 mg/kg PCB soils**	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot	Release for processing - re-use 6 feet below grade, if room; must re-use beneath building foundation or paved parking lot
NOTES:									
1. ND = Not detected above									
lab reporting limits shown									
in parenthesis.									
2. NT = Not tested.									

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	SIDEWALL AND BOTTOM SAMPLING LOCATIONS											
	42-1-NW Wall	**42-1-SW Wall**	**42-1-3S1**	**42-1-3B North Wall**	**42-1-2N Bottom**	**42-1-2N East Sidewall**	**42-1-2N South Sidewall**	**42-1-3OP Sidewall**	**42-1-3N Bottom**	**42-1-1AA Bottom**	**42-1-1JJ Bottom**	**42-1-1A North Sidewall**
Sampling Date	11/29/2016	11/29/2016	12/1/2016	12/9/2016	1/11/2017	1/11/2017	1/11/2017	1/11/2017	1/11/2017	1/12/2017	1/12/2017	1/13/2017
Original Depth / Sample Depth	0-4 feet	0-4 feet	0-4 feet	4-8 feet	8 feet	4-8 feet	4-8 feet	0-5 feet	8 feet	9 feet	9 feet	0-4 feet
SM 2540G (% Wt)												
% Solids	86.7	87.0	84.4	89.0	86.1	84.7	81.6	85.5	85.0	78.0	84.9	84.5
SW-846 8082A (mg/Kg dry)												
PCB 1016	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.025)	ND (0.023)	ND (0.023)
PCB 1221	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.025)	ND (0.023)	ND (0.023)
PCB 1232	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.025)	ND (0.023)	ND (0.023)
PCB 1242	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.025)	ND (0.023)	ND (0.023)
PCB 1248	0.18	0.13	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.025)	ND (0.023)	ND (0.023)
PCB 1254	0.32	0.24	0.17	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.024)	ND (0.023)	ND (0.023)	ND (0.025)	ND (0.023)	ND (0.023)
PCB 1260	0.20	0.17	0.13	0.206	ND (0.022)	ND (0.024)	ND (0.024)	ND (0.047)	ND (0.023)	ND (0.025)	ND (0.023)	ND (0.023)
PCB 1262	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.024)	ND (0.047)	ND (0.023)	ND (0.025)	ND (0.023)	ND (0.023)
PCB 1268	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.024)	ND (0.047)	ND (0.023)	ND (0.025)	ND (0.023)	ND (0.023)
TOTAL PCBs	0.70	0.54	0.30	0.21	none detected	none detected	none detected	none detected	none detected	none detected	none detected	none detected
Key Observations				PID readings along north sidewall of 42-1-3B up to 7 ppmv.	natural soils	natural soils	natural soils			natural soils	natural soils	
Comment												
NOTES:												
1. ND = Not detected above												
lab reporting limits shown												
in parenthesis.												
2. NT = Not tested.												

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	SIDEWALL AND BOTTOM SAMPLING LOCATIONS											
	42-1-1JI East Sidewall	**42-1-2BCD East Sidewall**	**42-1-2AA Bottom**	**42-1-2BB Bottom**	**42-1-2R 0-4' South Sidewall**	**42-1-2R 4-8' South Sidewall**	**42-1-2OQ 0-4' South Sidewall**	**42-1-2OQ 4-8' South Sidewall**	**42-1-1PQ North Sidewall**	**42-1-2IJS East Sidewall**	**42-1-1PPQQ North Sidewall**	**42-1-3HHH South Sidewall**
Sampling Date	1/13/2017	1/17/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/18/2017	1/19/2017	1/20/2016	1/26/2017	1/26/2017
Original Depth / Sample Depth	0-6 feet	0-5 feet	11 feet	11 feet	0-4 feet	4-8 feet	0-4 feet	4-8 feet	3-10 feet	0-6 feet	3-6 feet	8-12 feet
SM 2540G (% Wt)												
% Solids	85.9	88.2	91.7	87.1	86.2	87.0	88.7	88.0	87.0	97.9	82.6	90.0
SW-846 8082A (mg/Kg dry)												
PCB 1016	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.020)	ND (0.024)	ND (0.021)
PCB 1221	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.020)	ND (0.024)	ND (0.021)
PCB 1232	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.020)	ND (0.024)	ND (0.021)
PCB 1242	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.020)	ND (0.024)	ND (0.021)
PCB 1248	0.201	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.020)	ND (0.024)	ND (0.021)
PCB 1254	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	1.17	ND (0.020)	ND (0.024)	ND (0.021)
PCB 1260	0.150	0.047	0.0455	0.0297	ND (0.023)	ND (0.022)	0.0277	ND (0.022)	0.242	ND (0.020)	0.0302	0.0443
PCB 1262	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.020)	ND (0.024)	ND (0.021)
PCB 1268	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.020)	ND (0.024)	ND (0.021)
TOTAL PCBs	0.35	0.047	0.0455	0.0297	none detected	none detected	0.0277	none detected	**1.41**	none detected	0.030	0.044
Key Observations										natural soils observed starting at 1.5 feet below grade	ledge/bedrock at 6 feet; natural soil at 5 feet	
Comment									**Additional excavation needed north of 42-1-1PQ (actually north of 42-1-1PP and 42-1-1QQ) was conducted**			

NOTES:
1. ND = Not detected above lab reporting limits shown in parenthesis.
2. NT = Not tested.

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	SIDEWALL AND BOTTOM SAMPLING LOCATIONS											
	42-1-3HHHJJJ West Sidewall	42-1-3KKK West Sidewall	42-1-3LLL North Sidewall	42-1-3VVV North Sidewall	42-1-3-4ABC Bottom	42-1-3-4DEF Bottom	42-1-3-4GHI Bottom	42-1-1AAA Bottom	42-1-3-4F South Sidewall	42-1-3-4F Bottom	42-1-2AAABBB Bottom	42-1-3-4JK Bottom
Sampling Date	1/26/2017	1/26/2017	1/26/2017	1/27/2017	1/30/2017	1/30/2017	1/30/2017	1/30/2017	2/3/2017	2/3/2017	2/3/2017	2/3/2017
Original Depth / Sample Depth	8-12 feet	8-12 feet	8-12 feet	8-12 feet	15 feet	15 feet	15 feet	13 feet	8-15 feet	15 feet	14 feet	14 feet
SM 2540G (% Wt)												
% Solids	91.4	89.1	82.6	88.7	88.7	83.8	85.2	82.7	90.2	92.4	90.7	89.3
SW-846 8082A (mg/Kg dry)												
PCB 1016	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)
PCB 1221	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)
PCB 1232	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)
PCB 1242	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)
PCB 1248	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)
PCB 1254	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)
PCB 1260	0.0603	0.121	0.700	0.0973	ND (0.022)	0.0338	0.0733	ND (0.024)	0.0359	0.0430	0.156	0.032
PCB 1262	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)
PCB 1268	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.022)	ND (0.022)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)
TOTAL PCBs	0.060	0.12	0.70	0.097	none detected	0.034	0.073	none detected	0.036	0.043	0.16	0.032
Key Observations					natural soils	natural soils	natural soils	natural soils				
Comment												

NOTES:
1. ND = Not detected above lab reporting limits shown in parenthesis.
2. NT = Not tested.

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	SIDEWALL AND BOTTOM SAMPLING LOCATION											
	42-1-3-4LM Bottom	**42-1-1-3BCD Bottom**	**42-1-1-3EF Bottom**	**42-1-1BGH North Sidewall**	**42-1-3GGHH North Sidewall**	**42-1-3AG North Sidewall**	**42-1-3HHH South Sidewall**	**42-1-3AA South Sidewall**	**42-1-3MMNN South Sidewall**	**42-1-2CC South Sidewall**	**42-1-2BB East Sidewall**	**42-1-2CCDD East Sidewall**
Sampling Date	2/3/2017	2/6/2017	2/6/2017	2/7/2017	2/7/2017	2/7/2017	2/7/2017	2/7/2017	2/7/2017	2/7/2017	2/7/2017	2/7/2017
Original Depth / Sample Depth	15 feet	13 feet	13 feet	0-6 feet	4-8 feet	0-6 feet	8-12 feet	6-10 feet	8-12 feet	7-10 feet	8-11 feet	8-10 feet
SM 2540G (% Wt)												
% Solids	84.9	89.8	92.8	80.9	88.8	88.5	90.3	91.7	89.9	96.8	94.3	93.5
SW-846 8082A (mg/Kg dry)												
PCB 1016	ND (0.023)	ND (0.022)	ND (0.021)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.103)	ND (0.021)
PCB 1221	ND (0.023)	ND (0.022)	ND (0.021)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.103)	ND (0.021)
PCB 1232	ND (0.023)	ND (0.022)	ND (0.021)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.103)	ND (0.021)
PCB 1242	ND (0.023)	ND (0.022)	ND (0.021)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.103)	ND (0.021)
PCB 1248	0.131	ND (0.022)	0.456	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.103)	ND (0.021)
PCB 1254	ND (0.023)	ND (0.022)	0.166	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.103)	ND (0.021)
PCB 1260	0.024	ND (0.022)	ND (0.043)	ND (0.024)	ND (0.022)	0.0450	0.384	0.327	0.190	0.0733	0.0455	**1.92**
PCB 1262	ND (0.023)	ND (0.022)	ND (0.043)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.021)	ND (0.021)
PCB 1268	ND (0.023)	ND (0.022)	ND (0.043)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.021)	ND (0.022)	ND (0.021)	ND (0.021)	ND (0.021)
TOTAL PCBs	0.16	none detected	0.62	none detected	none detected	0.045	0.38	0.33	0.19	0.073	0.046	**1.92**
Key Observations												
Comment												**Additional excavation and confirmatory sidewall sampling was conducted. Natural soils encountered as digging to the east.**
NOTES:												
1. ND = Not detected above												
lab reporting limits shown												
in parenthesis.												
2. NT = Not tested.												

Table 1.1
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: PCBs

Parameter	SIDEWALL AND BOTTOM SAMPLING LOCATION								
	42-1-2AAA South Sidewall	42-1-2AAA East Sidewall	42-1-2BBB East Sidewall	42-1-3GG West Sidewall	42-1-3BBDDEE West Sidewall	42-1-2DDEE (0-6') East Sidewall	42-1-2DDEE (6-10') East Sidewall	42-1-1EEE North Sidewall (9-13')	42-1-1FFF North Sidewall (9-13')
Sampling Date	2/8/2017	2/8/2017	2/8/2017	2/8/2017	2/8/2017	2/15/2017	2/15/2017	2/21/2017	2/21/2017
Original Depth / Sample Depth	12-14 feet	12-14 feet	12-14 feet	4-8 feet	6-10 feet	0-6 feet	6-10 feet	9-13 feet	9-13 feet
SM 2540G (% Wt)									
% Solids	80.5	93.0	93.0	92.6	91.8	86.1	80.2	85.1	78.9
SW-846 8082A (mg/Kg dry)									
PCB 1016	ND (0.025)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)
PCB 1221	ND (0.025)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)
PCB 1232	ND (0.025)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)
PCB 1242	ND (0.025)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)
PCB 1248	ND (0.025)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)
PCB 1254	ND (0.025)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)
PCB 1260	0.0760	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	0.382	0.260	ND (0.023)	ND (0.024)
PCB 1262	ND (0.025)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)
PCB 1268	ND (0.025)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.021)	ND (0.023)	ND (0.024)	ND (0.023)	ND (0.024)
TOTAL PCBs	0.076	none detected	none detected	none detected	none detected	0.38	0.26	none detected	none detected
Key Observations									
Comment									
NOTES:									
1. ND = Not detected above									
lab reporting limits shown									
in parenthesis.									
2. NT = Not tested.									

Table 1.2
Summary of Soil Analytical Data for Stockpiles and Sidewall / Bottom Samples at Lot 42 EP1A: EPH and PAHs

Parameter		Sample Location				
		42-1-3 North Wall 2	**41-1-3GG North Wall**	**41-1-3GG North Wall**	**42-1-3FF Bottom**	**42-1-3FF Bottom**
Sample Date	Background	12/9/2016	12/13/2016	12/13/2016	12/13/2016	12/13/2016
Original Depth/Sample Depth	Fill	4-8 Feet	4-6 feet	4-6 feet	8-9 feet	8-9 feet
Analytical Method		MADEP EPH 5/2004 R	MADEP EPH 5/2004 R	SW846 8270D	MADEP EPH 5/2004 R	SW846 8270D
unit, milligrams per kilogram (mg/kg)						
C9-C18 Aliphatic Hydrocarbons		<10.7	<11.4		<11.3	
C19-C36 Aliphatic Hydrocarbons		11.0	39.4		33.3	
C11-C22 Aromatic Hydrocarbons		121	248		166	
Unadjusted C11-C22 Aromatic Hydrocarbons		177	341		222	
Naphthalene	1	0.820	1.08	3.11	0.748	0.977
2-Methylnaphthalene	1	0.402	0.595	1.26	<0.377	0.423
Acenaphthylene	1	0.365	0.727	2.09	0.676	0.513
Acenaphthene	2	1.01	1.22	1.02	0.528	0.867
Fluorene	2	1.89	3.12	4.23	1.69	1.36
Phenanthrene	20	9.33	15.1	15.3	8.78	9.44
Anthracene	4	2.02	3.71	4.23	1.98	2.58
Fluoranthene	10	9.49	16.4	12.7	9.79	9.58
Pyrene	20	7.46	13	10.8	7.48	9.13
Benzo (a) anthracene	9	4.27	7.56	5.69	4.59	4.89
Chrysene	7	3.64	6.05	5.36	3.62	4.5
Benzo (b) fluoranthene	8	2.69	5.28	5.25	4.39	5.47
Benzo (k) fluoranthene	4	3.27	4.88	2.28	3.13	2.01
Benzo (a) pyrene	7	4.17	6.86	4.62	4.12	4.42
Indeno (1,2,3-cd) pyrene	3	1.88	3.16	2.38	2.02	2.04
Dibenzo (a,h) anthracene	1	0.580	1.09	<0.767	0.761	0.55
Benzo (g,h,i) perylene	3	1.99	3.32	2.26	2.06	1.89
% Solids		88.9	86.2		87.8	
COMMENT		Dark soils with slightly elevated PID (up to 7 ppmv), slight organic smell, marine clay, organic soils	Dark soils with slightly elevated PID (up to 7 ppmv), slight organic smell, marine clay, organic soils		Dark soils with slightly elevated PID (up to 7 ppmv), slight organic smell, marine clay, organic soils	

Table 2.1
Summary of Confirmatory Soil Analytical Data:
Lead (Lot 37 EP1)

Parameter	SAMPLING LOCATION															
	37-1-1 N	**37-1-1NA**	**37-1-1NB**	**37-1-1 WA**	**37-1-1WB**	**37-1-1WC**	**37-1-1WD***	**37-1-1B**	**37-1-1BA***	**37-1-2 N**	**37-1-2NA**	**37-1-2NB**	**37-1-2NC***	**37-1-3 B***	**37-1-3 E***	**37-1-3 N***
Sampling Date	8/31/2015	9/9/2015	9/11/2015	9/1/2015	9/9/2015	9/11/2015	9/28/2015	9/9/2015	9/28/2015	9/1/2015	9/9/2015	9/11/2015	9/28/2015	9/1/2015	9/1/2015	9/1/2015
Sample Depth	0-4 Feet	0-4 Feet	0-4 Feet	0-4 Feet	0-4 Feet	0-4 Feet	0-4 Feet	4 Feet	8 Feet	0-4 Feet	0-4 Feet	0-4 Feet	0-4 Feet	10 Feet	0-10 Feet	0-10 Feet
Sidewall or Bottom Sample							West Wall		Bottom				North Wall	Bottom	East Wall	North Wall
SM 2540G (% Wt)																
% Solids	95.0	87.3	96.7	93.4	95.9	95.9	95.6	93.3	93.1	94.9	95.7	96.4	97.0	91.8	91.7	84.5
SW-846 6010C (mg/Kg dry) Metals Digestion																
LEAD	**900**	**910**	580	**990**	**860**	**830**	480	**2400**	260	**900**	**660**	**1200**	560	93	29	590
SW-846 6010C (mg/L) 1311 TCLP Extraction																
LEAD	***11***	***7.0***	NT	***9.8***	1.1 **	***17***	NT	***12***	NT	***9.7***	4.3 **	***55***	NT	NT	NT	NT

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. **Bold** values exceed the Site-Specific Clean Up Standard of 600 mg/kg lead.
4. ***Bold Italic*** values exceed the TCLP Criterion of 5 mg/l for lead.
5. * = Final Confirmatory Soil Sample

** Another sample likely would exceed TCLP criterion; therefore, treatment is warranted.

Table 2.1
Summary of Confirmatory Soil Analytical Data:
Lead (Lot 37 EP1)

Parameter	SAMPLING LOCATION															
	37-1-3 W	**37-1-4 E**	**37-1-4EA***	**37-1-4 S**	**37-1-4SA***	**37-1-5**	**37-1-5S**	**37-1-5SA***	**37-1-5SB***	**37-1-6S***	**37-1-7**	**37-1-7E***	**37-1-7S***	**37-1-8B***	**37-1-8N***	**37-1-8S***
Sampling Date	9/1/2015	9/1/2015	9/8/2015	9/1/2015	9/8/2015	9/2/2015	9/9/2015	9/11/2015	9/11/2015	9/2/2015	9/1/2015	9/9/2015	9/9/2015	9/3/2015	9/3/2015	9/3/2015
Sample Depth	4-10 Feet	0-8 Feet	0-8 Feet	0-8 Feet	0-8 Feet	0-8 Feet	0-8 Feet	0-8 Feet	8 Feet	0-11 Feet	0-4 Feet	0-4 Feet	0-4 Feet	4 Feet	0-4 Feet	0-4 Feet
Sidewall or Bottom Sample			East Wall		South Wall			South Wall	Bottom	South Wall		West Wall	South Wall	Bottom	North Wall	South Wall
SM 2540G (% Wt)																
% Solids	93.2	86.8	94.9	91.6	90.2	91.7	94.5	92.4	91.6	88.0	95.3	94.8	96.2	88.5	89.9	90.6
SW-846 6010C (mg/Kg dry) Metals Digestion																
LEAD	320	**4400**	390	**1700**	170	**7700**	290	250	560	530	**1100**	240	440	12	43	28
SW-846 6010C (mg/L) 1311 TCLP Extraction																
LEAD	NT	***23***	NT	***17***	NT	***56***	NT	NT	NT	NT	4.7 **	NT	NT	NT	NT	NT

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. **Bold** values exceed the Site-Specific Clean Up Standard of 600 mg/kg lead.
4. ***Bold Italic*** values exceed the TCLP Criterion of 5 mg/l for lead.
5. * = Final Confirmatory Soil Sample

Table 2.2
Summary of Total Lead and TCLP Lead: Post Treatment (Soil Solutions Inc.)
Lot 37
Pacella Park Drive
Randolph, MA

Lot	Soil Pile	Area (cu. yds.)	Post-treatment Sample Date	Total Lead (mg/kg)	TCLP Lead (mg/l)
37	37A1	140	9/29/2015	1300	0.31
	37A2	110	9/29/2015	1100	0.35
	37A3	140	9/29/2015	1200	0.57
	37A4-A	500	9/29/2015	730	0.066
	37A4-B		9/29/2015	1000	0.19
	Lab Blank			<0.76	0.018
	TOTAL	**890**			

Notes: 1. Total and TCLP Lead analysis via EPA Method 6010C.
2. TCLP lead extraction via EPA Method 1311.

Table 3.1
Summary of Confirmatory Soil Analytical Data:
Lead (Lot 42 EP2B)

Parameter	SAMPLING LOCATION									
	42-2-1B*	**42-2-2**	**42-2-2 0-6***	**42-2-2 6-15***	**42-2-2B**	**42-2-3**	**42-2-3 0-6***	**42-2-3 6-15**	**42-2-3A***	**42-2-4**
Sampling Date	9/17/2015	9/18/2015	9/28/2015	9/28/2015	11/10/2015	9/21/2015	10/1/2015	10/1/2015	10/6/2015	9/21/2015
Sample Depth	22 Feet	0-22 Feet	0-6 Feet	6-15 Feet	15 Feet	0-17 Feet	0-6 Feet	6-15 Feet	6-9 Feet	0-22 Feet
Sidewall or Bottom Sample	Bottom		Southwest Wall	Southwest Wall			South Wall		South Wall	
SM 2540G (% Wt)										
% Solids	77.8	87.9	91.7	89.4	85.2	88.3	87.8	85.6	83.8	86.9
SW-846 6010C (mg/Kg dry) Metals Digestion										
LEAD	260	**1300**	410	440	**720**	**1300**	270	**2100**	110	**2700**
SW-846 6010C (mg/L) 1311 TCLP Extraction										
LEAD	NT	***68***	NT	NT	4.1	***180***	NT	***36***	NT	***21***

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. **Bold** values exceed the Site-Specific Clean Up Standard of 600 mg/kg lead.
4. ***Bold Italic*** values exceed the TCLP Criterion of 5 mg/l for lead.
5. * = Final Confirmatory Soil Sample
6. ** = Sample collected outside area of to ensure lead concentrations did not up standards, so construction activities continue and excavation could occur in these areas

Table 3.1
Summary of Confirmatory Soil Analytical Data:
Lead (Lot 42 EP2B)

Parameter	SAMPLING LOCATION									
	42-2-4 0-6*	**42-2-4 6-15**	**42-2-4A 6-9**	**42-2-4B 6-15**	**42-2-4C1**	**42-2-4C2***	**42-2-4D2***	**42-2-41***	**42-2-5**	**42-2-5 0-6***
Sampling Date	10/1/2015	10/1/2015	10/6/2015	10/9/2015	10/19/2015	10/19/2015	10/22/2015	11/10/2015	9/15/2015	9/28/2015
Sample Depth	0-6 Feet	6-15 Feet	6-9 Feet	6-15 Feet	6-15 Feet	6-15 Feet	6-15 Feet	0-15 Feet	0-22 Feet	0-6 Feet
Sidewall or Bottom Sample	East Wall					East Wall	South Wall	Northeast Wall		Northeast Wall
SM 2540G (% Wt)										
% Solids	84.2	86.5	84.3	85.3	89.4	89.3	87.4	90.3	87.9	90.9
SW-846 6010C (mg/Kg dry) Metals Digestion										
LEAD	330	**1600**	**6200**	**1300**	**680**	360	440	270	**6400**	250
SW-846 6010C (mg/L) 1311 TCLP Extraction										
LEAD	NT	***33***	***100***	0.95	0.53	0.45	NT	NT	3.5[1]	NT

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. **Bold** values exceed the Site-Specific Clean Up Standard of 600 mg/kg lead.
4. ***Bold Italic*** values exceed the TCLP Criterion of 5 mg/l for lead.
5. * = Final Confirmatory Soil Sample
6. ** = Sample collected outside area of to ensure lead concentrations did not up standards, so construction activities continue and excavation could occur in these areas

[1] Another sample likely would exceed TCLP criterion; therefore, soils were

Table 3.1
Summary of Confirmatory Soil Analytical Data:
Lead (Lot 42 EP2B)

Parameter	SAMPLING LOCATION								
	42-2-5 6-15*	**42-2-51**	**42-2-52**	**42-2-6**	**42-2-6 0-6***	**42-2-6 6-15**	**42-2-6A**	**42-2-6B 6-15**	**42-2-6C 6-15**
Sampling Date	9/28/2015	11/10/2015	5/19/2016	9/17/2015	9/28/2015	9/28/2015	10/6/2015	10/9/2015	10/19/2015
Sample Depth	6-15 Feet	0-15 Feet	0-15 Feet	0-22 Feet	0-6 Feet	6-15 Feet	6-9 Feet	6-15 Feet	6-15 Feet
Sidewall or Bottom Sample	Northeast Wall				Northwest Wall				
SM 2540G (% Wt)									
% Solids	89.5	86.3	84.2	85.6	90.8	89.0	85.7	86.9	91.7
SW-846 6010C (mg/Kg dry) Metals Digestion									
LEAD	570	**1100**	480	**980**	450	**4800**	**2100**	**3800**	**1900**
SW-846 6010C (mg/L) 1311 TCLP Extraction									
LEAD	NT	1.9	***8.4***	***5.1***	NT	***33***	***14***	***81***	***9.7***

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. **Bold** values exceed the Site-Specific Clean Up Standard of 600 mg/kg lead.
4. ***Bold Italic*** values exceed the TCLP Criterion of 5 mg/l for lead.
5. * = Final Confirmatory Soil Sample
6. ** = Sample collected outside area of to ensure lead concentrations did not up standards, so construction activities continue and excavation could occur in these areas

Table 3.1
Summary of Confirmatory Soil Analytical Data:
Lead (Lot 42 EP2B)

Parameter	SAMPLING LOCATION									
	42-2-6D1*	**42-2-6D2***	**42-2-7A***	**42-2-7B**	**42-2-7C***	**42-2-7BA***	**42-2-7-BA**	**42-2-7BB**	**42-2-7-BC***	**42-2-EP****
Sampling Date	10/22/2015	10/22/2015	9/14/2015	9/14/2015	9/14/2015	9/25/2015	11/10/2015	5/19/2016	11/10/2015	4/8/2016
Sample Depth	6-15 Feet	6-15 Feet	0-15 Feet	0-15 Feet	0-15 Feet	0-15 Feet	0-15 Feet	15 Feet	0-15 Feet	0-6 Feet
Sidewall or Bottom Sample	West Wall	Southwest Wall	North Wall		North Wall	North Wall		Bottom	North Wall	East Wall
SM 2540G (% Wt)										
% Solids	89.0	89.7	94.0	89.1	91.2	94.8	87.9	89.0	94.5	89.6
SW-846 6010C (mg/Kg dry) Metals Digestion										
LEAD	300	290	510	**3100**	270	210	**1800**	**850**	440	440
SW-846 6010C (mg/L) 1311 TCLP Extraction										
LEAD	NT	NT	NT	***12***	NT	NT	1.2	***13.0***	NT	0.38

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. **Bold** values exceed the Site-Specific Clean Up Standard of 600 mg/kg lead.
4. ***Bold Italic*** values exceed the TCLP Criterion of 5 mg/l for lead.
5. * = Final Confirmatory Soil Sample
6. ** = Sample collected outside area of to ensure lead concentrations did not up standards, so construction activities continue and excavation could occur in these areas

Table 3.1
Summary of Confirmatory Soil Analytical Data:
Lead (Lot 42 EP2B)

Parameter	SAMPLING LOCATION							
	42-2-WP-B1**	**42-2-WP-B2**	**42-2-WP-SW1****	**42-2-EP-B1***	**42-2-EP-B2***	**42-2-EP-SW1***	**42-2-WP-B3****	**42-2-WP-B4***
Sampling Date	4/13/2016	4/13/2016	4/13/2016	4/14/2016	4/14/2016	4/14/2016	4/18/2016	4/18/2016
Sample Depth	10 Feet	12 Feet	0-10 Feet	15 Feet	20 Feet	0-10 Feet	15 Feet	15 Feet
Sidewall or Bottom Sample	Bottom		Southwest Sidewall	Bottom	Bottom	Northeast Sidewall	Bottom	West Wall
SM 2540G (% Wt) % Solids	87.2	81.9	86.9	88.3	87.3	88.2	91.0	95.1
SW-846 6010C (mg/Kg dry) Metals Digestion LEAD	410	**5600**	290	140	280	390	240	210
SW-846 6010C (mg/L) 1311 TCLP Extraction LEAD	NT	0.16	NT	NT	NT	NT	NT	NT

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. **Bold** values exceed the Site-Specific Clean Up Standard of 600 mg/kg lead.
4. ***Bold Italic*** values exceed the TCLP Criterion of 5 mg/l for lead.
5. * = Final Confirmatory Soil Sample
6. ** = Sample collected outside area of to ensure lead concentrations did not up standards, so construction activities continue and excavation could occur in these areas

Table 3.1
Summary of Confirmatory Soil Analytical Data:
Lead (Lot 42 EP2B)

Parameter	SAMPLING LOCATION								
	42-2-WP-SW2	**42-2-2B2**	**42-2-2B2***	**42-2-6 SW1***	**42-2-6B1**	**42-2-7BA2***	**42-2-6B1***	**42-2-WP-B2***	**42-2-5B**
Sampling Date	4/18/2016	5/20/2016	6/9/2016	5/20/2016	5/23/2016	6/3/2016	6/4/2016	6/3/2016	6/6/2016
Sample Depth	10-12 Feet	18 Feet	18 Feet	0-15 Feet	16 Feet	0-15 Feet	18 Feet	12 Feet	15 Feet
Sidewall or Bottom Sample			Bottom	Northwest Wall		North Wall	Bottom	Bottom	
SM 2540G (% Wt)									
% Solids	93.0	90.6	86.4	88.4	88.0	93.9	91.3	94	90.5
SW-846 6010C (mg/Kg dry) Metals Digestion									
LEAD	**1200**	**750**	300	290	**740**	**410**	540	300	**700**
SW-846 6010C (mg/L) 1311 TCLP Extraction									
LEAD	1.8	***5.2***	NT	0.79	4.4	0.44	1.4	0.41	3.0

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. **Bold** values exceed the Site-Specific Clean Up Standard of 600 mg/kg lead.
4. ***Bold Italic*** values exceed the TCLP Criterion of 5 mg/l for lead.
5. * = Final Confirmatory Soil Sample
6. ** = Sample collected outside area of to ensure lead concentrations did not up standards, so construction activities continue and excavation could occur in these areas

Table 3.1
Summary of Confirmatory Soil Analytical Data:
Lead (Lot 42 EP2B)

Parameter	SAMPLING LOCATION								
	42-2-5B2*	**42-2-6B2**	**42-2-7BA3***	**42-2-WP-B5***	**42-2-5-3***	**42-2-7BB2**	**42-2-7BB3***	**42-2-6B3**	**42-2-6B4***
Sampling Date	6/8/2016	6/8/2016	6/8/2016	6/8/2016	6/9/2016	6/9/2016	6/13/2016	6/14/2016	6/21/2016
Sample Depth	20 Feet	20 Feet	0-15 Feet	15 Feet	0-15 Feet	18 Feet	21 Feet	21 Feet	22 Feet
Sidewall or Bottom Sample	Bottom		North Wall	Bottom	East Wall		Bottom		Bottom
SM 2540G (% Wt)									
% Solids	85.4	85.6	86.8	89.8	87.8	88.1	87.8	84.8	87.8
SW-846 6010C (mg/Kg dry) Metals Digestion									
LEAD	43	**710**	560	530	330	**1100**	270	**630**	68
SW-846 6010C (mg/L) 1311 TCLP Extraction									
LEAD	NT	1.9	NT	NT	NT	4.7	NT	3.5	NT

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. **Bold** values exceed the Site-Specific Clean Up Standard of 600 mg/kg lead.
4. ***Bold Italic*** values exceed the TCLP Criterion of 5 mg/l for lead.
5. * = Final Confirmatory Soil Sample
6. ** = Sample collected outside area of to ensure lead concentrations did not up standards, so construction activities continue and excavation could occur in these areas

Table 3.2
Summary of Soil Analytical Data:
Coal Tar (Lot 42 EP2B)

Parameter	Site-Specific Clean-up Standards	Soil Upper Concentration Limit	SAMPLING LOCATION: LOT 42 EP 2B						
			42-2-3W-B	**42-2-3W-E**	**42-2-3W-W**	**42-2-3W-CT**	**42-2-3W-CT2**	**42-2-3W-S**	**42-2-3W-S2**
Sampling Date			10/2/2015	10/2/2015	10/2/2015	10/22/2015	10/23/2015	10/22/2015	10/23/2015
Sample Depth			15 Feet	13-15 Feet	13-15 Feet	Partial Sorted Coal Tar Stockpile	Sorted Coal Tar Stockpile	Partial Sorted Soil Stockpile	Sorted Soil Stockpile
MADEP-EPH-04-1.1 (mg/Kg dry)									
C9-C18 ALIPHATICS		20000	ND (12)	12	ND (12)	480	450	37	30
C19-C36 ALIPHATICS		20000	ND (12)	23	24	260	180	29	29
UNADJUSTED C11-C22 AROMATICS		~	350	710	110	31000	41000	1800	1300
C11-C22 AROMATICS	3000	10000	200	440	82	**15000**	**21000**	1000	680
ACENAPHTHENE		10000	0.94	2.1	0.27	150	180	6.8	5.0
ACENAPHTHYLENE		10000	3.4	6.1	0.12	720	890	22	15
ANTHRACENE		10000	7.7	12	0.75	790	1200	44	26
BENZO(A)ANTHRACENE	9	3000	**9.3**	**18**	2.3	**490**	**680**	**39**	**26**
BENZO(A)PYRENE	2	300	**6.6**	**13**	**2.5**	**310**	**310**	**25**	**19**
BENZO(B)FLUORANTHENE	9	3000	**9.3**	**18**	3.1	**440**	**510**	**35**	**26**
BENZO(G,H,I)PERYLENE		10000	2.9	6.3	1.5	100	89	10	8.0
BENZO(K)FLUORANTHENE	9	10000	3.5	6.8	1.1	**150**	**140**	**13**	9.0
CHRYSENE	9	10000	**9.3**	**17**	2.7	**410**	**630**	**36**	**26**
DIBENZ(A,H)ANTHRACENE	2	300	1.2	**2.2**	0.41	**39**	**40**	**3.6**	1.5
FLUORANTHENE		10000	28	49	5.2	1700	2200	130	86
FLUORENE		10000	7.6	13	0.34	1100	1600	51	30
INDENO(1,2,3-CD)PYRENE	9	3000	3.6	7.0	1.5	**130**	**100**	**12**	**9.4**
2-METHYLNAPHTHALENE	300	5000	1.8	5.1	ND (0.12)	**990**	**1300**	23	14
NAPHTHALENE	300	10000	2.9	12	0.18	**3800**	**4900**	54	27
PHENANTHRENE	300	10000	30	48	3.1	**2900**	**3800**	160	100
PYRENE		10000	21	36	5.4	1100	1400	100	7.4
SM 2540G (% Wt)									
% Solids		~	81.2	85.4	84.9	87.8	93.1	89.2	89.8

NOTES:
ND = Not detected above the lab reporting limits shown in parenthesis.
NT = Not tested.
Bold Blue = Exceeds Upper Concentration Limt
Bold = Exceeds Site-specific clean-up standard

Table 3.2
Summary of Soil Analytical Data:
Coal Tar (Lot 42 EP2B)

Parameter	Site-Specific Clean-up Standards	Soil Upper Concentration Limit	SAMPLING LOCATION: LOT 42 EP 3A						
			42-3-B	42-3-E	42-3-N	42-3-W	42-3-S	42-3-2	42-3-SP
Sampling Date			10/5/2015	10/5/2015	10/5/2015	10/5/2015	10/5/2015	10/5/2015	10/5/2015
Sample Depth			4 Feet	0-4 Feet	0-4 Feet	0-4 Feet	0-3 Feet	8 Feet	Stockpile
MADEP-EPH-04-1.1 (mg/Kg dry)									
C9-C18 ALIPHATICS		20000	13	ND (11)	ND (11)	ND (11)	12	15	12
C19-C36 ALIPHATICS		20000	47	75	39	46	36	110	52
UNADJUSTED C11-C22 AROMATICS		~	330	200	260	400	240	210	220
C11-C22 AROMATICS	3000	10000	210	150	180	260	160	160	160
ACENAPHTHENE		10000	0.67	0.57	0.66	1.1	0.71	0.69	0.54
ACENAPHTHYLENE		10000	1.9	0.35	0.87	2.2	0.42	ND (0.22)	0.55
ANTHRACENE		10000	4.5	1.7	2.6	5.7	2.5	1.8	2.1
BENZO(A)ANTHRACENE	9	3000	**9.2**	3.9	6.7	**10**	5.6	3.9	5.0
BENZO(A)PYRENE	2	300	**8.1**	**3.7**	**6.0**	**9.5**	**5.9**	**3.7**	**4.9**
BENZO(B)FLUORANTHENE	9	3000	**10**	4.6	7.9	**12**	7.0	5.2	6.4
BENZO(G,H,I)PERYLENE		10000	3.4	2.0	2.9	5.0	2.7	2.0	2.4
BENZO(K)FLUORANTHENE	9	10000	4.0	1.7	3.0	4.4	2.4	1.8	2.1
CHRYSENE	9	10000	8.7	4.3	6.7	**11**	5.9	4.5	5.2
DIBENZ(A,H)ANTHRACENE	2	300	1.3	0.62	1.0	1.7	0.84	0.63	0.78
FLUORANTHENE		10000	21	9.2	16	25	13	9.2	11
FLUORENE		10000	2.6	0.82	1.2	3.6	1.0	0.87	0.85
INDENO(1,2,3-CD)PYRENE	9	3000	4.1	2.4	3.4	5.3	3.3	2.4	2.7
2-METHYLNAPHTHALENE	300	5000	0.39	0.22	0.28	0.84	0.25	0.26	0.22
NAPHTHALENE	300	10000	1.0	0.37	0.51	2.2	0.47	0.41	0.42
PHENANTHRENE	300	10000	14	6.8	9.4	18	8.6	7.0	6.7
PYRENE		10000	18	8.7	14	21	12	8.8	10
SM 2540G (% Wt)									
% Solids		~	95.3	92.6	92.1	92.3	88.4	90.3	90.5

NOTES:
ND = Not detected above the lab reporting limits shown in parenthesis.
NT = Not tested.
Bold Blue = Exceeds Upper Concentration Limt
Bold = Exceeds Site-specific clean-up standard

Table 3.3
Summary of Total Lead and TCLP Lead: Post Treatment (Soil Solutions Inc.)
Lot 42
Pacella Park Drive
Randolph, MA

Lot	Soil Pile	Area (cu. yds.)	Post-treatment Sample Date	Total Lead (mg/kg)	TCLP Lead (mg/l)
42	L42-4A1	600	10/1/2015	1200	0.050
	L42-4A2		10/1/2015	1700	1.8
	L42-1A	170	10/1/2015	1500	0.63
	L42-1B	190	10/1/2015	5000	0.057
	Lab Blank			2.1	<0.010
	TOTAL	**960**			
42	L42-3A	400	10/5/2015	1400	0.12
	L42-3B		10/5/2015	3700	0.11
	L42-2A	220	10/5/2015	910	0.095
	L42-2B	280	10/5/2015	1000	0.093
	Lab Blank			2.1	<0.010
	TOTAL	**900**			
42	A52-5-01	450	10/15/2015	No Data	0.32
	A52-5-02		10/15/2015	No Data	0.60
	Lab Blank			No Data	<0.010
	TOTAL	**450**			
42	PPD-01	110	11/18/2015	No Data	0.15
	PPD-02		11/18/2015	No Data	0.11
	Lab Blank			No Data	<0.010
	TOTAL	**110**			

Notes: 1. Total and TCLP Lead analysis via EPA Method 6010C.
2. TCLP lead extraction via EPA Method 1311.

Table 3.4
Summary of Total Lead and TCLP Lead: Post Treatment (US Ecology and GEC)
Lot 42
Pacella Park Drive
Randolph, MA

Lot	Soil Pile	Area (cu. yds.)	Post-treatment Sample Date	Total Lead (mg/kg)	TCLP Lead (mg/l)
42	42-2-SP257*	176	6/15/2016	820	ND (0.010)
	42-2-SP7B	235	6/20/2016	570	0.021
	42-2-SP6BS-treated	70**	7/19/2016	1900	9.0
	42-2-SP-6BS (treated 91 hours)		7/22/2016	1400	ND (0.010)
	TOTAL	**481**			

Notes: 1. Total and TCLP Lead analysis via EPA Method 6010C.
2. TCLP lead extraction via EPA Method 1311.
3. NT = Not tested
4. * = Stockpiles 1 and 3 were combined and were approximately 176 CY in total volume
5. ** 42-2-SP6BS-treated was resampled because the stockpile was sampled less than 24 hours after treatment. 42-2-SP-6BS (treated 91 hours) was sampled 91 hours after treatment

Table 4.1
Summary of Soil Analytical Data for Lot 42 EP3C

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION							
	S-1/GW-1	S-1/GW-2	S-1/GW-3	42-4-2A SP1	42-4-2A SP2	42-4-2A SP3	42-4-2B	42-4-2S	42-4-2W	42-4-6S	42-4-7S**
Sampling Date				3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016	3/31/2016	4/8/2016	4/19/2016
Sample Depth				Stockpile***	Stockpile***	Stockpile***	15 Feet*	15 Feet*	15 Feet	11 Feet	15 Feet
SM 2540G (% Wt)											
% Solids				80.6	84.8	84.8	83.5	82.6	85.3	83.9	90.2
SW-846 8270D (mg/Kg dry)											
ACENAPHTHENE	4	1000	1000	0.78	0.37	ND (0.20)	0.71	1.2	ND (0.20)	ND (0.20)	ND (0.19)
ACENAPHTHYLENE	1	600	10	0.94	0.31	ND (0.20)	0.63	0.58	ND (0.20)	ND (0.20)	ND (0.19)
ANTHRACENE	1000	1000	1000	4.2	1.7	0.83	3.6	6.1	0.56	0.20	ND (0.19)
BENZO(A)ANTHRACENE	7	7	7	13	5.5	2.6	10	19	1.6	0.44	ND (0.19)
BENZO(A)PYRENE	2	2	2	9.7	4.4	2.2	8.1	14	1.2	0.37	ND (0.19)
BENZO(B)FLUORANTHENE	7	7	7	13	5.6	2.7	11	19	1.5	0.44	ND (0.19)
BENZO(G,H,I)PERYLENE	1000	1000	1000	4.8	2.0	0.96	3.0	5.6	0.58	ND (0.20)	ND (0.19)
BENZO(K)FLUORANTHENE	70	70	70	4.7	2.0	0.99	4.1	6.7	0.58	ND (0.20)	ND (0.19)
CHRYSENE	70	70	70	11	4.6	2.4	8.7	16	1.3	0.44	ND (0.19)
DIBENZ(A,H)ANTHRACENE	0.7	0.7	0.7	1.4	0.56	0.29	0.88	1.7	ND (0.20)	ND (0.20)	ND (0.19)
FLUORANTHENE	1000	1000	1000	31	13	5.9	19	42	3.8	0.97	0.24
FLUORENE	1000	1000	1000	1.7	0.86	0.41	1.7	2.3	0.29	ND (0.20)	ND (0.19)
INDENO(1,2,3-CD)PYRENE	7	7	7	4.4	2.3	1.1	3.4	6.1	0.64	ND (0.20)	ND (0.19)
2-METHYLNAPHTHALENE	0.7	80	300	0.82	0.29	ND (0.20)	0.95	0.37	ND (0.20)	ND (0.20)	ND (0.19)
NAPHTHALENE	4	20	500	1.2	0.55	0.25	2.0	0.64	ND (0.20)	ND (0.20)	ND (0.19)
PHENANTHRENE	10	500	500	21	9.1	4.4	18	28	2.7	0.97	ND (0.19)
PYRENE	1000	1000	1000	29	12	5.4	25	44	3.1	0.84	0.22
SW-846 8270D (mg/Kg dry)											
ACENAPHTHENE											
ACENAPHTHYLENE											
ACETOPHENONE											
ANILINE											
ANTHRACENE											
BENZO(A)ANTHRACENE											
BENZO(A)PYRENE											
BENZO(B)FLUORANTHENE											
BENZO(G,H,I)PERYLENE											
BENZO(K)FLUORANTHENE											
BIS(2-CHLOROETHOXY)METHANE											
BIS(2-CHLOROETHYL)ETHER											
BIS(2-CHLOROISOPROPYL)ETHER											
BIS(2-ETHYLHEXYL)PHTHALATE											
4-BROMOPHENYL PHENYL ETHER											
BUTYLBENZYLPHTHALATE											
4-CHLOROANILINE											
2-CHLORONAPHTHALENE											
2-CHLOROPHENOL											
CHRYSENE											
DIBENZ(A,H)ANTHRACENE											
DIBENZOFURAN											
DI-N-BUTYLPHTHALATE											
1,2-DICHLOROBENZENE											

Table 4.1
Summary of Soil Analytical Data for Lot 42 EP3C

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION							
	S-1/GW-1	S-1/GW-2	S-1/GW-3	42-4-2A SP1	42-4-2A SP2	42-4-2A SP3	42-4-2B	42-4-2S	42-4-2W	42-4-6S	42-4-7S**
1,3-DICHLOROBENZENE											
1,4-DICHLOROBENZENE											
3,3'-DICHLOROBENZIDINE											
2,4-DICHLOROPHENOL											
DIETHYLPHTHALATE											
2,4-DIMETHYLPHENOL											
DIMETHYLPHTHALATE											
2,4-DINITROPHENOL											
2,4-DINITROTOLUENE											
2,6-DINITROTOLUENE											
DI-N-OCTYLPHTHALATE											
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)											
FLUORANTHENE											
FLUORENE											
HEXACHLOROBENZENE											
HEXACHLOROBUTADIENE											
HEXACHLOROETHANE											
INDENO(1,2,3-CD)PYRENE											
ISOPHORONE											
2-METHYLNAPHTHALENE											
O-CRESOL											
M/P-CRESOL											
NAPHTHALENE											
NITROBENZENE											
2-NITROPHENOL											
4-NITROPHENOL											
PENTACHLOROPHENOL											
PHENANTHRENE											
PHENOL											
PYRENE											
1,2,4-TRICHLOROBENZENE											
2,4,5-TRICHLOROPHENOL											
2,4,6-TRICHLOROPHENOL											
SM21-22 2510B Modified (µmhos/cm)											
SPECIFIC CONDUCTANCE											
SW-846 1030 (present/absent)											
IGNITABILITY											
SW-846 6010C-D (mg/Kg dry) Metals Digestion											
ANTIMONY											
ARSENIC											
BARIUM											
BERYLLIUM											
CADMIUM											
CHROMIUM											
LEAD											
NICKEL											
SELENIUM											

Table 4.1
Summary of Soil Analytical Data for Lot 42 EP3C

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION							
	S-1/GW-1	S-1/GW-2	S-1/GW-3	42-4-2A SP1	42-4-2A SP2	42-4-2A SP3	42-4-2B	42-4-2S	42-4-2W	42-4-6S	42-4-7S**
SILVER											
THALLIUM											
VANADIUM											
ZINC											
SW-846 6010C-D (mg/L) 1311 TCLP EXT											
LEAD											
SW-846 7471B (mg/Kg dry) Metals Digestion											
MERCURY											
SW-846 8081B (mg/Kg dry)											
ALDRIN											
ALPHA-BHC											
BETA-BHC											
DELTA-BHC											
GAMMA-BHC (LINDANE)											
CHLORDANE											
4,4'-DDD											
4,4'-DDE											
4,4'-DDT											
DIELDRIN											
ENDOSULFAN I											
ENDOSULFAN II											
ENDOSULFAN SULFATE											
ENDRIN											
ENDRIN KETONE											
HEPTACHLOR											
HEPTACHLOR EPOXIDE											
HEXACHLOROBENZENE											
METHOXYCHLOR											
SW-846 8082A (mg/Kg dry)											
PCB 1016											
PCB 1221											
PCB 1232											
PCB 1242											
PCB 1248											
PCB 1254											
PCB 1260											
PCB 1262											
PCB 1268											
SW-846 8100 Modified (mg/Kg dry)											
TPH											
SW-846 8151A (µg/kg dry)											
2,4-D											
2,4-DB											
2,4,5-TP (SILVEX)											
2,4,5-T											
DALAPON											
DICAMBA											

Table 4.1
Summary of Soil Analytical Data for Lot 42 EP3C

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION							
	S-1/GW-1	S-1/GW-2	S-1/GW-3	42-4-2A SP1	42-4-2A SP2	42-4-2A SP3	42-4-2B	42-4-2S	42-4-2W	42-4-6S	42-4-7S**
DICHLOROPROP											
DINOSEB											
MCPA											
MCPP											
SW-846 8260C (mg/Kg dry)											
ACETONE											
TERT-AMYLMETHYL ETHER											
BENZENE											
BROMOBENZENE											
BROMOCHLOROMETHANE											
BROMODICHLOROMETHANE											
BROMOFORM											
BROMOMETHANE											
2-BUTANONE (MEK)											
N-BUTYLBENZENE											
SEC-BUTYLBENZENE											
TERT-BUTYLBENZENE											
TERT-BUTYLETHYL ETHER											
CARBON DISULFIDE											
CARBON TETRACHLORIDE											
CHLOROBENZENE											
CHLORODIBROMOMETHANE											
CHLOROETHANE											
CHLOROFORM											
CHLOROMETHANE											
2-CHLOROTOLUENE											
4-CHLOROTOLUENE											
1,2-DIBROMO-3-CHLOROPROPANE											
1,2-DIBROMOETHANE (EDB)											
DIBROMOMETHANE											
1,2-DICHLOROBENZENE											
1,3-DICHLOROBENZENE											
1,4-DICHLOROBENZENE											
DICHLORODIFLUOROMETHANE											
1,1-DICHLOROETHANE											
1,2-DICHLOROETHANE											
1,1-DICHLOROETHYLENE											
CIS-1,2-DICHLOROETHYLENE											
TRANS-1,2-DICHLOROETHYLENE											
1,2-DICHLOROPROPANE											
1,3-DICHLOROPROPANE											
2,2-DICHLOROPROPANE											
1,1-DICHLOROPROPENE											
CIS-1,3-DICHLOROPROPENE											
TRANS-1,3-DICHLOROPROPENE											
DIETHYL ETHER											
DIISOPROPYL ETHER											

Table 4.1
Summary of Soil Analytical Data for Lot 42 EP3C

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION							
	S-1/GW-1	S-1/GW-2	S-1/GW-3	42-4-2A SP1	42-4-2A SP2	42-4-2A SP3	42-4-2B	42-4-2S	42-4-2W	42-4-6S	42-4-7S**
1,4-DIOXANE											
ETHYLBENZENE											
HEXACHLOROBUTADIENE											
2-HEXANONE											
ISOPROPYLBENZENE											
P-ISOPROPYLTOLUENE											
METHYL TERT-BUTYL ETHER (MTBE)											
METHYLENE CHLORIDE											
4-METHYL-2-PENTANONE (MIBK)											
NAPHTHALENE											
N-PROPYLBENZENE											
STYRENE											
1,1,1,2-TETRACHLOROETHANE											
1,1,2,2-TETRACHLOROETHANE											
TETRACHLOROETHYLENE											
TETRAHYDROFURAN											
TOLUENE											
1,2,3-TRICHLOROBENZENE											
1,2,4-TRICHLOROBENZENE											
1,1,1-TRICHLOROETHANE											
1,1,2-TRICHLOROETHANE											
TRICHLOROETHYLENE											
TRICHLOROFLUOROMETHANE											
1,2,3-TRICHLOROPROPANE											
1,2,4-TRIMETHYLBENZENE											
1,3,5-TRIMETHYLBENZENE											
VINYL CHLORIDE											
M/P-XYLENE											
O-XYLENE											
SW-846 9014 (mg/Kg)											
REACTIVE CYANIDE											
SW-846 9030A (mg/Kg)											
REACTIVE SULFIDE											
SW-846 9045C (pH Units)											
PH											
NOTES:											
1. ND = Not detected above the lab reporting limits shown in parenthesis.											
* These soils were excavated and are no longer representative of this location.											
** Located outside portion of Lot 42 EP3C impacted by PAHs. Not representative.											
*** Stockpiles were removed from this location and are not representative.											

Table 4.1
Summary of Soil Analytical Data for Lot 42 EP3C

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION						
	S-1/GW-1	S-1/GW-2	S-1/GW-3	42-4-1E	42-4-1-5-B	42-4-1-5-S	42-4-1-5-SP	42-4-5W	42-4-7W	42-4-2B2
Sampling Date				5/11/2016	5/11/2016	5/11/2016	5/11/2016	5/11/2016	5/17/2016	6/8/2016
Sample Depth				11 Feet	11 Feet	11 Feet	Stockpile***	11 Feet	15 Feet	- Feet
SM 2540G (% Wt)										
% Solids				91.2	83.2	91.5	88.9	89.9	95.4	85.3
SW-846 8270D (mg/Kg dry)										
ACENAPHTHENE	4	1000	1000	ND (0.19)	ND (0.20)	0.20	0.23	0.54	ND (0.18)	
ACENAPHTHYLENE	1	600	10	0.22	ND (0.20)	0.38	0.31	0.35	ND (0.18)	
ANTHRACENE	1000	1000	1000	0.66	0.35	0.93	0.96	1.9	ND (0.18)	
BENZO(A)ANTHRACENE	7	7	7	1.6	1.1	3.6	2.3	3.9	0.36	
BENZO(A)PYRENE	2	2	2	1.4	0.87	3.3	2.0	3.3	0.47	
BENZO(B)FLUORANTHENE	7	7	7	1.7	1.2	4.1	2.6	3.9	0.55	
BENZO(G,H,I)PERYLENE	1000	1000	1000	0.60	0.43	1.7	0.96	1.4	0.46	
BENZO(K)FLUORANTHENE	70	70	70	0.69	0.46	1.7	0.94	1.4	0.21	
CHRYSENE	70	70	70	1.5	0.96	3.4	2.1	3.6	0.38	
DIBENZ(A,H)ANTHRACENE	0.7	0.7	0.7	ND (0.19)	ND (0.20)	0.49	0.26	0.37	ND (0.18)	
FLUORANTHENE	1000	1000	1000	3.9	2.5	6.9	5.7	7.4	0.74	
FLUORENE	1000	1000	1000	0.39	ND (0.20)	0.30	0.55	0.81	ND (0.18)	
INDENO(1,2,3-CD)PYRENE	7	7	7	0.69	0.50	2.0	1.1	1.8	0.43	
2-METHYLNAPHTHALENE	0.7	80	300	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.19)	0.19	ND (0.18)	
NAPHTHALENE	4	20	500	0.30	ND (0.20)	ND (0.19)	0.31	0.32	ND (0.18)	
PHENANTHRENE	10	500	500	2.5	1.3	4.1	4.0	6.8	0.61	
PYRENE	1000	1000	1000	2.7	1.8	6.8	4.3	6.8	0.96	
SW-846 8270D (mg/Kg dry)										
ACENAPHTHENE							0.33			0.52
ACENAPHTHYLENE							0.77			0.90
ACETOPHENONE							ND (0.37)			ND (0.40)
ANILINE							ND (0.37)			ND (0.40)
ANTHRACENE							1.8			2.3
BENZO(A)ANTHRACENE							5.0			6.1
BENZO(A)PYRENE							3.9			5.1
BENZO(B)FLUORANTHENE							4.8			6.5
BENZO(G,H,I)PERYLENE							2.4			2.9
BENZO(K)FLUORANTHENE							2.0			2.9
BIS(2-CHLOROETHOXY)METHANE							ND (0.37)			ND (0.40)
BIS(2-CHLOROETHYL)ETHER							ND (0.37)			ND (0.40)
BIS(2-CHLOROISOPROPYL)ETHER							ND (0.37)			ND (0.40)
BIS(2-ETHYLHEXYL)PHTHALATE							ND (0.37)			ND (0.40)
4-BROMOPHENYL PHENYL ETHER							ND (0.37)			ND (0.40)
BUTYLBENZYLPHTHALATE							ND (0.37)			ND (0.40)
4-CHLOROANILINE							ND (0.72)			ND (0.77)
2-CHLORONAPHTHALENE							ND (0.37)			ND (0.40)
2-CHLOROPHENOL							ND (0.37)			ND (0.40)
CHRYSENE							4.5			5.8
DIBENZ(A,H)ANTHRACENE							0.29			0.90
DIBENZOFURAN							0.84			0.97
DI-N-BUTYLPHTHALATE							ND (0.37)			ND (0.40)
1,2-DICHLOROBENZENE							ND (0.37)			ND (0.40)

Table 4.1
Summary of Soil Analytical Data for Lot 42 EP3C

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION						
	S-1/GW-1	S-1/GW-2	S-1/GW-3	42-4-1E	42-4-1-5-B	42-4-1-5-S	42-4-1-5-SP	42-4-5W	42-4-7W	42-4-2B2
1,3-DICHLOROBENZENE							ND (0.37)			ND (0.40)
1,4-DICHLOROBENZENE							ND (0.37)			ND (0.40)
3,3'-DICHLOROBENZIDINE							ND (0.19)			ND (0.20)
2,4-DICHLOROPHENOL							ND (0.37)			ND (0.40)
DIETHYLPHTHALATE							ND (0.37)			ND (0.40)
2,4-DIMETHYLPHENOL							ND (0.37)			ND (0.40)
DIMETHYLPHTHALATE							ND (0.37)			ND (0.40)
2,4-DINITROPHENOL							ND (0.72)			ND (0.77)
2,4-DINITROTOLUENE							ND (0.37)			ND (0.40)
2,6-DINITROTOLUENE							ND (0.37)			ND (0.40)
DI-N-OCTYLPHTHALATE							ND (0.37)			ND (0.40)
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)							ND (0.37)			ND (0.40)
FLUORANTHENE							12			16
FLUORENE							1.1			1.3
HEXACHLOROBENZENE							ND (0.37)			ND (0.40)
HEXACHLOROBUTADIENE							ND (0.37)			ND (0.40)
HEXACHLOROETHANE							ND (0.37)			ND (0.40)
INDENO(1,2,3-CD)PYRENE							2.5			3.3
ISOPHORONE							ND (0.37)			ND (0.40)
2-METHYLNAPHTHALENE							0.44			0.54
O-CRESOL							ND (0.37)			ND (0.40)
M/P-CRESOL							ND (0.37)			ND (0.40)
NAPHTHALENE							0.83			1.1
NITROBENZENE							ND (0.37)			ND (0.40)
2-NITROPHENOL							ND (0.37)			ND (0.40)
4-NITROPHENOL							ND (0.72)			ND (0.77)
PENTACHLOROPHENOL							ND (0.37)			ND (0.40)
PHENANTHRENE							9.4			11
PHENOL							ND (0.37)			ND (0.40)
PYRENE							8.6			11
1,2,4-TRICHLOROBENZENE							ND (0.37)			ND (0.40)
2,4,5-TRICHLOROPHENOL							ND (0.37)			ND (0.40)
2,4,6-TRICHLOROPHENOL							ND (0.37)			ND (0.40)
SM21-22 2510B Modified (µmhos/cm)										
SPECIFIC CONDUCTANCE							21			
SW-846 1030 (present/absent)										
IGNITABILITY							0.0			
SW-846 6010C-D (mg/Kg dry) Metals Digestion										
ANTIMONY							ND (2.6)			
ARSENIC							3.7			
BARIUM							73			
BERYLLIUM							0.47			
CADMIUM							0.84			
CHROMIUM							11			
LEAD							230			
NICKEL							15			
SELENIUM							ND (5.2)			

Table 4.1
Summary of Soil Analytical Data for Lot 42 EP3C

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION						
	S-1/GW-1	S-1/GW-2	S-1/GW-3	42-4-1E	42-4-1-5-B	42-4-1-5-S	42-4-1-5-SP	42-4-5W	42-4-7W	42-4-2B2
SILVER							ND (0.52)			
THALLIUM							ND (2.6)			
VANADIUM							34			
ZINC							97			
SW-846 6010C-D (mg/L) 1311 TCLP EXT										
LEAD							0.059			
SW-846 7471B (mg/Kg dry) Metals Digestion										
MERCURY							0.11			
SW-846 8081B (mg/Kg dry)										
ALDRIN							ND (0.026)			
ALPHA-BHC							ND (0.026)			
BETA-BHC							ND (0.026)			
DELTA-BHC							ND (0.026)			
GAMMA-BHC (LINDANE)							ND (0.011)			
CHLORDANE							ND (0.11)			
4,4'-DDD							ND (0.021)			
4,4'-DDE							ND (0.021)			
4,4'-DDT							0.12			
DIELDRIN							ND (0.021)			
ENDOSULFAN I							ND (0.026)			
ENDOSULFAN II							ND (0.042)			
ENDOSULFAN SULFATE							ND (0.042)			
ENDRIN							ND (0.042)			
ENDRIN KETONE							ND (0.042)			
HEPTACHLOR							ND (0.026)			
HEPTACHLOR EPOXIDE							ND (0.026)			
HEXACHLOROBENZENE							ND (0.032)			
METHOXYCHLOR							ND (0.26)			
SW-846 8082A (mg/Kg dry)										
PCB 1016							ND (0.11)			
PCB 1221							ND (0.11)			
PCB 1232							ND (0.11)			
PCB 1242							ND (0.11)			
PCB 1248							0.21			
PCB 1254							0.24			
PCB 1260							ND (0.11)			
PCB 1262							ND (0.11)			
PCB 1268							ND (0.11)			
SW-846 8100 Modified (mg/Kg dry)										
TPH							480			
SW-846 8151A (µg/kg dry)										
2,4-D							ND (28)			
2,4-DB							ND (28)			
2,4,5-TP (SILVEX)							ND (2.8)			
2,4,5-T							ND (2.8)			
DALAPON							ND (69)			
DICAMBA							ND (2.8)			

Table 4.1
Summary of Soil Analytical Data for Lot 42 EP3C

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION						
	S-1/GW-1	S-1/GW-2	S-1/GW-3	42-4-1E	42-4-1-5-B	42-4-1-5-S	42-4-1-5-SP	42-4-5W	42-4-7W	42-4-2B2
DICHLOROPROP							ND (28)			
DINOSEB							ND (14)			
MCPA							ND (2800)			
MCPP							ND (2800)			
SW-846 8260C (mg/Kg dry)										
ACETONE							ND (0.085)			
TERT-AMYLMETHYL ETHER							ND (0.00085)			
BENZENE							ND (0.0017)			
BROMOBENZENE							ND (0.0017)			
BROMOCHLOROMETHANE							ND (0.0017)			
BROMODICHLOROMETHANE							ND (0.0017)			
BROMOFORM							ND (0.0085)			
BROMOMETHANE							ND (0.0085)			
2-BUTANONE (MEK)							ND (0.034)			
N-BUTYLBENZENE							ND (0.0017)			
SEC-BUTYLBENZENE							ND (0.0017)			
TERT-BUTYLBENZENE							ND (0.0017)			
TERT-BUTYLETHYL ETHER							ND (0.00085)			
CARBON DISULFIDE							ND (0.0051)			
CARBON TETRACHLORIDE							ND (0.0017)			
CHLOROBENZENE							ND (0.0017)			
CHLORODIBROMOMETHANE							ND (0.00085)			
CHLOROETHANE							ND (0.0085)			
CHLOROFORM							ND (0.0034)			
CHLOROMETHANE							ND (0.0085)			
2-CHLOROTOLUENE							ND (0.0017)			
4-CHLOROTOLUENE							ND (0.0017)			
1,2-DIBROMO-3-CHLOROPROPANE							ND (0.0085)			
1,2-DIBROMOETHANE (EDB)							ND (0.00085)			
DIBROMOMETHANE							ND (0.0017)			
1,2-DICHLOROBENZENE							ND (0.0017)			
1,3-DICHLOROBENZENE							ND (0.0017)			
1,4-DICHLOROBENZENE							ND (0.0017)			
DICHLORODIFLUOROMETHANE							ND (0.0085)			
1,1-DICHLOROETHANE							ND (0.0017)			
1,2-DICHLOROETHANE							ND (0.0017)			
1,1-DICHLOROETHYLENE							ND (0.0034)			
CIS-1,2-DICHLOROETHYLENE							ND (0.0017)			
TRANS-1,2-DICHLOROETHYLENE							ND (0.0017)			
1,2-DICHLOROPROPANE							ND (0.0017)			
1,3-DICHLOROPROPANE							ND (0.00085)			
2,2-DICHLOROPROPANE							ND (0.0017)			
1,1-DICHLOROPROPENE							ND (0.0017)			
CIS-1,3-DICHLOROPROPENE							ND (0.00085)			
TRANS-1,3-DICHLOROPROPENE							ND (0.00085)			
DIETHYL ETHER							ND (0.0085)			
DIISOPROPYL ETHER							ND (0.00085)			

Table 4.1
Summary of Soil Analytical Data for Lot 42 EP3C

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION						
	S-1/GW-1	S-1/GW-2	S-1/GW-3	42-4-1E	42-4-1-5-B	42-4-1-5-S	42-4-1-5-SP	42-4-5W	42-4-7W	42-4-2B2
1,4-DIOXANE							ND (0.085)			
ETHYLBENZENE							ND (0.0017)			
HEXACHLOROBUTADIENE							ND (0.0017)			
2-HEXANONE							ND (0.017)			
ISOPROPYLBENZENE							ND (0.0017)			
P-ISOPROPYLTOLUENE							ND (0.0017)			
METHYL TERT-BUTYL ETHER (MTBE)							ND (0.0034)			
METHYLENE CHLORIDE							ND (0.0085)			
4-METHYL-2-PENTANONE (MIBK)							ND (0.017)			
NAPHTHALENE							ND (0.0085)			
N-PROPYLBENZENE							ND (0.0017)			
STYRENE							ND (0.0017)			
1,1,1,2-TETRACHLOROETHANE							ND (0.0017)			
1,1,2,2-TETRACHLOROETHANE							ND (0.00085)			
TETRACHLOROETHYLENE							ND (0.0017)			
TETRAHYDROFURAN							ND (0.0085)			
TOLUENE							ND (0.0017)			
1,2,3-TRICHLOROBENZENE							ND (0.0034)			
1,2,4-TRICHLOROBENZENE							ND (0.0034)			
1,1,1-TRICHLOROETHANE							ND (0.0017)			
1,1,2-TRICHLOROETHANE							ND (0.0017)			
TRICHLOROETHYLENE							ND (0.0017)			
TRICHLOROFLUOROMETHANE							ND (0.0085)			
1,2,3-TRICHLOROPROPANE							ND (0.0017)			
1,2,4-TRIMETHYLBENZENE							ND (0.0017)			
1,3,5-TRIMETHYLBENZENE							ND (0.0017)			
VINYL CHLORIDE							ND (0.0085)			
M/P-XYLENE							ND (0.0034)			
O-XYLENE							ND (0.0017)			
SW-846 9014 (mg/Kg)										
REACTIVE CYANIDE							ND (3.9)			
SW-846 9030A (mg/Kg)										
REACTIVE SULFIDE							ND (19)			
SW-846 9045C (pH Units)										
PH							7.8			
NOTES:										
1. ND = Not detected above the lab reporting limits shown in parenthesis.										
* These soils were excavated and are no longer representative of this location.										
** Located outside portion of Lot 42 EP3C impacted by PAHs. Not representative.										
*** Stockpiles were removed from this location and are not representative.										

Table 4.2
Evaluation of Soil Analytical Data for Lot 42 EP3C

Parameter	MCP - Method 1 Cleanup Standards			MCP - Method 2 Direct Contact	Background Concentrations		Sampling Locations						
	S-1/GW-1	S-1/GW-2	S-1/GW-3	Standard	Natural	Fill*	42-4-2W	42-4-6S	42-4-1E	42-4-1-5-B	42-4-1-5-S	42-4-5W	42-4-7W
Sampling Date							3/31/2016	4/8/2016	5/11/2016	5/11/2016	5/11/2016	5/11/2016	5/17/2016
Sample Depth							15 Feet	11 Feet	11 Feet	11 Feet	11 Feet	11 Feet	15 Feet
SM 2540G (% Wt)													
% Solids							85.3	83.9	91.2	83.2	91.5	89.9	95.4
SW-846 8270D (mg/Kg dry)													
ACENAPHTHENE	4	1000	1000	1000	0.5	2	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.20)	0.2	0.54	ND (0.18)
ACENAPHTHYLENE	1	600	10	600	0.5	1	ND (0.20)	ND (0.20)	0.22	ND (0.20)	0.38	0.35	ND (0.18)
ANTHRACENE	1000	1000	1000	1000	1	4	0.56	0.2	0.66	0.35	0.93	1.9	ND (0.18)
BENZO(A)ANTHRACENE	7	7	7	7	2	9	1.6	0.44	1.6	1.1	3.6	3.9	0.36
BENZO(A)PYRENE	2	2	2	2	2	7	1.2	0.37	1.4	0.87	3.3	3.3	0.47
BENZO(B)FLUORANTHENE	7	7	7	7	2	8	1.5	0.44	1.7	1.2	4.1	3.9	0.55
BENZO(G,H,I)PERYLENE	1000	1000	1000	1000	1	3	0.58	ND (0.20)	0.6	0.43	1.7	1.4	0.46
BENZO(K)FLUORANTHENE	70	70	70	70	1	4	0.58	ND (0.20)	0.69	0.46	1.7	1.4	0.21
CHRYSENE	70	70	70	70	2	7	1.3	0.44	1.5	0.96	3.4	3.6	0.38
DIBENZ(A,H)ANTHRACENE	0.7	0.7	0.7	0.7	0.5	1	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.20)	0.49	0.37	ND (0.18)
FLUORANTHENE	1000	1000	1000	1000	4	10	3.8	0.97	3.9	2.5	6.9	7.4	0.74
FLUORENE	1000	1000	1000	1000	1	2	0.29	ND (0.20)	0.39	ND (0.20)	0.3	0.81	ND (0.18)
INDENO(1,2,3-CD)PYRENE	7	7	7	7	1	3	0.64	ND (0.20)	0.69	0.5	2	1.8	0.43
2-METHYLNAPHTHALENE	0.7	80	300	300	0.5	1	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.20)	ND (0.19)	0.19	ND (0.18)
NAPHTHALENE	4	20	500	500	0.5	1	ND (0.20)	ND (0.20)	0.3	ND (0.20)	ND (0.19)	0.32	ND (0.18)
PHENANTHRENE	10	500	500	500	3	20	2.7	0.97	2.5	1.3	4.1	6.8	0.61
PYRENE	1000	1000	1000	1000	4	20	3.1	0.84	2.7	1.8	6.8	6.8	0.96

NOTES:

1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. Bolded values exceed the Method 1 Cleanup Standards.

* MassDEP's published background concentrations for soils associated with fill containing coal ash or wood ash.

** COC = contaminant of concern

3. All detected levels are less than MassDEP's published background concentrations for soils associated with fill containing coal ash or wood ash. However, retained as a soil COC because polycyclic aromatic hydrocarbons (PAHs) are soil COCs for nearly the entire disposal site.

Table 4.2
Evaluation of Soil Analytical Data for Lot 42 EP3C

Parameter	MCP - Method 1 Cleanup Standards			MCP - Method 2 Direct Contact	Background Concentrations		Summary Statistics			Identification of Soil Contaminants of Concern		
	S-1/GW-1	S-1/GW-2	S-1/GW-3	Standard	Natural	Fill*	Number Analyzed	Number Detected	Maximum Concentration	Does Max. Conc. Exceed Background for Fill*?	Soil COC**	Comment
Sampling Date												
Sample Depth												
SM 2540G (% Wt)												
% Solids												
SW-846 8270D (mg/Kg dry)												
ACENAPHTHENE	4	1000	1000	1000	0.5	2	7	2	0.54	No	Yes	3
ACENAPHTHYLENE	1	600	10	600	0.5	1	7	3	0.38	No	Yes	3
ANTHRACENE	1000	1000	1000	1000	1	4	7	6	1.9	No	Yes	3
BENZO(A)ANTHRACENE	7	7	7	7	2	9	7	7	3.9	No	Yes	3
BENZO(A)PYRENE	2	2	2	2	2	7	7	7	3.3	No	Yes	3
BENZO(B)FLUORANTHENE	7	7	7	7	2	8	7	7	4.1	No	Yes	3
BENZO(G,H,I)PERYLENE	1000	1000	1000	1000	1	3	7	6	1.7	No	Yes	3
BENZO(K)FLUORANTHENE	70	70	70	70	1	4	7	6	1.7	No	Yes	3
CHRYSENE	70	70	70	70	2	7	7	7	3.6	No	Yes	3
DIBENZ(A,H)ANTHRACENE	0.7	0.7	0.7	0.7	0.5	1	7	2	0.49	No	Yes	3
FLUORANTHENE	1000	1000	1000	1000	4	10	7	7	7.4	No	Yes	3
FLUORENE	1000	1000	1000	1000	1	2	7	4	0.81	No	Yes	3
INDENO(1,2,3-CD)PYRENE	7	7	7	7	1	3	7	6	2.0	No	Yes	3
2-METHYLNAPHTHALENE	0.7	80	300	300	0.5	1	7	1	0.19	No	Yes	3
NAPHTHALENE	4	20	500	500	0.5	1	7	2	0.32	No	Yes	3
PHENANTHRENE	10	500	500	500	3	20	7	7	6.8	No	Yes	3
PYRENE	1000	1000	1000	1000	4	20	7	7	6.8	No	Yes	3

NOTES:

1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. Bolded values exceed the Method 1 Cleanup Standards.

* MassDEP's published background concentrations for soils associated with fill containing coal ash or wood ash.

** COC = contaminant of concern

3. All detected levels are less than MassDEP's published background concentrations for soils associated with fill containing coal ash or wood ash. However, retained as a soil COC because polycyclic aromatic hydrocarbons (PAHs) are soil COCs for nearly the entire disposal site.

Table 4.2
Evaluation of Soil Analytical Data for Lot 42 EP3C

Parameter	MCP - Method 1 Cleanup Standards			MCP - Method 2 Direct Contact	Background Concentrations		Identification of Method to Derive Exposure Point Concentration				
	S-1/GW-1	S-1/GW-2	S-1/GW-3	Standard	Natural	Fill*	No. Detected	% Detected	Does Max.	Method to	Comment
Sampling Date							above	above	Conc. Exceed	Derive	
Sample Depth							Method 2 S-1	Method 2 S-1	10X Method 2	Exposure	
SM 2540G (% Wt)							Direct Contact	Direct Contact	S-1 Direct	Point	
% Solids							Standard	Standard	Contact Standard?	Concentration	
SW-846 8270D (mg/Kg dry)											
ACENAPHTHENE	4	1000	1000	1000	0.5	2	0	0	No	Mean	
ACENAPHTHYLENE	1	600	10	600	0.5	1	0	0	No	Mean	
ANTHRACENE	1000	1000	1000	1000	1	4	0	0	No	Mean	
BENZO(A)ANTHRACENE	7	7	7	7	2	9	0	0	No	Mean	
BENZO(A)PYRENE	2	2	2	2	2	7	2	29	No	95th% UCL on Mean	4
BENZO(B)FLUORANTHENE	7	7	7	7	2	8	0	0	No	Mean	
BENZO(G,H,I)PERYLENE	1000	1000	1000	1000	1	3	0	0	No	Mean	
BENZO(K)FLUORANTHENE	70	70	70	70	1	4	0	0	No	Mean	
CHRYSENE	70	70	70	70	2	7	0	0	No	Mean	
DIBENZ(A,H)ANTHRACENE	0.7	0.7	0.7	0.7	0.5	1	0	0	No	Mean	
FLUORANTHENE	1000	1000	1000	1000	4	10	0	0	No	Mean	
FLUORENE	1000	1000	1000	1000	1	2	0	0	No	Mean	
INDENO(1,2,3-CD)PYRENE	7	7	7	7	1	3	0	0	No	Mean	
2-METHYLNAPHTHALENE	0.7	80	300	300	0.5	1	0	0	No	Mean	
NAPHTHALENE	4	20	500	500	0.5	1	0	0	No	Mean	
PHENANTHRENE	10	500	500	500	3	20	0	0	No	Mean	
PYRENE	1000	1000	1000	1000	4	20	0	0	No	Mean	

NOTES:

1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. Bolded values exceed the Method 1 Cleanup Standards.

* MassDEP's published background concentrations for soils associated with fill containing coal ash or wood ash.

** COC = contaminant of concern

3. All detected levels are less than MassDEP's published background concentrations for soils associated with fill containing coal ash or wood ash. However, retained as a soil COC because polycyclic aromatic hydrocarbons (PAHs) are soil COCs for nearly the entire disposal site.

4. Per MCP, exposure point concentration is a conservative estimate of the mean. Because more than 25% of the samples contained levels of benzo(a)pyrene that exceeded the Method 2 S-1 Direct Contact Standard, the 95th percentile upper confidence limit on the mean was selected as a conservative estimate of the mean concentration and the eposure point concentration.

Table 4.3
Derivation of Soil Exposure Point Concentrations for Lot 42 EP3C

Parameter	Sampling Locations							Derivation of Soil Exposure Point Concentrations					
	42-4-2W	42-4-6S	42-4-1E	42-4-1-5-B	42-4-1-5-S	42-4-5W	42-4-7W	Number Analyzed	Mean Concentration	Standard Deviation of Population	Confidence Interval	95th Percentile Upper Confidence Limit on the Mean	Exposure Point Concentration
Sampling Date	3/31/2016	4/8/2016	5/11/2016	5/11/2016	5/11/2016	5/11/2016	5/17/2016						
Sample Depth	15 Feet	11 Feet	11 Feet	11 Feet	11 Feet	11 Feet	15 Feet						
SM 2540G (% Wt)													
% Solids	85.3	83.9	91.2	83.2	91.5	89.9	95.4						
SW-846 8270D (mg/Kg dry)													
ACENAPHTHENE	0.1	0.1	0.095	0.1	0.2	0.54	0.09	7	0.18				0.18
ACENAPHTHYLENE	0.1	0.1	0.22	0.1	0.38	0.35	0.09	7	0.19				0.19
ANTHRACENE	0.56	0.2	0.66	0.35	0.93	1.9	0.09	7	0.67				0.67
BENZO(A)ANTHRACENE	1.6	0.44	1.6	1.1	3.6	3.9	0.36	7	1.8				1.8
BENZO(A)PYRENE	1.2	0.37	1.4	0.87	3.3	3.3	0.47	7	1.56	1.15	0.85	2.41	2.4
BENZO(B)FLUORANTHENE	1.5	0.44	1.7	1.2	4.1	3.9	0.55	7	1.9				1.9
BENZO(G,H,I)PERYLENE	0.58	0.1	0.6	0.43	1.7	1.4	0.46	7	0.75				0.75
BENZO(K)FLUORANTHENE	0.58	0.1	0.69	0.46	1.7	1.4	0.21	7	0.73				0.73
CHRYSENE	1.3	0.44	1.5	0.96	3.4	3.6	0.38	7	1.7				1.7
DIBENZ(A,H)ANTHRACENE	0.1	0.1	0.095	0.1	0.49	0.37	0.09	7	0.19				0.19
FLUORANTHENE	3.8	0.97	3.9	2.5	6.9	7.4	0.74	7	3.7				3.7
FLUORENE	0.29	0.1	0.39	0.1	0.3	0.81	0.09	7	0.30				0.30
INDENO(1,2,3-CD)PYRENE	0.64	0.1	0.69	0.5	2	1.8	0.43	7	0.88				0.88
2-METHYLNAPHTHALENE	0.1	0.1	0.095	0.1	0.095	0.19	0.09	7	0.11				0.11
NAPHTHALENE	0.1	0.1	0.3	0.1	0.095	0.32	0.09	7	0.16				0.16
PHENANTHRENE	2.7	0.97	2.5	1.3	4.1	6.8	0.61	7	2.7				2.7
PYRENE	3.1	0.84	2.7	1.8	6.8	6.8	0.96	7	3.3				3.3

NOTES:

1. ND = Not detected above the lab reporting limits shown in parenthesis.

Table 5.1
Summary of Soil Analytical Data: RGP-1 (SB-1)

Parameter	SAMPLING LOCATION												
	SB-1	**SB-1-B**	**SB-1-2B**	**SB-1-E**	**SB-1-N**	**SB-1-S**	**SB-1-W**	**RGP-1B**	**RGP-1B**	**SB-1-2E**	**SB-1-2N**	**SB-1-2S**	**SB-1-2W**
Sampling Date	11/4/2015	11/19/2015	12/7/2015	11/19/2015	11/19/2015	11/19/2015	11/19/2015	1/7/2016	1/7/2016	12/7/2015	12/7/2015	12/7/2015	12/7/2015
Sample Depth	Pre-Excavation	Bottom	Bottom	East Sidewall	North Sidewall	South Sidewall	West Sidewall	Bottom	Bottom	East Sidewall	North Sidewall	South Sidewall	West Sidewall
	MADEP's method	MADEP's method	EPA Method 8270D	MADEP's method	MADEP's method	MADEP's method	MADEP's method	MADEP's method	EPA Method 8270D	EPA Method 8270D	EPA Method 8270D	EPA Method 8270D	EPA Method 8270D
C9-C18 ALIPHATICS	110	12	NT	25	13	30	ND (21)	12	NT	NT	NT	NT	NT
C19-C36 ALIPHATICS	700	120	NT	130	110	170	93	51	NT	NT	NT	NT	NT
C11-C22 AROMATICS	750	190	NT	240	170	270	130	70	NT	NT	NT	NT	NT
ACENAPHTHENE	8.8	0.96	3.1	0.84	0.71	0.92	0.51	0.29	ND (0.18)	1.9	1.3	0.74	0.73
ACENAPHTHYLENE	0.79	0.56	2.8	0.36	0.26	0.4	ND (0.21)	ND (0.11)	ND (0.18)	0.4	0.59	0.58	0.97
ANTHRACENE	14	2.1	16	2.1	1.5	2.3	1.2	0.65	0.34	4.1	3.1	1.9	2.1
BENZO(A)ANTHRACENE	13	4.3	21	4.5	3.3	4.4	2.5	1.3	1.0	6.5	6.9	4.5	4.5
BENZO(A)PYRENE	11	5.2	18	5.5	3.8	5	2.7	1.4	1.0	5.4	6.3	4.4	4.4
BENZO(B)FLUORANTHENE	12	5.4	20	6	4.2	5.5	3.1	1.6	1.2	5.9	6.5	4.6	4.5
BENZO(G,H,I)PERYLENE	4.6	3.1	9.5	2.7	2.1	2.5	1.6	0.82	0.56	3.8	4.3	2.9	3.6
BENZO(K)FLUORANTHENE	4.5	1.8	6.9	2.1	1.5	1.9	1.1	0.61	0.37	2.4	2.3	1.7	2.1
CHRYSENE	13	4.5	18	4.7	3.5	4.6	2.6	1.4	0.9	5.7	6.5	4.1	4
DIBENZ(A,H)ANTHRACENE	1.5	0.4	3.2	0.83	0.53	0.77	0.44	0.24	ND (0.18)	1	1.1	0.79	0.96
FLUORANTHENE	29	8.5	42	7.4	6.2	8.5	5.2	2.6	1.9	12	11	7.1	6.3
FLUORENE	8.9	1	4	0.79	0.59	0.97	0.46	0.23	ND (0.18)	1.9	1.4	0.78	ND (0.18)
INDENO(1,2,3-CD)PYRENE	5.7	3.2	10	3.4	2.5	3.2	1.7	0.9	0.56	3.7	4	2.9	3.5
2-METHYLNAPHTHALENE	3.2	0.6	0.85	0.6	0.3	0.53	ND (0.21)	ND (0.11)	ND (0.18)	0.57	0.58	0.6	0.67
NAPHTHALENE	9.1	1.9	3.3	1.8	0.82	1.8	0.36	0.13	ND (0.18)	1.2	1.6	2.3	2.6
PHENANTHRENE	37	6.3	40	5.6	4.5	5.8	4	1.9	1.4	15	11	6.2	5
PYRENE	32	8.9	50	8.4	7.2	8.9	5.4	2.8	2.0	15	17	9.5	8.7

NOTES:
ND (#) = None detected above detection limit given in parenthesis.

Table 5.2
Derivation of Exposure Point Concentrations in Soil: RGP-1 (SB-1)

Parameter	SAMPLING LOCATION												MEAN CONC.
	SB-1-B	***SB-1-2B***	**SB-1-E**	**SB-1-N**	**SB-1-S**	**SB-1-W**	**RGP-1B**	**RGP-1B**	**SB-1-2E**	**SB-1-2N**	**SB-1-2S**	**SB-1-2W**	
Sampling Date	*11/19/2015*	*12/7/2015*	11/19/2015	11/19/2015	11/19/2015	11/19/2015	1/7/2016	1/7/2016	12/7/2015	12/7/2015	12/7/2015	12/7/2015	
Sample Depth	*Bottom*	*Bottom*	East Sidewall	North Sidewall	South Sidewall	West Sidewall	Bottom	Bottom	East Sidewall	North Sidewall	South Sidewall	West Sidewall	
C9-C18 ALIPHATICS	*12*		25	13	30	10.5	12						18
C19-C36 ALIPHATICS	*120*		130	110	170	93	51						111
C11-C22 AROMATICS	*190*		240	170	270	130	70						176
ACENAPHTHENE	*0.96*	*3.1*	*0.84*	*0.71*	*0.92*	*0.51*	0.29	0.09	1.9	1.3	0.74	0.73	0.84
ACENAPHTHYLENE	*0.56*	*2.8*	*0.36*	*0.26*	*0.4*	*0.105*	0.055	0.09	0.4	0.59	0.58	0.97	0.45
ANTHRACENE	*2.1*	*16*	*2.1*	*1.5*	*2.3*	*1.2*	0.65	0.34	4.1	3.1	1.9	2.1	2.0
BENZO(A)ANTHRACENE	*4.3*	*21*	*4.5*	*3.3*	*4.4*	*2.5*	1.3	1.0	6.5	6.9	4.5	4.5	4.1
BENZO(A)PYRENE	*5.2*	*18*	*5.5*	*3.8*	*5*	*2.7*	1.4	1.0	5.4	6.3	4.4	4.4	3.8
BENZO(B)FLUORANTHENE	*5.4*	*20*	*6*	*4.2*	*5.5*	*3.1*	1.6	1.2	5.9	6.5	4.6	4.5	4.1
BENZO(G,H,I)PERYLENE	*3.1*	*9.5*	*2.7*	*2.1*	*2.5*	*1.6*	0.82	0.56	3.8	4.3	2.9	3.6	2.7
BENZO(K)FLUORANTHENE	*1.8*	*6.9*	*2.1*	*1.5*	*1.9*	*1.1*	0.61	0.37	2.4	2.3	1.7	2.1	1.6
CHRYSENE	*4.5*	*18*	*4.7*	*3.5*	*4.6*	*2.6*	1.4	0.9	5.7	6.5	4.1	4	3.8
DIBENZ(A,H)ANTHRACENE	*0.4*	*3.2*	*0.83*	*0.53*	*0.77*	*0.44*	0.24	0.09	1	1.1	0.79	0.96	0.70
FLUORANTHENE	*8.5*	*42*	*7.4*	*6.2*	*8.5*	*5.2*	2.6	1.9	12	11	7.1	6.3	6.8
FLUORENE	*1*	*4*	*0.79*	*0.59*	*0.97*	*0.46*	0.23	0.09	1.9	1.4	0.78	0.09	0.75
INDENO(1,2,3-CD)PYRENE	*3.2*	*10*	*3.4*	*2.5*	*3.2*	*1.7*	0.9	0.56	3.7	4	2.9	3.5	2.6
2-METHYLNAPHTHALENE	*0.6*	*0.85*	*0.6*	*0.3*	*0.53*	*0.105*	0.055	0.09	0.57	0.58	0.6	0.67	0.43
NAPHTHALENE	*1.9*	*3.3*	*1.8*	*0.82*	*1.8*	*0.36*	0.13	0.09	1.2	1.6	2.3	2.6	1.3
PHENANTHRENE	*6.3*	*40*	*5.6*	*4.5*	*5.8*	*4*	1.9	1.4	15	11	6.2	5	6.8
PYRENE	*8.9*	*50*	*8.4*	*7.2*	*8.9*	*5.4*	2.8	2.0	15	17	9.5	8.7	9.2

NOTES:
1. When none detected, one-half detection limit was used as surrogate value for calculating exposure point concentration.
2. Exposure point concentration is the mean concentration for all confirmatory soil samples.
Italics , these soils were excavated and are no longer representative of conditions at this location. This data was not used to calculate exposure point concentrations, except for some extractable petroleum hydrocarbon (EPH) data, where no replacement data exists.

Table 6.1
Summary of Soil Analytical Data: RGP-2 (PL-1)

Parameter	SAMPLING LOCATION: Before Excavation			SAMPLING LOCATION: Post-Excavation Sidewalls and Bottom							
	PL-1	PL-1	PL-1	RGP-2-1B	RGP-2-1B	RGP-2-1E	RGP-2-1E	RGP-2-1S	RGP-2-1S	RGP-2-1W	RGP-2-1W
Sampling Date	11/6/2015	11/6/2015	11/9/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015
Sample Depth	Representative	Representative	Representative	Bottom	Bottom	East Sidewall	East Sidewall	South Sidewall	South Sidewall	West Sidewall	West Sidewall
	MADEP's Method	USEPA 8270D		MADEP's Method	USEPA 8270D	MADEP's Method	USEPA 8270D	MADEP's Method	USEPA 8270D	MADEP's Method	USEPA 8270D
C9-C18 ALIPHATICS	ND (12)			ND (11)		11		ND (11)		23	
C19-C36 ALIPHATICS	44			23		ND (11)		16		100	
C11-C22 AROMATICS	190			25		ND (11)		24		120	
ACENAPHTHENE	1.2	0.395		ND (0.11)	ND (0.19)	ND (0.11)	ND (0.19)	ND (0.11)	ND (0.19)	ND (0.22)	ND (0.19)
ACENAPHTHYLENE	0.27	0.395		ND (0.11)	ND (0.19)	ND (0.11)	ND (0.19)	ND (0.11)	ND (0.19)	ND (0.22)	ND (0.19)
ANTHRACENE	3	1.9		ND (0.11)	ND (0.19)	ND (0.11)	ND (0.19)	0.30	ND (0.19)	ND (0.22)	ND (0.19)
BENZO(A)ANTHRACENE	6.2	5		0.21	0.48	ND (0.11)	ND (0.19)	0.77	0.67	ND (0.22)	ND (0.19)
BENZO(A)PYRENE	7.5	4.3		0.25	0.47	ND (0.11)	ND (0.19)	0.79	0.64	ND (0.22)	0.46
BENZO(B)FLUORANTHENE	8.6	5.5		0.32	0.60	ND (0.11)	ND (0.19)	0.96	0.77	ND (0.22)	0.33
BENZO(G,H,I)PERYLENE	3.2	2.5		0.15	0.28	ND (0.11)	ND (0.19)	0.44	0.35	ND (0.22)	0.27
BENZO(K)FLUORANTHENE	3	2.2		ND (0.11)	0.21	ND (0.11)	ND (0.19)	0.36	0.32	ND (0.22)	ND (0.19)
CHRYSENE	6.6	4.7		0.25	0.46	ND (0.11)	ND (0.19)	0.83	0.64	ND (0.22)	ND (0.19)
DIBENZ(A,H)ANTHRACENE	1	0.395		ND (0.11)	ND (0.19)	ND (0.11)	ND (0.19)	0.13	ND (0.19)	ND (0.22)	ND (0.19)
FLUORANTHENE	16	11		0.49	0.94	ND (0.11)	0.19	1.8	1.3	ND (0.22)	0.32
FLUORENE	1.3	0.82		ND (0.11)	ND (0.19)	ND (0.11)	ND (0.19)	ND (0.11)	ND (0.19)	ND (0.22)	ND (0.19)
INDENO(1,2,3-CD)PYRENE	3.4	2.7		0.17	0.38	ND (0.11)	ND (0.19)	0.54	0.44	ND (0.22)	0.40
2-METHYLNAPHTHALENE	0.4	0.395		ND (0.11)	ND (0.19)	ND (0.11)	ND (0.19)	ND (0.11)	ND (0.19)	ND (0.22)	ND (0.19)
NAPHTHALENE	0.72	0.395		ND (0.11)	ND (0.19)	ND (0.11)	ND (0.19)	ND (0.11)	ND (0.19)	ND (0.22)	ND (0.19)
PHENANTHRENE	12	7.9		0.39	0.56	ND (0.11)	ND (0.19)	1.1	0.79	ND (0.22)	ND (0.19)
PYRENE	15	8.5		0.48	0.85	ND (0.11)	ND (0.19)	1.7	1.2	ND (0.22)	0.29
ANTIMONY	ND (2.9)										
ARSENIC	5.9										
BARIUM	140										
BERYLLIUM	1.4										
CADMIUM	6.8										
CHROMIUM	15										
LEAD	340										
MERCURY	0.70										
NICKEL	32										
SELENIUM	ND (5.8)										
SILVER	ND (0.58)										
THALLIUM	ND (2.9)										
VANADIUM	67										
ZINC	130										
PCB 1016	ND (0.11)										
PCB 1221	ND (0.11)										
PCB 1232	ND (0.11)										
PCB 1242	ND (0.11)										
PCB 1248	ND (0.11)										
PCB 1254	0.16										
PCB 1260	ND (0.11)										
PCB 1262	ND (0.11)										
PCB 1268	ND (0.11)										
TOTAL PCBs	0.16										

Table 6.1
Summary of Soil Analytical Data: RGP-2 (PL-1)

Parameter	SAMPLING LOCATION: Before Excavation			SAMPLING LOCATION: Post-Excavation Sidewalls and Bottom							
	PL-1	PL-1	PL-1	RGP-2-1B	RGP-2-1B	RGP-2-1E	RGP-2-1E	RGP-2-1S	RGP-2-1S	RGP-2-1W	RGP-2-1W
Sampling Date	11/6/2015	11/6/2015	11/9/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015
SW-846 8260C (mg/Kg dry)											
ACETONE			0.63								
TERT-AMYLMETHYL ETHER			ND (0.0012)								
BENZENE			ND (0.0025)								
BROMOBENZENE			ND (0.0025)								
BROMOCHLOROMETHANE			ND (0.0025)								
BROMODICHLOROMETHANE			ND (0.0025)								
BROMOFORM			ND (0.012)								
BROMOMETHANE			ND (0.012)								
2-BUTANONE (MEK)			0.074								
N-BUTYLBENZENE			ND (0.0050)								
SEC-BUTYLBENZENE			ND (0.0025)								
TERT-BUTYLBENZENE			ND (0.0025)								
TERT-BUTYLETHYL ETHER			ND (0.0012)								
CARBON DISULFIDE			ND (0.025)								
CARBON TETRACHLORIDE			ND (0.0050)								
CHLOROBENZENE			ND (0.0025)								
CHLORODIBROMOMETHANE			ND (0.012)								
CHLOROETHANE			ND (0.012)								
CHLOROFORM			ND (0.0050)								
CHLOROMETHANE			ND (0.012)								
2-CHLOROTOLUENE			ND (0.0025)								
4-CHLOROTOLUENE			ND (0.0025)								
1,2-DIBROMO-3-CHLOROPROPANE			ND (0.012)								
1,2-DIBROMOETHANE (EDB)			ND (0.0012)								
DIBROMOMETHANE			ND (0.0025)								
1,2-DICHLOROBENZENE			ND (0.0025)								
1,3-DICHLOROBENZENE			ND (0.0025)								
1,4-DICHLOROBENZENE			ND (0.0025)								
DICHLORODIFLUOROMETHANE			ND (0.012)								
1,1-DICHLOROETHANE			ND (0.0025)								
1,2-DICHLOROETHANE			ND (0.0025)								
1,1-DICHLOROETHYLENE			ND (0.0050)								
CIS-1,2-DICHLOROETHYLENE			ND (0.0025)								
TRANS-1,2-DICHLOROETHYLENE			ND (0.0025)								
1,2-DICHLOROPROPANE			ND (0.0025)								
1,3-DICHLOROPROPANE			ND (0.0012)								
2,2-DICHLOROPROPANE			ND (0.012)								
1,1-DICHLOROPROPENE			ND (0.0050)								
CIS-1,3-DICHLOROPROPENE			ND (0.012)								
TRANS-1,3-DICHLOROPROPENE			ND (0.012)								
DIETHYL ETHER			ND (0.012)								
DIISOPROPYL ETHER			ND (0.0012)								
1,4-DIOXANE			ND (0.12)								
ETHYLBENZENE			ND (0.0025)								
HEXACHLOROBUTADIENE			ND (0.0025)								
2-HEXANONE			ND (0.025)								
ISOPROPYLBENZENE			ND (0.0050)								

Table 6.1
Summary of Soil Analytical Data: RGP-2 (PL-1)

Parameter	SAMPLING LOCATION: Before Excavation			SAMPLING LOCATION: Post-Excavation Sidewalls and Bottom							
	PL-1	PL-1	PL-1	RGP-2-1B	RGP-2-1B	RGP-2-1E	RGP-2-1E	RGP-2-1S	RGP-2-1S	RGP-2-1W	RGP-2-1W
Sampling Date	11/6/2015	11/6/2015	11/9/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015
P-ISOPROPYLTOLUENE			ND (0.0025)								
METHYL TERT-BUTYL ETHER (MTBE)			ND (0.0050)								
METHYLENE CHLORIDE			ND (0.012)								
4-METHYL-2-PENTANONE (MIBK)			ND (0.025)								
NAPHTHALENE			ND (0.012)								
N-PROPYLBENZENE			ND (0.0050)								
STYRENE			ND (0.0025)								
1,1,1,2-TETRACHLOROETHANE			ND (0.012)								
1,1,2,2-TETRACHLOROETHANE			ND (0.0012)								
TETRACHLOROETHYLENE			ND (0.012)								
TETRAHYDROFURAN			ND (0.012)								
TOLUENE			ND (0.0025)								
1,2,3-TRICHLOROBENZENE			ND (0.0050)								
1,2,4-TRICHLOROBENZENE			ND (0.012)								
1,1,1-TRICHLOROETHANE			ND (0.0050)								
1,1,2-TRICHLOROETHANE			ND (0.0025)								
TRICHLOROETHYLENE			ND (0.0025)								
TRICHLOROFLUOROMETHANE			ND (0.012)								
1,2,3-TRICHLOROPROPANE			ND (0.0025)								
1,2,4-TRIMETHYLBENZENE			ND (0.0025)								
1,3,5-TRIMETHYLBENZENE			ND (0.012)								
VINYL CHLORIDE			ND (0.012)								
M/P-XYLENE			ND (0.0050)								
O-XYLENE			ND (0.0025)								
NOTES:											
1. PL-1 Soils were excavated and transported off-Site.											
2. ND (#) = None detected above detection limit provided in parenthesis.											

Table 6.2
Derivation of Exposure Point Concentrations for Soils: RGP-2 (PL-1)

Parameter	*SAMPLING LOCATION: Before Excavation*			SAMPLING LOCATION: Post-Excavation Sidewalls and Bottom								MEAN CONCENTRATION
	PL-1	*PL-1*	*PL-1*	RGP-2-1B	RGP-2-1B	RGP-2-1E	RGP-2-1E	RGP-2-1S	RGP-2-1S	RGP-2-1W	RGP-2-1W	
Sampling Date	*11/6/2015*	*11/6/2015*	*11/9/2015*	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	
Sample Depth	*Representative*	*Representative*	*Representative*	Bottom	Bottom	East Sidewall	East Sidewall	South Sidewall	South Sidewall	West Sidewall	West Sidewall	
	MADEP's Method	***USEPA 8270D***		**MADEP's Method**	**USEPA 8270D**	**MADEP's Method**	**USEPA 8270D**	**MADEP's Method**	**USEPA 8270D**	**MADEP's Method**	**USEPA 8270D**	
C9-C18 ALIPHATICS	*ND (12)*			5.5		11		5.5		23		11
C19-C36 ALIPHATICS	*44*			23		5.5		16		100		36
C11-C22 AROMATICS	*190*			25		5.5		24		120		44
ACENAPHTHENE	*1.2*	*0.395*		0.055	0.095	0.055	0.095	0.055	0.095	0.11	0.095	0.082
ACENAPHTHYLENE	*0.27*	*0.395*		0.055	0.095	0.055	0.095	0.055	0.095	0.11	0.095	0.082
ANTHRACENE	*3*	*1.9*		0.055	0.095	0.055	0.095	0.3	0.095	0.11	0.095	0.11
BENZO(A)ANTHRACENE	*6.2*	*5*		0.21	0.48	0.055	0.095	0.77	0.67	0.11	0.095	0.31
BENZO(A)PYRENE	*7.5*	*4.3*		0.25	0.47	0.055	0.095	0.79	0.64	0.11	0.46	0.36
BENZO(B)FLUORANTHENE	*8.6*	*5.5*		0.32	0.6	0.055	0.095	0.96	0.77	0.11	0.33	0.41
BENZO(G,H,I)PERYLENE	*3.2*	*2.5*		0.15	0.28	0.055	0.095	0.44	0.35	0.11	0.27	0.22
BENZO(K)FLUORANTHENE	*3*	*2.2*		0.055	0.21	0.055	0.095	0.36	0.32	0.11	0.095	0.16
CHRYSENE	*6.6*	*4.7*		0.25	0.46	0.055	0.095	0.83	0.64	0.11	0.095	0.32
DIBENZ(A,H)ANTHRACENE	*1*	*0.395*		0.055	0.095	0.055	0.095	0.13	0.095	0.11	0.095	0.091
FLUORANTHENE	*16*	*11*		0.49	0.94	0.055	0.19	1.8	1.3	0.11	0.32	0.65
FLUORENE	*1.3*	*0.82*		0.055	0.095	0.055	0.095	0.055	0.095	0.11	0.095	0.082
INDENO(1,2,3-CD)PYRENE	*3.4*	*2.7*		0.17	0.38	0.055	0.095	0.54	0.44	0.11	0.40	0.27
2-METHYLNAPHTHALENE	*0.4*	*0.395*		0.055	0.095	0.055	0.095	0.055	0.095	0.11	0.095	0.082
NAPHTHALENE	*0.72*	*0.395*		0.055	0.095	0.055	0.095	0.055	0.095	0.11	0.095	0.082
PHENANTHRENE	*12*	*7.9*		0.39	0.56	0.055	0.095	1.1	0.79	0.11	0.095	0.40
PYRENE	*15*	*8.5*		0.48	0.85	0.055	0.095	1.7	1.2	0.11	0.29	0.60
ANTIMONY	*ND (2.9)*											Background
ARSENIC	*5.9*											Background
BARIUM	*140*											140
BERYLLIUM	*1.4*											1.4
CADMIUM	*6.8*											6.8
CHROMIUM	*15*											Background
LEAD	*340*											Background
MERCURY	*0.70*											Background
NICKEL	*32*											32
SELENIUM	*ND (5.8)*											Background
SILVER	*ND (0.58)*											Background
THALLIUM	*ND (2.9)*											Background
VANADIUM	*67*											67
ZINC	*130*											Background
PCB 1016	*ND (0.11)*											
PCB 1221	*ND (0.11)*											
PCB 1232	*ND (0.11)*											
PCB 1242	*ND (0.11)*											
PCB 1248	*ND (0.11)*											
PCB 1254	*0.16*											
PCB 1260	*ND (0.11)*											
PCB 1262	*ND (0.11)*											
PCB 1268	*ND (0.11)*											
TOTAL PCBs	*0.16*											0.16
SW-846 8260C (mg/Kg dry)												
ACETONE			*0.63*									0.063
TERT-AMYLMETHYL ETHER			*ND (0.0012)*									
BENZENE			*ND (0.0025)*									
BROMOBENZENE			*ND (0.0025)*									
BROMOCHLOROMETHANE			*ND (0.0025)*									
BROMODICHLOROMETHANE			*ND (0.0025)*									
BROMOFORM			*ND (0.012)*									

Table 6.2
Derivation of Exposure Point Concentrations for Soils: RGP-2 (PL-1)

Parameter	*SAMPLING LOCATION: Before Excavation*			SAMPLING LOCATION: Post-Excavation Sidewalls and Bottom								MEAN CONCENTRATION
	PL-1	*PL-1*	*PL-1*	RGP-2-1B	RGP-2-1B	RGP-2-1E	RGP-2-1E	RGP-2-1S	RGP-2-1S	RGP-2-1W	RGP-2-1W	
Sampling Date	*11/6/2015*	*11/6/2015*	*11/9/2015*	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	
BROMOMETHANE			*ND (0.012)*									
2-BUTANONE (MEK)			*0.074*									0.074
N-BUTYLBENZENE			*ND (0.0050)*									
SEC-BUTYLBENZENE			*ND (0.0025)*									
TERT-BUTYLBENZENE			*ND (0.0025)*									
TERT-BUTYLETHYL ETHER			*ND (0.0012)*									
CARBON DISULFIDE			*ND (0.025)*									
CARBON TETRACHLORIDE			*ND (0.0050)*									
CHLOROBENZENE			*ND (0.0025)*									
CHLORODIBROMOMETHANE			*ND (0.012)*									
CHLOROETHANE			*ND (0.012)*									
CHLOROFORM			*ND (0.0050)*									
CHLOROMETHANE			*ND (0.012)*									
2-CHLOROTOLUENE			*ND (0.0025)*									
4-CHLOROTOLUENE			*ND (0.0025)*									
1,2-DIBROMO-3-CHLOROPROPANE			*ND (0.012)*									
1,2-DIBROMOETHANE (EDB)			*ND (0.0012)*									
DIBROMOMETHANE			*ND (0.0025)*									
1,2-DICHLOROBENZENE			*ND (0.0025)*									
1,3-DICHLOROBENZENE			*ND (0.0025)*									
1,4-DICHLOROBENZENE			*ND (0.0025)*									
DICHLORODIFLUOROMETHANE			*ND (0.012)*									
1,1-DICHLOROETHANE			*ND (0.0025)*									
1,2-DICHLOROETHANE			*ND (0.0025)*									
1,1-DICHLOROETHYLENE			*ND (0.0050)*									
CIS-1,2-DICHLOROETHYLENE			*ND (0.0025)*									
TRANS-1,2-DICHLOROETHYLENE			*ND (0.0025)*									
1,2-DICHLOROPROPANE			*ND (0.0025)*									
1,3-DICHLOROPROPANE			*ND (0.0012)*									
2,2-DICHLOROPROPANE			*ND (0.012)*									
1,1-DICHLOROPROPENE			*ND (0.0050)*									
CIS-1,3-DICHLOROPROPENE			*ND (0.012)*									
TRANS-1,3-DICHLOROPROPENE			*ND (0.012)*									
DIETHYL ETHER			*ND (0.012)*									
DIISOPROPYL ETHER			*ND (0.0012)*									
1,4-DIOXANE			*ND (0.12)*									
ETHYLBENZENE			*ND (0.0025)*									
HEXACHLOROBUTADIENE			*ND (0.0025)*									
2-HEXANONE			*ND (0.025)*									
ISOPROPYLBENZENE			*ND (0.0050)*									
P-ISOPROPYLTOLUENE			*ND (0.0025)*									
METHYL TERT-BUTYL ETHER (MTBE)			*ND (0.0050)*									
METHYLENE CHLORIDE			*ND (0.012)*									
4-METHYL-2-PENTANONE (MIBK)			*ND (0.025)*									
NAPHTHALENE			*ND (0.012)*									
N-PROPYLBENZENE			*ND (0.0050)*									
STYRENE			*ND (0.0025)*									
1,1,1,2-TETRACHLOROETHANE			*ND (0.012)*									
1,1,2,2-TETRACHLOROETHANE			*ND (0.0012)*									
TETRACHLOROETHYLENE			*ND (0.012)*									
TETRAHYDROFURAN			*ND (0.012)*									
TOLUENE			*ND (0.0025)*									
1,2,3-TRICHLOROBENZENE			*ND (0.0050)*									
1,2,4-TRICHLOROBENZENE			*ND (0.012)*									
1,1,1-TRICHLOROETHANE			*ND (0.0050)*									
1,1,2-TRICHLOROETHANE			*ND (0.0025)*									

Table 6.2
Derivation of Exposure Point Concentrations for Soils: RGP-2 (PL-1)

Parameter	*SAMPLING LOCATION: Before Excavation*			SAMPLING LOCATION: Post-Excavation Sidewalls and Bottom								MEAN CONCENTRATION
	PL-1	*PL-1*	*PL-1*	RGP-2-1B	RGP-2-1B	RGP-2-1E	RGP-2-1E	RGP-2-1S	RGP-2-1S	RGP-2-1W	RGP-2-1W	
Sampling Date	*11/6/2015*	*11/6/2015*	*11/9/2015*	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	12/18/2015	
TRICHLOROETHYLENE			*ND (0.0025)*									
TRICHLOROFLUOROMETHANE			*ND (0.012)*									
1,2,3-TRICHLOROPROPANE			*ND (0.0025)*									
1,2,4-TRIMETHYLBENZENE			*ND (0.0025)*									
1,3,5-TRIMETHYLBENZENE			*ND (0.012)*									
VINYL CHLORIDE			*ND (0.012)*									
M/P-XYLENE			*ND (0.0050)*									
O-XYLENE			*ND (0.0025)*									
NOTES:												
1. When none detected, one-half detection limit was used as surrogate value for calculating												
exposure point concentration.												
2. Exposure point concentration is the mean concentration for all confirmatory soil samples.												
3. Italics, Soils removed from Site and not considered representative of current Site conditions (except for metals, PCBs and VOCs). Data not used in risk assessment (except for PCB, metal and VOC data).												

Table 7
Summary of Soil Analytical Data:
RGP-3

Parameter	SAMPLING LOCATION							
	SB-2	**SB-2-SP**	**SB-2-SP2**	**SB-2-B***	**SB-2-EB***	**SB-2-N***	**SB-2-S***	**SB-2-W***
Sampling Date	11/12/2015	11/20/2015	12/3/2015	11/20/2015	11/20/2015	11/20/2015	11/20/2015	11/20/2015
Sample Location	Representative	Stockpile	Stockpile	Bottom 130 Feet	East Sidewall 130 Feet	North Sidewall 130 - 134 Feet	South Sidewall 130-134 Feet	West Sidewall 130-134 Feet
MADEP-EPH-04-1.1 (mg/Kg dry)								
C9-C18 ALIPHATICS	1200	ND (22)	NT	ND (22)	ND (22)	ND (23)	ND (23)	15
C19-C36 ALIPHATICS	5100	60	NT	64	62	58	56	20
UNADJUSTED C11-C22 AROMATICS	2200	600	NT	1100	520	530	1400	460
C11-C22 AROMATICS	1800	380	NT	620	330	330	740	270
ACENAPHTHENE	8.4	2.3	NT	4.3	2.4	2.9	5.8	2.7
ACENAPHTHYLENE	ND (0.21)	2.5	NT	2.9	0.58	0.31	3.5	0.67
ANTHRACENE	26	9.3	NT	18	8.9	7.8	24	7.7
BENZO(A)ANTHRACENE	29	17	NT	32	14	15	30	12
BENZO(A)PYRENE	22	14	NT	25	12	13	22	10
BENZO(B)FLUORANTHENE	27	18	NT	34	16	17	32	14
BENZO(G,H,I)PERYLENE	9.9	6.3	NT	11	5.9	5.9	9.3	4.9
BENZO(K)FLUORANTHENE	10	7.0	NT	13	5.9	6.4	12	5.0
CHRYSENE	28	17	NT	31	15	16	32	13
DIBENZ(A,H)ANTHRACENE	3.5	2.2	NT	3.7	1.9	1.9	3.3	1.7
FLUORANTHENE	72	41	NT	79	34	39	94	31
FLUORENE	13	6.1	NT	8.0	3.8	3.3	14	3.8
INDENO(1,2,3-CD)PYRENE	13	7.4	NT	13	7.4	7.7	11	6.3
2-METHYLNAPHTHALENE	2.9	2.1	NT	1.3	0.74	0.59	2.6	0.79
NAPHTHALENE	2.5	5.4	NT	3.8	1.4	1.1	4.0	1.9
PHENANTHRENE	75	32	NT	54	27	27	94	25
PYRENE	66	35	NT	68	31	36	73	28
SM 2540G (% Wt)								
% Solids	92.3	90.2	86.1	90.0	88.4	87.5	88.1	89.4
SW-846 6010C (mg/Kg dry) Metals Digestion								
ANTIMONY	3.7	NT	NT	NT	NT	NT	NT	NT
ARSENIC	2.7	NT	NT	NT	NT	NT	NT	NT
BARIUM	69	NT	NT	NT	NT	NT	NT	NT
BERYLLIUM	0.33	NT	NT	NT	NT	NT	NT	NT
CADMIUM	1.3	NT	NT	NT	NT	NT	NT	NT
CHROMIUM	20	NT	NT	NT	NT	NT	NT	NT
LEAD	220	NT	NT	NT	NT	NT	NT	NT
NICKEL	13	NT	NT	NT	NT	NT	NT	NT
SELENIUM	ND (5.0)	NT	NT	NT	NT	NT	NT	NT
SILVER	1.1	NT	NT	NT	NT	NT	NT	NT
THALLIUM	ND (2.5)	NT	NT	NT	NT	NT	NT	NT
VANADIUM	25	NT	NT	NT	NT	NT	NT	NT
ZINC	250	NT	NT	NT	NT	NT	NT	NT
SW-846 7471B (mg/Kg dry) Metals Digestion								
MERCURY	0.24	NT	NT	NT	NT	NT	NT	NT
SW-846 8082A (mg/Kg dry)								
PCB 1016	ND (0.43)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1221	ND (0.43)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1232	ND (0.43)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1242	2.2	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1248	ND (0.43)	ND (0.11)	ND (0.11)	ND (0.11)	0.27	0.28	ND (0.11)	ND (0.11)
PCB 1254	1.0	ND (0.11)	ND (0.11)	ND (0.11)	0.13	0.20	ND (0.11)	ND (0.11)
PCB 1260	1.4	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1262	ND (0.43)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1268	ND (0.43)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
TOTAL PCBs	4.6	None detected	None detected	None detected	0.40	0.48	None detected	None detected
SW-846 8260C (mg/Kg dry)								
ACETONE	ND (0.13)	NT	NT	NT	NT	NT	NT	NT
TERT-AMYLMETHYL ETHER	ND (0.0013)	NT	NT	NT	NT	NT	NT	NT
BENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
BROMOBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
BROMOCHLOROMETHANE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
BROMODICHLOROMETHANE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
BROMOFORM	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
BROMOMETHANE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
2-BUTANONE (MEK)	ND (0.051)	NT	NT	NT	NT	NT	NT	NT
N-BUTYLBENZENE	ND (0.0051)	NT	NT	NT	NT	NT	NT	NT
SEC-BUTYLBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
TERT-BUTYLBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
TERT-BUTYLETHYL ETHER	ND (0.0013)	NT	NT	NT	NT	NT	NT	NT
CARBON DISULFIDE	ND (0.026)	NT	NT	NT	NT	NT	NT	NT
CARBON TETRACHLORIDE	ND (0.0051)	NT	NT	NT	NT	NT	NT	NT
CHLOROBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
CHLORODIBROMOMETHANE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
CHLOROETHANE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
CHLOROFORM	ND (0.0051)	NT	NT	NT	NT	NT	NT	NT
CHLOROMETHANE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
2-CHLOROTOLUENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
4-CHLOROTOLUENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
1,2-DIBROMO-3-CHLOROPROPANE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
1,2-DIBROMOETHANE (EDB)	ND (0.0013)	NT	NT	NT	NT	NT	NT	NT
DIBROMOMETHANE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
1,2-DICHLOROBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
1,3-DICHLOROBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
1,4-DICHLOROBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
DICHLORODIFLUOROMETHANE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
1,1-DICHLOROETHANE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
1,2-DICHLOROETHANE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
1,1-DICHLOROETHYLENE	ND (0.0051)	NT	NT	NT	NT	NT	NT	NT
CIS-1,2-DICHLOROETHYLENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
TRANS-1,2-DICHLOROETHYLENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
1,2-DICHLOROPROPANE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
1,3-DICHLOROPROPANE	ND (0.0013)	NT	NT	NT	NT	NT	NT	NT
2,2-DICHLOROPROPANE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
1,1-DICHLOROPROPENE	ND (0.0051)	NT	NT	NT	NT	NT	NT	NT
CIS-1,3-DICHLOROPROPENE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT

Table 7
Summary of Soil Analytical Data:
RGP-3

Parameter	SAMPLING LOCATION							
	SB-2	SB-2-SP	SB-2-SP2	SB-2-B*	SB-2-EB*	SB-2-N*	SB-2-S*	SB-2-W*
Sampling Date	11/12/2015	11/20/2015	12/3/2015	11/20/2015	11/20/2015	11/20/2015	11/20/2015	11/20/2015
Sample Location	Representative	Stockpile	Stockpile	Bottom	East Sidewall	North Sidewall	South Sidewall	West Sidewall
TRANS-1,3-DICHLOROPROPENE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
DIETHYL ETHER	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
DIISOPROPYL ETHER	ND (0.0013)	NT	NT	NT	NT	NT	NT	NT
1,4-DIOXANE	ND (0.13)	NT	NT	NT	NT	NT	NT	NT
ETHYLBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
HEXACHLOROBUTADIENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
2-HEXANONE	ND (0.026)	NT	NT	NT	NT	NT	NT	NT
ISOPROPYLBENZENE	ND (0.0051)	NT	NT	NT	NT	NT	NT	NT
P-ISOPROPYLTOLUENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
METHYL TERT-BUTYL ETHER (MTBE)	ND (0.0051)	NT	NT	NT	NT	NT	NT	NT
METHYLENE CHLORIDE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
4-METHYL-2-PENTANONE (MIBK)	ND (0.026)	NT	NT	NT	NT	NT	NT	NT
NAPHTHALENE	0.014	NT	NT	NT	NT	NT	NT	NT
N-PROPYLBENZENE	ND (0.0051)	NT	NT	NT	NT	NT	NT	NT
STYRENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
1,1,1,2-TETRACHLOROETHANE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
1,1,2,2-TETRACHLOROETHANE	ND (0.0013)	NT	NT	NT	NT	NT	NT	NT
TETRACHLOROETHYLENE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
TETRAHYDROFURAN	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
TOLUENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
1,2,3-TRICHLOROBENZENE	ND (0.0051)	NT	NT	NT	NT	NT	NT	NT
1,2,4-TRICHLOROBENZENE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
1,1,1-TRICHLOROETHANE	ND (0.0051)	NT	NT	NT	NT	NT	NT	NT
1,1,2-TRICHLOROETHANE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
TRICHLOROETHYLENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
TRICHLOROFLUOROMETHANE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
1,2,3-TRICHLOROPROPANE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
1,2,4-TRIMETHYLBENZENE	0.010	NT	NT	NT	NT	NT	NT	NT
1,3,5-TRIMETHYLBENZENE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
VINYL CHLORIDE	ND (0.013)	NT	NT	NT	NT	NT	NT	NT
M/P-XYLENE	ND (0.0051)	NT	NT	NT	NT	NT	NT	NT
O-XYLENE	ND (0.0026)	NT	NT	NT	NT	NT	NT	NT
SW-846 8270D (mg/Kg dry)								
ACENAPHTHENE	1.2	NT	NT	NT	NT	NT	NT	NT
ACENAPHTHYLENE	ND (0.36)	NT	NT	NT	NT	NT	NT	NT
ACETOPHENONE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
ANILINE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
ANTHRACENE	2.4	NT	NT	NT	NT	NT	NT	NT
BENZO(A)ANTHRACENE	3.2	NT	NT	NT	NT	NT	NT	NT
BENZO(A)PYRENE	2.7	NT	NT	NT	NT	NT	NT	NT
BENZO(B)FLUORANTHENE	3.5	NT	NT	NT	NT	NT	NT	NT
BENZO(G,H,I)PERYLENE	2.2	NT	NT	NT	NT	NT	NT	NT
BENZO(K)FLUORANTHENE	1.4	NT	NT	NT	NT	NT	NT	NT
BIS(2-CHLOROETHOXY)METHANE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
BIS(2-CHLOROETHYL)ETHER	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
BIS(2-CHLOROISOPROPYL)ETHER	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
BIS(2-ETHYLHEXYL)PHTHALATE	1.2	NT	NT	NT	NT	NT	NT	NT
4-BROMOPHENYL PHENYL ETHER	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
BUTYLBENZYLPHTHALATE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
4-CHLOROANILINE	ND (1.4)	NT	NT	NT	NT	NT	NT	NT
2-CHLORONAPHTHALENE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
2-CHLOROPHENOL	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
CHRYSENE	3.2	NT	NT	NT	NT	NT	NT	NT
DIBENZ(A,H)ANTHRACENE	0.54	NT	NT	NT	NT	NT	NT	NT
DIBENZOFURAN	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
DI-N-BUTYLPHTHALATE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
1,2-DICHLOROBENZENE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
1,3-DICHLOROBENZENE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
1,4-DICHLOROBENZENE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
3,3'-DICHLOROBENZIDINE	ND (0.36)	NT	NT	NT	NT	NT	NT	NT
2,4-DICHLOROPHENOL	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
DIETHYLPHTHALATE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
2,4-DIMETHYLPHENOL	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
DIMETHYLPHTHALATE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
2,4-DINITROPHENOL	ND (1.4)	NT	NT	NT	NT	NT	NT	NT
2,4-DINITROTOLUENE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
2,6-DINITROTOLUENE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
DI-N-OCTYLPHTHALATE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
FLUORANTHENE	7.9	NT	NT	NT	NT	NT	NT	NT
FLUORENE	1.7	NT	NT	NT	NT	NT	NT	NT
HEXACHLOROBENZENE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
HEXACHLOROBUTADIENE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
HEXACHLOROETHANE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
INDENO(1,2,3-CD)PYRENE	2.3	NT	NT	NT	NT	NT	NT	NT
ISOPHORONE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
2-METHYLNAPHTHALENE	0.56	NT	NT	NT	NT	NT	NT	NT
O-CRESOL	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
M/P-CRESOL	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
NAPHTHALENE	0.50	NT	NT	NT	NT	NT	NT	NT
NITROBENZENE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
2-NITROPHENOL	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
4-NITROPHENOL	ND (1.4)	NT	NT	NT	NT	NT	NT	NT
PENTACHLOROPHENOL	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
PHENANTHRENE	8.3	NT	NT	NT	NT	NT	NT	NT
PHENOL	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
PYRENE	7.2	NT	NT	NT	NT	NT	NT	NT
1,2,4-TRICHLOROBENZENE	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
2,4,5-TRICHLOROPHENOL	ND (0.73)	NT	NT	NT	NT	NT	NT	NT
2,4,6-TRICHLOROPHENOL	ND (0.73)	NT	NT	NT	NT	NT	NT	NT

NOTES:
1. ND = Not detected above lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. * = Final Confirmatory Sample

Table 8
Summary of Soil Analytical Data:
RGP-4

Parameter	SAMPLING LOCATION	
	RGP-4 SP-1	RGP-4-2
Sampling Date	12/15/2015	12/17/2015
Sample Depth	Stockpile	Stockpile
SM 2540G (% Wt)		
% Solids	87.6	85.3
SW-846 1010A (°F)		
FLASHPOINT	> 212 °F	> 212 °F
SW-846 1030 (present/absent)		
IGNITABILITY	Present	Present
SW-846 6010C (mg/Kg dry) Metals Digestion		
ANTIMONY	ND (2.7)	ND (2.9)
ARSENIC	4.9	4.2
BARIUM	25	24
BERYLLIUM	ND (0.27)	0.40
CADMIUM	0.66	0.73
CHROMIUM	4.0	4.6
LEAD	47	22
NICKEL	4.4	4.8
SELENIUM	ND (5.5)	ND (5.9)
SILVER	ND (0.55)	ND (0.59)
THALLIUM	ND (2.7)	ND (2.9)
VANADIUM	7.6	15
ZINC	41	36
SW-846 6010C (mg/L) 1311 TCLP EXT		
LEAD	0.24	0.21
SW-846 7471B (mg/Kg dry) Metals Digestion		
MERCURY	0.094	ND (0.029)
SW-846 8082A (mg/Kg dry)		
PCB 1016	ND (0.11)	ND (0.11)
PCB 1221	ND (0.11)	ND (0.11)
PCB 1232	ND (0.11)	ND (0.11)
PCB 1242	ND (0.11)	ND (0.11)
PCB 1248	ND (0.11)	ND (0.11)
PCB 1254	ND (0.11)	ND (0.11)
PCB 1260	ND (0.11)	ND (0.11)
PCB 1262	ND (0.11)	ND (0.11)
PCB 1268	ND (0.11)	ND (0.11)
SW-846 8100 Modified (mg/Kg dry)		
TPH	290000	270000
SW-846 8260C (mg/Kg dry)		
ACETONE	ND (1700)	ND (3200)
TERT-AMYLMETHYL ETHER	ND (17)	ND (32)
BENZENE	ND (34)	ND (64)
BROMOBENZENE	ND (34)	ND (64)
BROMOCHLOROMETHANE	ND (34)	ND (64)
BROMODICHLOROMETHANE	ND (170)	ND (64)
BROMOFORM	ND (340)	ND (64)
BROMOMETHANE	ND (340)	ND (320)
2-BUTANONE (MEK)	ND (680)	ND (1300)
N-BUTYLBENZENE	ND (34)	ND (64)
SEC-BUTYLBENZENE	ND (34)	ND (64)
TERT-BUTYLBENZENE	ND (34)	ND (64)
TERT-BUTYLETHYL ETHER	ND (17)	ND (32)
CARBON DISULFIDE	ND (340)	ND (640)
CARBON TETRACHLORIDE	ND (170)	ND (64)
CHLOROBENZENE	ND (34)	ND (64)
CHLORODIBROMOMETHANE	ND (68)	ND (32)
CHLOROETHANE	ND (68)	ND (130)
CHLOROFORM	ND (68)	ND (130)
CHLOROMETHANE	ND (68)	ND (320)
2-CHLOROTOLUENE	ND (34)	ND (64)
4-CHLOROTOLUENE	ND (34)	ND (64)
1,2-DIBROMO-3-CHLOROPROPANE	ND (170)	ND (260)
1,2-DIBROMOETHANE (EDB)	ND (17)	ND (32)
DIBROMOMETHANE	ND (34)	ND (64)
1,2-DICHLOROBENZENE	ND (34)	ND (64)
1,3-DICHLOROBENZENE	ND (34)	ND (64)
1,4-DICHLOROBENZENE	ND (34)	ND (64)
DICHLORODIFLUOROMETHANE	ND (68)	ND (130)
1,1-DICHLOROETHANE	ND (34)	ND (64)
1,2-DICHLOROETHANE	ND (34)	ND (64)
1,1-DICHLOROETHYLENE	ND (34)	ND (64)
CIS-1,2-DICHLOROETHYLENE	ND (34)	ND (64)

Table 8
Summary of Soil Analytical Data:
RGP-4

Parameter	SAMPLING LOCATION	
	RGP-4 SP-1	RGP-4-2
Sampling Date	12/15/2015	12/17/2015
Sample Depth	Stockpile	Stockpile
TRANS-1,2-DICHLOROETHYLENE	ND (34)	ND (64)
1,2-DICHLOROPROPANE	ND (34)	ND (64)
1,3-DICHLOROPROPANE	ND (17)	ND (32)
2,2-DICHLOROPROPANE	ND (34)	ND (64)
1,1-DICHLOROPROPENE	ND (68)	ND (130)
CIS-1,3-DICHLOROPROPENE	ND (170)	ND (32)
TRANS-1,3-DICHLOROPROPENE	ND (68)	ND (32)
DIETHYL ETHER	ND (68)	ND (130)
DIISOPROPYL ETHER	ND (17)	ND (32)
1,4-DIOXANE	ND (1700)	ND (3200)
ETHYLBENZENE	ND (34)	ND (64)
HEXACHLOROBUTADIENE	ND (34)	ND (64)
2-HEXANONE	ND (340)	ND (640)
ISOPROPYLBENZENE	ND (34)	ND (64)
P-ISOPROPYLTOLUENE	ND (34)	ND (64)
METHYL TERT-BUTYL ETHER (MTBE)	ND (34)	ND (64)
METHYLENE CHLORIDE	ND (170)	ND (320)
4-METHYL-2-PENTANONE (MIBK)	ND (340)	ND (640)
NAPHTHALENE	3700	3300
N-PROPYLBENZENE	ND (34)	ND (64)
STYRENE	ND (34)	ND (64)
1,1,1,2-TETRACHLOROETHANE	ND (170)	ND (64)
1,1,2,2-TETRACHLOROETHANE	ND (170)	ND (32)
TETRACHLOROETHYLENE	ND (34)	ND (64)
TETRAHYDROFURAN	ND (140)	ND (260)
TOLUENE	ND (34)	ND (64)
1,2,3-TRICHLOROBENZENE	ND (140)	ND (260)
1,2,4-TRICHLOROBENZENE	ND (34)	ND (64)
1,1,1-TRICHLOROETHANE	ND (34)	ND (64)
1,1,2-TRICHLOROETHANE	ND (34)	ND (64)
TRICHLOROETHYLENE	ND (34)	ND (64)
TRICHLOROFLUOROMETHANE	ND (68)	ND (130)
1,2,3-TRICHLOROPROPANE	ND (68)	ND (130)
1,2,4-TRIMETHYLBENZENE	ND (34)	ND (64)
1,3,5-TRIMETHYLBENZENE	ND (34)	ND (64)
VINYL CHLORIDE	ND (68)	ND (130)
M/P-XYLENE	ND (68)	ND (130)
O-XYLENE	ND (34)	ND (64)
SW-846 8270D (mg/Kg dry)		
ACENAPHTHENE	380	190
ACENAPHTHYLENE	4600	2100
ACETOPHENONE	ND (190)	ND (23)
ANILINE	ND (190)	ND (23)
ANTHRACENE	4600	2300
BENZO(A)ANTHRACENE	4200	2100
BENZO(A)PYRENE	3200	1500
BENZO(B)FLUORANTHENE	3800	1800
BENZO(G,H,I)PERYLENE	920	670
BENZO(K)FLUORANTHENE	1300	750
BIS(2-CHLOROETHOXY)METHANE	ND (190)	ND (23)
BIS(2-CHLOROETHYL)ETHER	ND (190)	ND (23)
BIS(2-CHLOROISOPROPYL)ETHER	ND (190)	ND (23)
BIS(2-ETHYLHEXYL)PHTHALATE	ND (190)	ND (23)
4-BROMOPHENYL PHENYL ETHER	ND (190)	ND (23)
BUTYLBENZYLPHTHALATE	ND (190)	ND (23)
4-CHLOROANILINE	ND (380)	ND (46)
2-CHLORONAPHTHALENE	ND (190)	ND (23)
2-CHLOROPHENOL	ND (190)	ND (23)
CHRYSENE	3500	1800
DIBENZ(A,H)ANTHRACENE	360	270
DIBENZOFURAN	4300	1900
DI-N-BUTYLPHTHALATE	ND (190)	ND (23)
1,2-DICHLOROBENZENE	ND (190)	ND (23)
1,3-DICHLOROBENZENE	ND (190)	ND (23)
1,4-DICHLOROBENZENE	ND (190)	ND (23)
3,3'-DICHLOROBENZIDINE	ND (97)	ND (12)
2,4-DICHLOROPHENOL	ND (190)	ND (23)
DIETHYLPHTHALATE	ND (190)	ND (23)
2,4-DIMETHYLPHENOL	310	160
DIMETHYLPHTHALATE	ND (190)	ND (23)

Table 8
Summary of Soil Analytical Data:
RGP-4

Parameter	SAMPLING LOCATION	
	RGP-4 SP-1	RGP-4-2
Sampling Date	12/15/2015	12/17/2015
Sample Depth	Stockpile	Stockpile
2,4-DINITROPHENOL	ND (380)	ND (46)
2,4-DINITROTOLUENE	ND (190)	ND (23)
2,6-DINITROTOLUENE	ND (190)	ND (23)
DI-N-OCTYLPHTHALATE	ND (190)	ND (23)
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	ND (190)	ND (23)
FLUORANTHENE	11000	5000
FLUORENE	6900	3200
HEXACHLOROBENZENE	ND (190)	ND (23)
HEXACHLOROBUTADIENE	ND (190)	ND (23)
HEXACHLOROETHANE	ND (190)	ND (23)
INDENO(1,2,3-CD)PYRENE	1100	810
ISOPHORONE	ND (190)	ND (23)
2-METHYLNAPHTHALENE	5400	2600
O-CRESOL	360	230
M/P-CRESOL	1100	710
NAPHTHALENE	25000	12000
NITROBENZENE	ND (190)	ND (23)
2-NITROPHENOL	ND (190)	ND (23)
4-NITROPHENOL	ND (380)	ND (46)
PENTACHLOROPHENOL	ND (190)	ND (23)
PHENANTHRENE	18000	8000
PHENOL	1100	720
PYRENE	7500	3800
1,2,4-TRICHLOROBENZENE	ND (190)	ND (23)
2,4,5-TRICHLOROPHENOL	ND (190)	ND (23)
2,4,6-TRICHLOROPHENOL	ND (190)	ND (23)
SW-846 8270D (mg/L dry) 1311 TCLP EXT		
2,4-DINITROTOLUENE	ND (0.050)	ND (0.059)
HEXACHLOROBENZENE	ND (0.050)	ND (0.059)
HEXACHLOROBUTADIENE	ND (0.050)	ND (0.059)
HEXACHLOROETHANE	ND (0.050)	ND (0.059)
O-CRESOL	4.2	1.1
M/P-CRESOL	13	3.2
NITROBENZENE	ND (0.050)	ND (0.059)
PENTACHLOROPHENOL	ND (0.050)	ND (0.059)
PYRIDINE	0.085	ND (0.029)
2,4,5-TRICHLOROPHENOL	ND (0.050)	ND (0.059)
2,4,6-TRICHLOROPHENOL	ND (0.050)	ND (0.059)
SW-846 9045C (pH Units)		
PH	9.4	11
SW-846 9014 (mg/Kg)		
REACTIVE CYANIDE	ND (3.9)	ND (4.0)
SW-846 9030A (mg/Kg)		
REACTIVE SULFIDE	ND (20)	ND (20)

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.

Table 9.1
Summary of Soil Analytical Data:
RGP-345

Parameter	SAMPLING LOCATION								
	RGP-3,4,5	RGP-345-SP1	RGP-345-SP-1A	RGP-345-SP2	RGP-345-SP-2A	RGP-345-SP12A	RGP-345-SP12B	RGP-345-SP3	RGP-345-SP4
Sampling Date	1/7/2016	1/14/2016	1/29/2016	1/14/2016	1/29/2016	2/4/2016	2/4/2016	1/15/2016	2/23/2016
Sample Depth	Representative	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile
SM 2540G (% Wt)									
% Solids	86.3	85.2	92.3	83.6	85.6	77.2 / 84.2	83.5 / 86.7	80.3	90.0
SM21-22 2510B Modified (µmhos/cm)									
SPECIFIC CONDUCTANCE	3.6	7.2	NT	7.5	NT	NT	NT	13	15
SW-846 1010A (°F)									
FLASHPOINT	> 212 °F	> 212 °F	NT	> 212 °F	NT	> 212 °F	> 212 °F	> 212 °F	NT
SW-846 1030 (present/absent)									
IGNITABILITY	Present	Absent	NT	Present	NT	NT	NT	Absent	Present
SW-846 6010C (mg/Kg dry)									
ANTIMONY	ND (2.9)	ND (2.9)	NT	ND (3.0)	NT	ND (3.1)	ND (2.8)	ND (3.1)	ND (2.7)
ARSENIC	7.8	ND (2.9)	NT	4.7	NT	6.6	ND (2.8)	4.5	ND (2.7)
BARIUM	21	36	NT	24	NT	31	27	64	28
BERYLLIUM	ND (0.29)	ND (0.29)	NT	ND (0.30)	NT	0.32	0.54	0.55	ND (0.27)
CADMIUM	1.0	ND (0.29)	NT	0.59	NT	1.3	0.38	1.0	0.31
CHROMIUM	4.6	8.4	NT	7.4	NT	3.0	8.6	13	5.8
LEAD	38	67	68	63	64	140	47	220	43
NICKEL	2.8	16	NT	9.7	NT	3.7	6.4	16	10
SELENIUM	ND (5.8)	ND (5.9)	NT	ND (5.9)	NT	ND (6.1)	ND (5.7)	ND (6.2)	ND (5.4)
SILVER	ND (0.58)	ND (0.59)	NT	ND (0.59)	NT	ND (0.61)	ND (0.57)	ND (0.62)	ND (0.54)
THALLIUM	ND (2.9)	ND (2.9)	NT	ND (3.0)	NT	ND (3.1)	ND (2.8)	ND (3.1)	ND (2.7)
VANADIUM	7.1	24	NT	18	NT	6.4	23	20	25
ZINC	48	49	NT	43	NT	58	33	210	37
SW-846 7471B (mg/Kg dry)									
MERCURY	0.062	0.037	NT	0.046	NT	0.05	0.09	0.34	0.11
SW-846 6010C (mg/L) 1311 TCLP EXT									
LEAD	NT	NT	NT	NT	NT	0.99	NT	0.39	0.16
SW-846 8100 Modified (mg/Kg dry)									
TPH	65000	11000	NT	12000	NT	110000	130000	250	28000
SW-846 8081B (mg/Kg dry)									
ALDRIN	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.053)
ALPHA-BHC	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.053)
BETA-BHC	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.053)
DELTA-BHC	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.053)
GAMMA-BHC (LINDANE)	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.021)
CHLORDANE	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.21)
4,4'-DDD	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.043)
4,4'-DDE	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.043)
4,4'-DDT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.043)
DIELDRIN	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.043)
ENDOSULFAN I	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.053)
ENDOSULFAN II	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.085)
ENDOSULFAN SULFATE	NT	NT	NT	NT	NT	NT	NT	NT	0.10
ENDRIN	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.085)
ENDRIN KETONE	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.085)
HEPTACHLOR	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.053)
HEPTACHLOR EPOXIDE	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.053)
HEXACHLOROBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.064)
METHOXYCHLOR	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.53)
SW-846 8260C (mg/Kg dry)									
ACETONE	ND (4800)	ND (41)	ND (3100)	ND (4600)	ND (8500)	ND (820)	ND (2800)	ND (1700)	ND (6000)
TERT-AMYLMETHYL ETHER	ND (48)	ND (0.41)	ND (31)	ND (46)	ND (85)	ND (8.2)	ND (28)	ND (17)	ND (60)
BENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	22	ND (55)	34	ND (120)
BROMOBENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
BROMOCHLOROMETHANE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
BROMODICHLOROMETHANE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
BROMOFORM	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
BROMOMETHANE	ND (480)	ND (4.1)	ND (310)	ND (460)	ND (850)	ND (82)	ND (280)	ND (170)	ND (240)
2-BUTANONE (MEK)	ND (1900)	ND (16)	ND (1200)	ND (1800)	ND (3400)	ND (330)	ND (1100)	ND (670)	ND (2400)
N-BUTYLBENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
SEC-BUTYLBENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
TERT-BUTYLBENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
TERT-BUTYLETHYL ETHER	ND (48)	ND (0.41)	ND (31)	ND (46)	ND (85)	ND (8.2)	ND (28)	ND (17)	ND (60)
CARBON DISULFIDE	ND (970)	ND (8.1)	ND (81)	ND (920)	ND (1700)	ND (160)	ND (550)	ND (340)	ND (1200)
CARBON TETRACHLORIDE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
CHLOROBENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
CHLORODIBROMOMETHANE	ND (48)	ND (0.41)	ND (31)	ND (46)	ND (85)	ND (8.2)	ND (28)	ND (17)	ND (60)
CHLOROETHANE	ND (190)	ND (1.6)	ND (120)	ND (180)	ND (340)	ND (33)	ND (110)	ND (67)	ND (240)
CHLOROFORM	ND (190)	ND (1.6)	ND (120)	ND (180)	ND (340)	ND (33)	ND (110)	ND (67)	ND (240)
CHLOROMETHANE	ND (480)	ND (4.1)	ND (310)	ND (460)	ND (850)	ND (82)	ND (280)	ND (170)	ND (240)
2-CHLOROTOLUENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
4-CHLOROTOLUENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
1,2-DIBROMO-3-CHLOROPROPANE	ND (390)	ND (3.2)	ND (240)	ND (370)	ND (680)	ND (65)	ND (220)	ND (130)	ND (480)
1,2-DIBROMOETHANE (EDB)	ND (48)	ND (0.41)	ND (31)	ND (46)	ND (85)	ND (8.2)	ND (28)	ND (17)	ND (60)
DIBROMOMETHANE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
1,2-DICHLOROBENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
1,3-DICHLOROBENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
1,4-DICHLOROBENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
DICHLORODIFLUOROMETHANE	ND (190)	ND (1.6)	ND (120)	ND (180)	ND (340)	ND (33)	ND (110)	ND (67)	ND (240)
1,1-DICHLOROETHANE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
1,2-DICHLOROETHANE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
1,1-DICHLOROETHYLENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
CIS-1,2-DICHLOROETHYLENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
TRANS-1,2-DICHLOROETHYLENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
1,2-DICHLOROPROPANE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
1,3-DICHLOROPROPANE	ND (48)	ND (0.41)	ND (31)	ND (46)	ND (85)	ND (8.2)	ND (28)	ND (17)	ND (60)
2,2-DICHLOROPROPANE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
1,1-DICHLOROPROPENE	ND (190)	ND (1.6)	ND (120)	ND (180)	ND (340)	ND (33)	ND (110)	ND (67)	ND (240)
CIS-1,3-DICHLOROPROPENE	ND (48)	ND (0.41)	ND (31)	ND (46)	ND (85)	ND (8.2)	ND (28)	ND (17)	ND (60)
TRANS-1,3-DICHLOROPROPENE	ND (48)	ND (0.41)	ND (31)	ND (46)	ND (85)	ND (8.2)	ND (28)	ND (17)	ND (60)
DIETHYL ETHER	ND (190)	ND (1.6)	ND (120)	ND (180)	ND (340)	ND (33)	ND (110)	ND (67)	ND (240)

Table 9.1
Summary of Soil Analytical Data:
RGP-345

Parameter	SAMPLING LOCATION								
	RGP-3,4,5	RGP-345-SP1	RGP-345-SP-1A	RGP-345-SP2	RGP-345-SP-2A	RGP-345-SP12A	RGP-345-SP12B	RGP-345-SP3	RGP-345-SP4
Sampling Date	1/7/2016	1/14/2016	1/29/2016	1/14/2016	1/29/2016	2/4/2016	2/4/2016	1/15/2016	2/23/2016
Sample Depth	Representative	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile
DIISOPROPYL ETHER	ND (48)	ND (0.41)	ND (31)	ND (46)	ND (85)	ND (8.2)	ND (28)	ND (17)	ND (60)
1,4-DIOXANE	ND (4800)	ND (41)	ND (3100)	ND (4600)	ND (8500)	ND (820)	ND (2800)	ND (1700)	ND (6000)
ETHYLBENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
HEXACHLOROBUTADIENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
2-HEXANONE	ND (970)	ND (8.1)	ND (81)	ND (920)	ND (1700)	ND (160)	ND (550)	ND (340)	ND (1200)
ISOPROPYLBENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
P-ISOPROPYLTOLUENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
METHYL TERT-BUTYL ETHER (MTBE)	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
METHYLENE CHLORIDE	ND (480)	ND (4.1)	ND (310)	ND (460)	ND (850)	ND (82)	ND (280)	ND (170)	ND (600)
4-METHYL-2-PENTANONE (MIBK)	ND (970)	ND (8.1)	ND (81)	ND (920)	ND (1700)	ND (160)	ND (550)	ND (340)	ND (1200)
NAPHTHALENE	4100	36	1600	8600	14000	3100	6600	5400	6100
N-PROPYLBENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
STYRENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
1,1,1,2-TETRACHLOROETHANE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
1,1,2,2-TETRACHLOROETHANE	ND (48)	ND (0.41)	ND (31)	ND (46)	ND (85)	ND (8.2)	ND (28)	ND (17)	ND (60)
TETRACHLOROETHYLENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
TETRAHYDROFURAN	ND (390)	ND (3.2)	ND (240)	ND (370)	ND (680)	ND (65)	ND (220)	ND (130)	ND (480)
TOLUENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	22	56	42	ND (120)
1,2,3-TRICHLOROBENZENE	ND (390)	ND (3.2)	ND (240)	ND (370)	ND (680)	ND (65)	ND (220)	ND (130)	ND (480)
1,2,4-TRICHLOROBENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
1,1,1-TRICHLOROETHANE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
1,1,2-TRICHLOROETHANE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
TRICHLOROETHYLENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
TRICHLOROFLUOROMETHANE	ND (190)	ND (1.6)	ND (120)	ND (180)	ND (340)	ND (33)	ND (110)	ND (67)	ND (240)
1,2,3-TRICHLOROPROPANE	ND (190)	ND (1.6)	ND (120)	ND (180)	ND (340)	ND (33)	ND (110)	ND (67)	ND (240)
1,2,4-TRIMETHYLBENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
1,3,5-TRIMETHYLBENZENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
VINYL CHLORIDE	ND (190)	ND (1.6)	ND (120)	ND (180)	ND (340)	ND (33)	ND (110)	ND (67)	ND (240)
M/P-XYLENE	ND (190)	ND (1.6)	ND (120)	ND (180)	ND (340)	ND (33)	ND (110)	ND (67)	ND (240)
O-XYLENE	ND (97)	ND (0.81)	ND (61)	ND (92)	ND (170)	ND (16)	ND (55)	ND (34)	ND (120)
SW-846 8260C (mg/L) 1311 TCLP ZHE									
BENZENE	NT	NT	0.46	0.77	NT	ND (0.050)	0.28	0.78	0.47
SW-846 8270D (mg/Kg dry)									
ACENAPHTHENE	170	3.5	NT	23	NT	0.81	83	12	8.7
ACENAPHTHYLENE	1300	16	NT	280	NT	8.8	1100	34	75
ACETOPHENONE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
ANILINE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
ANTHRACENE	1200	25	NT	230	NT	8.6	970	45	82
BENZO(A)ANTHRACENE	1200	37	NT	220	NT	9.8	880	53	92
BENZO(A)PYRENE	940	28	NT	180	NT	7.2	690	39	69
BENZO(B)FLUORANTHENE	1200	34	NT	210	NT	8.7	930	49	88
BENZO(G,H,I)PERYLENE	380	8.7	NT	62	NT	3.0	210	16	34
BENZO(K)FLUORANTHENE	470	11	NT	77	NT	3.3	320	17	31
BIS(2-CHLOROETHOXY)METHANE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
BIS(2-CHLOROETHYL)ETHER	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
BIS(2-CHLOROISOPROPYL)ETHER	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
BIS(2-ETHYLHEXYL)PHTHALATE	NT	ND (2.0)	NT	ND (4.0)	NT	10	ND (40)	ND (2.1)	ND (3.7)
4-BROMOPHENYL PHENYL ETHER	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
BUTYLBENZYLPHTHALATE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
4-CHLOROANILINE	NT	ND (3.9)	NT	ND (7.8)	NT	ND (0.85)	ND (77)	ND (4.1)	ND (7.2)
2-CHLORONAPHTHALENE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
2-CHLOROPHENOL	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
CHRYSENE	980	30	NT	190	NT	7.8	740	45	76
DIBENZ(A,H)ANTHRACENE	140	3.5	NT	22	NT	1.0	80	5.7	11
DIBENZOFURAN	NT	15	NT	200	NT	ND (8.8)	850	37	71
DI-N-BUTYLPHTHALATE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
1,2-DICHLOROBENZENE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
1,3-DICHLOROBENZENE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
1,4-DICHLOROBENZENE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
3,3'-DICHLOROBENZIDINE	NT	ND (1.0)	NT	ND (2.0)	NT	ND (0.22)	ND (20)	ND (1.1)	ND (1.9)
2,4-DICHLOROPHENOL	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
DIETHYLPHTHALATE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
2,4-DIMETHYLPHENOL	NT	ND (2.0)	NT	13	NT	0.61	64	2.8	4.6
DIMETHYLPHTHALATE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
2,4-DINITROPHENOL	NT	ND (3.9)	NT	ND (7.8)	NT	ND (0.85)	ND (77)	ND (4.1)	ND (7.2)
2,4-DINITROTOLUENE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
2,6-DINITROTOLUENE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
DI-N-OCTYLPHTHALATE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
FLUORANTHENE	3200	90	NT	600	NT	26	2400	130	240
FLUORENE	1800	31	NT	330	NT	13	1300	60	120
HEXACHLOROBENZENE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
HEXACHLOROBUTADIENE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
HEXACHLOROETHANE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
INDENO(1,2,3-CD)PYRENE	NT	9.8	NT	69	NT	3.2	220	16	36
ISOPHORONE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
2-METHYLNAPHTHALENE	450	12	NT	290	NT	9.9	1200	44	84
O-CRESOL	1400	ND (2.0)	NT	25	NT	1.1	66	3.1	4.1
M/P-CRESOL	NT	ND (2.0)	NT	68	NT	2.5	190	9.3	12
NAPHTHALENE	6000	51	NT	1400	NT	38	5300	220	390
NITROBENZENE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
2-NITROPHENOL	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
4-NITROPHENOL	NT	ND (3.9)	NT	ND (7.8)	NT	ND (0.85)	ND (77)	ND (4.1)	ND (7.2)
PENTACHLOROPHENOL	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
PHENANTHRENE	5200	110	NT	940	NT	38	3700	190	340
PHENOL	NT	ND (2.0)	NT	89	NT	2.9	180	11	12
PYRENE	2200	62	NT	440	NT	17	1500	100	160
1,2,4-TRICHLOROBENZENE	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
2,4,5-TRICHLOROPHENOL	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)
2,4,6-TRICHLOROPHENOL	NT	ND (2.0)	NT	ND (4.0)	NT	ND (0.44)	ND (40)	ND (2.1)	ND (3.7)

Table 9.1
Summary of Soil Analytical Data:
RGP-345

Parameter	SAMPLING LOCATION								
	RGP-3,4,5	**RGP-345-SP1**	**RGP-345-SP-1A**	**RGP-345-SP2**	**RGP-345-SP-2A**	**RGP-345-SP12A**	**RGP-345-SP12B**	**RGP-345-SP3**	**RGP-345-SP4**
Sampling Date	1/7/2016	1/14/2016	1/29/2016	1/14/2016	1/29/2016	2/4/2016	2/4/2016	1/15/2016	2/23/2016
Sample Depth	Representative	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile
SW-846 9014 (mg/Kg)									
REACTIVE CYANIDE	ND (3.9)	ND (3.9)	ND (3.9)	ND (3.9)	ND (3.9)	ND (4.0)	ND (4.0)	ND (4.0)	ND (3.9)
SW-846 9030A (mg/Kg)									
REACTIVE SULFIDE	ND (20)	ND (20)	ND (19)	ND (20)	ND (19)	ND (20)	ND (20)	ND (20)	ND (19)
SW-846 9045C (pH Units)									
PH	8.0	7.6	NT	8.4	NT	8.6	12.0	9.5	8.0
SW-846 8082A (mg/Kg dry)									
PCB 1016	ND (0.12)	ND (0.12)	NT	ND (0.12)	NT	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.11)
PCB 1221	ND (0.12)	ND (0.12)	NT	ND (0.12)	NT	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.11)
PCB 1232	ND (0.12)	ND (0.12)	NT	ND (0.12)	NT	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.11)
PCB 1242	ND (0.12)	ND (0.12)	NT	ND (0.12)	NT	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.11)
PCB 1248	ND (0.12)	ND (0.12)	NT	ND (0.12)	NT	ND (0.13)	ND (0.12)	0.35	ND (0.11)
PCB 1254	ND (0.12)	ND (0.12)	NT	ND (0.12)	NT	ND (0.13)	ND (0.12)	0.68	ND (0.11)
PCB 1260	ND (0.12)	ND (0.12)	NT	ND (0.12)	NT	ND (0.13)	ND (0.12)	0.23	ND (0.11)
PCB 1262	ND (0.12)	ND (0.12)	NT	ND (0.12)	NT	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.11)
PCB 1268	ND (0.12)	ND (0.12)	NT	ND (0.12)	NT	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.11)
TOTAL PCBs	None detected	None detected		None detected		None detected	None detected	1.26	None detected
SW-846 8151A (µg/kg dry)									
2,4-D	NT	NT	NT	NT	NT	NT	NT	NT	ND (250)
2,4-DB	NT	NT	NT	NT	NT	NT	NT	NT	ND (250)
2,4,5-TP (SILVEX)	NT	NT	NT	NT	NT	NT	NT	NT	ND (25)
2,4,5-T	NT	NT	NT	NT	NT	NT	NT	NT	ND (25)
DALAPON	NT	NT	NT	NT	NT	NT	NT	NT	ND (640)
DICAMBA	NT	NT	NT	NT	NT	NT	NT	NT	ND (25)
DICHLOROPROP	NT	NT	NT	NT	NT	NT	NT	NT	ND (250)
DINOSEB	NT	NT	NT	NT	NT	NT	NT	NT	ND (130)
MCPA	NT	NT	NT	NT	NT	NT	NT	NT	ND (25000)
MCPP	NT	NT	NT	NT	NT	NT	NT	NT	ND (25000)
SW-846 8081B (µg/L) 1311 TCLP EXT									
CHLORDANE									
SW-846 6010C-D (mg/Kg dry) Metals Digestion									
COPPER									
SW-846 8100 Modified (mg/Kg dry)									
TPH									
SW-846 8260C (mg/Kg dry)									
BENZENE									
SW-846 8260C(2) (mg/Kg dry)									
NAPHTHALENE									
SW-846 8260C(4) (mg/L) 1311 TCLP ZHE Modified									
BENZENE									
2-BUTANONE (MEK)									
CARBON TETRACHLORIDE									
CHLOROBENZENE									
CHLOROFORM									
1,4-DICHLOROBENZENE									
1,2-DICHLOROETHANE									
1,1-DICHLOROETHYLENE									
TETRACHLOROETHYLENE									
TRICHLOROETHYLENE									
VINYL CHLORIDE									
NOTES:									
1. ND = Not detected above the lab									
reporting limits showin in parenthesis.									
2. NT = Not tested.									

Table 9.1
Summary of Soil Analytical Data:
RGP-345

Parameter	Sample Locations								
	RGP-345-SP5	RGP-345-SP6	RGP-345-SP7	RGP-345-SP8	RGP-345-SP9	RGP-345-SP10	RGP-345-SP11	RGP-345-SP12	RGP-345-SP-456
Sampling Date	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/3/2016	3/3/2016	3/3/2016	3/4/2016	3/28/2016
Sample Depth	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile
SM 2540G (% Wt)									
% Solids	89.6	87.5	91.6	87.3	89.5	86.2	82.6	91.0	88.1
SM21-22 2510B Modified (µmhos/cm)									
SPECIFIC CONDUCTANCE	25	4.8	4.6	6.0	8.4	7.8	5.6	58	
SW-846 1010A (°F)									
FLASHPOINT	NT	NT	NT	NT	NT	NT	NT	NT	
SW-846 1030 (present/absent)									
IGNITABILITY	Present	Present	Present	Present	Present	Present	Present	Present	
SW-846 6010C (mg/Kg dry)									
ANTIMONY	ND (2.7)	ND (2.7)	3.3	ND (2.8)	ND (2.6)	ND (2.9)	ND (2.7)	ND (2.7)	
ARSENIC	3.7	6.2	9.2	4.1	5.4	5.7	6.3	ND (2.7)	
BARIUM	23	18	68	28	26	17	35	17	
BERYLLIUM	ND (0.27)	ND (0.27)	0.49	ND (0.26)	0.48	ND (0.29)	ND (0.27)	ND (0.27)	
CADMIUM	0.92	0.92	0.71	0.57	0.87	0.81	0.86	0.38	
CHROMIUM	5.4	3.4	10	7.4	5.3	4.8	3.2	3.3	
LEAD	48	48	22	47	43	29	31	31	
NICKEL	6.6	2.7	5.7	9.6	10	3.7	2.6	4.5	
SELENIUM	ND (5.3)	ND (5.4)	12	12	ND (5.2)	ND (5.8)	ND (5.4)	ND (5.4)	
SILVER	ND (0.53)	ND (0.54)	1.0	ND (0.57)	ND (0.52)	ND (0.58)	ND (0.54)	ND (0.54)	
THALLIUM	ND (2.7)	ND (2.7)	ND (2.6)	ND (2.6)	ND (2.6)	ND (2.9)	ND (2.7)	ND (2.7)	
VANADIUM	20	5.9	18	24	23	7.1	6.6	12	
ZINC	54	48	31	42	42	37	35	29	
SW-846 7471B (mg/Kg dry)									
MERCURY	0.084	ND (0.028)	0.073	0.088	0.061	0.057	0.043	0.10	
SW-846 6010C (mg/L) 1311 TCLP EXT									
LEAD	0.14	0.13	0.19	0.89	ND (0.010)	ND (0.010)	ND (0.010)	0.32	
SW-846 8100 Modified (mg/Kg dry)									
TPH	63000	75000	65000	63000	49000	87000	100000	150000	
SW-846 8081B (mg/Kg dry)									
ALDRIN	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
ALPHA-BHC	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
BETA-BHC	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
DELTA-BHC	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
GAMMA-BHC (LINDANE)	ND (0.044)	ND (0.044)	ND (0.042)	ND (0.044)	ND (0.044)	ND (0.045)	ND (0.045)	ND (0.043)	
CHLORDANE	0.74	ND (0.44)	0.99	2.4	ND (0.44)	ND (0.45)	ND (0.45)	ND (0.43)	
4,4'-DDD	ND (0.088)	ND (0.088)	0.11	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.086)	
4,4'-DDE	ND (0.088)	ND (0.088)	ND (0.083)	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.086)	
4,4'-DDT	0.18	ND (0.088)	ND (0.083)	0.14	ND (0.089)	ND (0.089)	ND (0.089)	0.092	
DIELDRIN	ND (0.088)	ND (0.088)	ND (0.083)	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.089)	ND (0.086)	
ENDOSULFAN I	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
ENDOSULFAN II	ND (0.18)	ND (0.18)	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.17)	
ENDOSULFAN SULFATE	0.35	0.48	0.51	1.0	0.35	0.35	0.46	0.38	
ENDRIN	ND (0.18)	ND (0.18)	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.17)	
ENDRIN KETONE	ND (0.18)	ND (0.18)	ND (0.17)	0.21	ND (0.18)	ND (0.18)	ND (0.18)	ND (0.17)	
HEPTACHLOR	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
HEPTACHLOR EPOXIDE	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
HEXACHLOROBENZENE	ND (0.13)	ND (0.13)	ND (0.12)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	ND (0.13)	
METHOXYCHLOR	ND (1.1)	ND (1.1)	ND (1.0)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	
SW-846 8260C (mg/Kg dry)									
ACETONE	ND (4100)	ND (12000)	ND (4400)	ND (6000)	ND (6200)	ND (5400)	ND (5300)	ND (2500)	
TERT-AMYLMETHYL ETHER	ND (41)	ND (120)	ND (44)	ND (60)	ND (62)	ND (54)	ND (53)	ND (25)	
BENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	130	ND (110)	68	
BROMOBENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
BROMOCHLOROMETHANE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
BROMODICHLOROMETHANE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
BROMOFORM	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
BROMOMETHANE	ND (160)	ND (500)	ND (180)	ND (240)	ND (250)	ND (220)	ND (210)	ND (99)	
2-BUTANONE (MEK)	ND (1600)	ND (5000)	ND (1800)	ND (2400)	ND (2500)	ND (2200)	ND (2100)	ND (990)	
N-BUTYLBENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
SEC-BUTYLBENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
TERT-BUTYLBENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
TERT-BUTYLETHYL ETHER	ND (41)	ND (120)	ND (44)	ND (60)	ND (62)	ND (54)	ND (53)	ND (25)	
CARBON DISULFIDE	ND (820)	ND (2500)	ND (880)	ND (1200)	ND (1200)	ND (1100)	ND (1100)	ND (500)	
CARBON TETRACHLORIDE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
CHLOROBENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
CHLORODIBROMOMETHANE	ND (41)	ND (120)	ND (44)	ND (60)	ND (62)	ND (54)	ND (53)	ND (25)	
CHLOROETHANE	ND (160)	ND (500)	ND (180)	ND (240)	ND (250)	ND (220)	ND (210)	ND (99)	
CHLOROFORM	ND (160)	ND (500)	ND (180)	ND (240)	ND (250)	ND (220)	ND (210)	ND (99)	
CHLOROMETHANE	ND (160)	ND (500)	ND (180)	ND (240)	ND (250)	ND (220)	ND (210)	ND (99)	
2-CHLOROTOLUENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
4-CHLOROTOLUENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
1,2-DIBROMO-3-CHLOROPROPANE	ND (330)	ND (990)	ND (350)	ND (480)	ND (500)	ND (430)	ND (420)	ND (200)	
1,2-DIBROMOETHANE (EDB)	ND (41)	ND (120)	ND (44)	ND (60)	ND (62)	ND (54)	ND (53)	ND (25)	
DIBROMOMETHANE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
1,2-DICHLOROBENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
1,3-DICHLOROBENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
1,4-DICHLOROBENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
DICHLORODIFLUOROMETHANE	ND (160)	ND (500)	ND (180)	ND (240)	ND (250)	ND (220)	ND (210)	ND (99)	
1,1-DICHLOROETHANE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
1,2-DICHLOROETHANE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
1,1-DICHLOROETHYLENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
CIS-1,2-DICHLOROETHYLENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
TRANS-1,2-DICHLOROETHYLENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
1,2-DICHLOROPROPANE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
1,3-DICHLOROPROPANE	ND (41)	ND (120)	ND (44)	ND (60)	ND (62)	ND (54)	ND (53)	ND (25)	
2,2-DICHLOROPROPANE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
1,1-DICHLOROPROPENE	ND (160)	ND (500)	ND (180)	ND (240)	ND (250)	ND (220)	ND (210)	ND (99)	
CIS-1,3-DICHLOROPROPENE	ND (41)	ND (120)	ND (44)	ND (60)	ND (62)	ND (54)	ND (53)	ND (25)	
TRANS-1,3-DICHLOROPROPENE	ND (41)	ND (120)	ND (44)	ND (60)	ND (62)	ND (54)	ND (53)	ND (25)	
DIETHYL ETHER	ND (160)	ND (500)	ND (180)	ND (240)	ND (250)	ND (220)	ND (210)	ND (99)	

Table 9.1
Summary of Soil Analytical Data:
RGP-345

Parameter	Sample Locations								
	RGP-345-SP5	RGP-345-SP6	RGP-345-SP7	RGP-345-SP8	RGP-345-SP9	RGP-345-SP10	RGP-345-SP11	RGP-345-SP12	RGP-345-SP-456
Sampling Date	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/3/2016	3/3/2016	3/3/2016	3/4/2016	3/28/2016
Sample Depth	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile
DIISOPROPYL ETHER	ND (41)	ND (120)	ND (44)	ND (60)	ND (62)	ND (54)	ND (53)	ND (25)	
1,4-DIOXANE	ND (4100)	ND (12000)	ND (4400)	ND (6000)	ND (6200)	ND (5400)	ND (5300)	ND (2500)	
ETHYLBENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
HEXACHLOROBUTADIENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
2-HEXANONE	ND (820)	ND (2500)	ND (880)	ND (1200)	ND (1200)	ND (1100)	ND (1100)	ND (500)	
ISOPROPYLBENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
P-ISOPROPYLTOLUENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
METHYL TERT-BUTYL ETHER (MTBE)	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
METHYLENE CHLORIDE	ND (410)	ND (1200)	ND (440)	ND (600)	ND (620)	ND (540)	ND (530)	ND (250)	
4-METHYL-2-PENTANONE (MIBK)	ND (820)	ND (2500)	ND (880)	ND (1200)	ND (1200)	ND (1100)	ND (1100)	ND (500)	
NAPHTHALENE	6800	21000	8700	11000	8300	8900	6600	10000	
N-PROPYLBENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
STYRENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	53	
1,1,1,2-TETRACHLOROETHANE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
1,1,2,2-TETRACHLOROETHANE	ND (41)	ND (120)	ND (44)	ND (60)	ND (62)	ND (54)	ND (53)	ND (25)	
TETRACHLOROETHYLENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
TETRAHYDROFURAN	ND (330)	ND (990)	ND (350)	ND (480)	ND (500)	ND (430)	ND (420)	ND (200)	
TOLUENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	140	ND (110)	91	
1,2,3-TRICHLOROBENZENE	ND (330)	ND (990)	ND (350)	ND (480)	ND (500)	ND (430)	ND (420)	ND (200)	
1,2,4-TRICHLOROBENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
1,1,1-TRICHLOROETHANE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
1,1,2-TRICHLOROETHANE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
TRICHLOROETHYLENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
TRICHLOROFLUOROMETHANE	ND (160)	ND (500)	ND (180)	ND (240)	ND (250)	ND (220)	ND (210)	ND (99)	
1,2,3-TRICHLOROPROPANE	ND (160)	ND (500)	ND (180)	ND (240)	ND (250)	ND (220)	ND (210)	ND (99)	
1,2,4-TRIMETHYLBENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
1,3,5-TRIMETHYLBENZENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
VINYL CHLORIDE	ND (160)	ND (500)	ND (180)	ND (240)	ND (250)	ND (220)	ND (210)	ND (99)	
M/P-XYLENE	ND (160)	ND (500)	ND (180)	ND (240)	ND (250)	ND (220)	ND (210)	ND (99)	
O-XYLENE	ND (82)	ND (250)	ND (88)	ND (120)	ND (120)	ND (110)	ND (110)	ND (50)	
SW-846 8260C (mg/L) 1311 TCLP ZHE									
BENZENE	0.83	0.75	0.79	1.2	1.1	1.8	1.2	0.94	
SW-846 8270D (mg/Kg dry)									
ACENAPHTHENE	190	320	260	170	130	210	250	140	44
ACENAPHTHYLENE	2100	3400	2700	1800	1300	3000	2600	1700	530
ACETOPHENONE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
ANILINE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (25)
ANTHRACENE	2000	3500	2700	1600	910	2600	2600	1600	ND (25)
BENZO(A)ANTHRACENE	1900	3300	2600	1600	1100	2700	2500	1600	ND (25)
BENZO(A)PYRENE	1400	2200	1800	1200	820	1900	1700	1100	ND (25)
BENZO(B)FLUORANTHENE	1700	2900	2200	1500	1000	2100	2000	1200	ND (25)
BENZO(G,H,I)PERYLENE	630	1000	810	540	350	920	740	440	ND (25)
BENZO(K)FLUORANTHENE	700	1100	870	550	360	790	830	550	ND (25)
BIS(2-CHLOROETHOXY)METHANE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
BIS(2-CHLOROETHYL)ETHER	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
BIS(2-CHLOROISOPROPYL)ETHER	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
BIS(2-ETHYLHEXYL)PHTHALATE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
4-BROMOPHENYL PHENYL ETHER	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
BUTYLBENZYLPHTHALATE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
4-CHLOROANILINE	ND (73)	ND (75)	ND (70)	ND (76)	ND (150)	ND (230)	ND (220)	ND (72)	ND (50)
2-CHLORONAPHTHALENE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
2-CHLOROPHENOL	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
CHRYSENE	1600	2700	2100	1300	840	2200	2000	1300	ND (25)
DIBENZ(A,H)ANTHRACENE	240	450	310	210	100	220	230	140	ND (25)
DIBENZOFURAN	1900	3200	2500	1600	1100	2500	ND (2800)	1500	230
DI-N-BUTYLPHTHALATE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
1,2-DICHLOROBENZENE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (25)
1,3-DICHLOROBENZENE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (25)
1,4-DICHLOROBENZENE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (25)
3,3'-DICHLOROBENZIDINE	ND (19)	ND (19)	ND (18)	ND (19)	ND (37)	ND (59)	ND (57)	ND (19)	ND (50)
2,4-DICHLOROPHENOL	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
DIETHYLPHTHALATE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
2,4-DIMETHYLPHENOL	170	290	200	140	100	140	240	110	2000
DIMETHYLPHTHALATE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
2,4-DINITROPHENOL	ND (73)	ND (75)	ND (70)	ND (76)	ND (150)	ND (230)	ND (220)	ND (72)	ND (50)
2,4-DINITROTOLUENE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
2,6-DINITROTOLUENE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
DI-N-OCTYLPHTHALATE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
FLUORANTHENE	4700	8600	6800	4600	2800	7100	5900	3900	27
FLUORENE	2900	5200	4000	2600	1800	3700	3900	2300	250
HEXACHLOROBENZENE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
HEXACHLOROBUTADIENE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
HEXACHLOROETHANE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
INDENO(1,2,3-CD)PYRENE	690	1100	900	630	390	990	820	610	ND (25)
ISOPHORONE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
2-METHYLNAPHTHALENE	2100	4100	3100	2000	1600	3200	3200	1800	490
O-CRESOL	210	310	200	160	110	150	270	96	2200
M/P-CRESOL	630	880	550	430	320	490	710	330	6400
NAPHTHALENE	11000	21000	15000	11000	8000	19000	16000	8300	9000
NITROBENZENE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
2-NITROPHENOL	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
4-NITROPHENOL	ND (73)	ND (75)	ND (70)	ND (76)	ND (150)	ND (230)	ND (220)	ND (72)	ND (50)
PENTACHLOROPHENOL	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
PHENANTHRENE	7500	14000	11000	7200	5000	11000	10000	6400	230
PHENOL	640	890	450	410	300	590	680	320	5500
PYRENE	3300	5800	4400	3000	2300	5200	4800	2800	ND (25)
1,2,4-TRICHLOROBENZENE	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (25)
2,4,5-TRICHLOROPHENOL	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)
2,4,6-TRICHLOROPHENOL	ND (37)	ND (39)	ND (36)	ND (39)	ND (75)	ND (120)	ND (110)	ND (37)	ND (50)

Table 9.1
Summary of Soil Analytical Data:
RGP-345

Parameter	Sample Locations								
	RGP-345-SP5	RGP-345-SP6	RGP-345-SP7	RGP-345-SP8	RGP-345-SP9	RGP-345-SP10	RGP-345-SP11	RGP-345-SP12	RGP-345-SP-456
Sampling Date	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/3/2016	3/3/2016	3/3/2016	3/4/2016	3/28/2016
Sample Depth	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile
SW-846 9014 (mg/Kg)									
REACTIVE CYANIDE	ND (3.9)	ND (4.0)	ND (4.0)	ND (3.9)	ND (4.0)	ND (3.9)	ND (3.9)	ND (3.9)	
SW-846 9030A (mg/Kg)									
REACTIVE SULFIDE	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	
SW-846 9045C (pH Units)									
PH	8.8	9.3	9.5	10	10	11	8.9	8.4	
SW-846 8082A (mg/Kg dry)									
PCB 1016	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
PCB 1221	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
PCB 1232	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
PCB 1242	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
PCB 1248	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
PCB 1254	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
PCB 1260	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
PCB 1262	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
PCB 1268	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	
TOTAL PCBs	None detected	None detected	None detected	None detected	None detected	None detected	None detected	None detected	
SW-846 8151A (µg/kg dry)									
2,4-D	ND (550)	ND (560)	ND (540)	ND (560)	ND (28)	ND (28)	ND (29)	ND (5000)	
2,4-DB	ND (550)	ND (560)	ND (540)	ND (560)	ND (28)	ND (28)	ND (29)	ND (5000)	
2,4,5-TP (SILVEX)	ND (55)	ND (56)	ND (54)	ND (56)	ND (2.8)	ND (2.8)	ND (2.9)	ND (500)	
2,4,5-T	ND (55)	ND (56)	ND (54)	ND (56)	ND (2.8)	ND (2.8)	ND (2.9)	ND (500)	
DALAPON	ND (1400)	ND (1400)	ND (1300)	ND (1400)	ND (69)	ND (71)	ND (72)	ND (12000)	
DICAMBA	ND (55)	ND (56)	ND (54)	ND (56)	ND (2.8)	ND (2.8)	ND (2.9)	ND (500)	
DICHLOROPROP	ND (550)	ND (560)	ND (540)	ND (560)	ND (28)	ND (28)	ND (29)	ND (5000)	
DINOSEB	ND (280)	ND (280)	ND (270)	ND (280)	ND (14)	ND (14)	ND (14)	ND (2500)	
MCPA	ND (55000)	ND (56000)	ND (54000)	ND (56000)	ND (2800)	ND (2800)	ND (2900)	ND (500000)	
MCPP	ND (55000)	ND (56000)	ND (54000)	ND (56000)	ND (2800)	ND (2800)	ND (2900)	ND (500000)	
SW-846 8081B (µg/L) 1311 TCLP EXT									
CHLORDANE	ND (2.0)		ND (2.0)	ND (2.0)					
SW-846 6010C-D (mg/Kg dry) Metals Digestion									
COPPER									9.2
SW-846 8100 Modified (mg/Kg dry)									
TPH									130000
SW-846 8260C (mg/Kg dry)									
BENZENE									
SW-846 8260C(2) (mg/Kg dry)									
NAPHTHALENE									
SW-846 8260C(4) (mg/L) 1311 TCLP ZHE Modified									
BENZENE									
2-BUTANONE (MEK)									
CARBON TETRACHLORIDE									
CHLOROBENZENE									
CHLOROFORM									
1,4-DICHLOROBENZENE									
1,2-DICHLOROETHANE									
1,1-DICHLOROETHYLENE									
TETRACHLOROETHYLENE									
TRICHLOROETHYLENE									
VINYL CHLORIDE									
NOTES:									
1. ND = Not detected above the lab									
reporting limits showin in parenthesis.									
2. NT = Not tested.									

Table 9.1
Summary of Soil Analytical Data:
RGP-345

Parameter	Sample Locations							
	RGP-345-G	RGP-345-G2	RGP-345-G-1A	RGP-345-G-2A	RGP-345-B21-SPE	RGP-345-B21-SPE	RGP-345-B21-SPW	RGP-345-B21-SPW
Sampling Date	5/12/2016	5/17/2016	5/18/2016	5/18/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016
Sample Depth	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile
SM 2540G (% Wt)								
% Solids	96.3	80.8	92.5	90.1	85.9	85.9	66.0	66.0
SM21-22 2510B Modified (µmhos/cm)								
SPECIFIC CONDUCTANCE	3.6				23	NT	11	NT
SW-846 1010A (°F)								
FLASHPOINT								
SW-846 1030 (present/absent)								
IGNITABILITY	Present				Absent	NT	Absent	NT
SW-846 6010C (mg/Kg dry)								
ANTIMONY	ND (2.5)				ND (2.8)	NT	ND (3.6)	NT
ARSENIC	7.2				ND (2.8)	NT	ND (3.6)	NT
BARIUM	13				100	NT	51	NT
BERYLLIUM	ND (0.24)				ND (0.28)	NT	ND (0.36)	NT
CADMIUM	0.84				1.3	NT	0.63	NT
CHROMIUM	1.5				15	NT	12	NT
LEAD	36				280	NT	61	NT
NICKEL	1.4				29	NT	10	NT
SELENIUM	ND (4.9)				ND (5.6)	NT	ND (7.1)	NT
SILVER	ND (0.49)				ND (0.56)	NT	ND (0.71)	NT
THALLIUM	ND (2.5)				ND (2.8)	NT	ND (3.6)	NT
VANADIUM	2.6				56	NT	22	NT
ZINC	41				130	NT	100	NT
SW-846 7471B (mg/Kg dry)								
MERCURY	0.077				0.26	NT	0.064	NT
SW-846 6010C (mg/L) 1311 TCLP EXT								
LEAD	0.015				0.75	NT	0.056	NT
SW-846 8100 Modified (mg/Kg dry)								
TPH								
SW-846 8081B (mg/Kg dry)								
ALDRIN	ND (0.10) *		ND (1.0) *	ND (1.1) *				
ALPHA-BHC	ND (0.10)		ND (1.0)	ND (1.1)				
BETA-BHC	ND (0.10)		ND (1.0)	ND (1.1)				
DELTA-BHC	ND (0.10)		ND (1.0)	ND (1.1)				
GAMMA-BHC (LINDANE)	ND (0.042) *		ND (0.42) *	ND (0.44) *				
CHLORDANE	3.3		ND (4.2)	ND (4.4)				
4,4'-DDD	ND (0.083)		ND (0.84)	ND (0.89)				
4,4'-DDE	ND (0.083)		ND (0.84)	ND (0.89)				
4,4'-DDT	0.14		ND (0.84)	ND (0.89)				
DIELDRIN	ND (0.083) *		ND (0.84) *	ND (0.89) *				
ENDOSULFAN I	ND (0.10)		ND (1.0) *	ND (1.1) *				
ENDOSULFAN II	ND (0.17)		ND (1.7) *	ND (1.8) *				
ENDOSULFAN SULFATE	0.84		ND (1.7)	ND (1.8)				
ENDRIN	ND (0.17)		ND (1.7)	ND (1.8)				
ENDRIN KETONE	ND (0.17)		ND (1.7)	ND (1.8)				
HEPTACHLOR	ND (0.10)		ND (1.0) *	ND (1.1) *				
HEPTACHLOR EPOXIDE	ND (0.10)		ND (1.0) *	ND (1.1) *				
HEXACHLOROBENZENE	ND (0.12)		ND (1.3) *	ND (1.3) *				
METHOXYCHLOR	ND (1.0)		ND (10)	ND (11)				
SW-846 8260C (mg/Kg dry)								
ACETONE	ND (5000) *				NT	ND (0.14)	NT	ND (190) *
TERT-AMYLMETHYL ETHER	ND (50)				NT	ND (0.0014)	NT	ND (1.9)
BENZENE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
BROMOBENZENE	ND (99)				NT	ND (0.0027)	NT	ND (3.9)
BROMOCHLOROMETHANE	ND (99)				NT	ND (0.0027)	NT	ND (3.9)
BROMODICHLOROMETHANE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
BROMOFORM	ND (99) *				NT	ND (0.014)	NT	ND (3.9) *
BROMOMETHANE	ND (500) *				NT	ND (0.014)	NT	ND (7.7) *
2-BUTANONE (MEK)	ND (2000) *				NT	ND (0.055)	NT	ND (77) *
N-BUTYLBENZENE	ND (99)				NT	ND (0.0027)	NT	ND (3.9)
SEC-BUTYLBENZENE	ND (99)				NT	ND (0.0027)	NT	ND (3.9)
TERT-BUTYLBENZENE	ND (99)				NT	ND (0.0027)	NT	ND (3.9)
TERT-BUTYLETHYL ETHER	ND (50)				NT	ND (0.0014)	NT	ND (1.9)
CARBON DISULFIDE	ND (990) *				NT	ND (0.0082)	NT	ND (39)
CARBON TETRACHLORIDE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9)
CHLOROBENZENE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
CHLORODIBROMOMETHANE	ND (50) *				NT	ND (0.0014)	NT	ND (1.9) *
CHLOROETHANE	ND (200) *				NT	ND (0.014)	NT	ND (7.7)
CHLOROFORM	ND (200) *				NT	ND (0.0055)	NT	ND (7.7) *
CHLOROMETHANE	ND (500) *				NT	ND (0.014)	NT	ND (7.7)
2-CHLOROTOLUENE	ND (99)				NT	ND (0.0027)	NT	ND (3.9)
4-CHLOROTOLUENE	ND (99)				NT	ND (0.0027)	NT	ND (3.9)
1,2-DIBROMO-3-CHLOROPROPANE	ND (400) *				NT	ND (0.014)	NT	ND (15) *
1,2-DIBROMOETHANE (EDB)	ND (50) *				NT	ND (0.0014)	NT	ND (1.9) *
DIBROMOMETHANE	ND (99)				NT	ND (0.0027)	NT	ND (3.9)
1,2-DICHLOROBENZENE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9)
1,3-DICHLOROBENZENE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
1,4-DICHLOROBENZENE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
DICHLORODIFLUOROMETHANE	ND (200)				NT	ND (0.014)	NT	ND (7.7)
1,1-DICHLOROETHANE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
1,2-DICHLOROETHANE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
1,1-DICHLOROETHYLENE	ND (99) *				NT	ND (0.0055)	NT	ND (3.9) *
CIS-1,2-DICHLOROETHYLENE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
TRANS-1,2-DICHLOROETHYLENE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
1,2-DICHLOROPROPANE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
1,3-DICHLOROPROPANE	ND (50)				NT	ND (0.0014)	NT	ND (1.9)
2,2-DICHLOROPROPANE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
1,1-DICHLOROPROPENE	ND (200) *				NT	ND (0.0027)	NT	ND (7.7) *
CIS-1,3-DICHLOROPROPENE	ND (50) *				NT	ND (0.0014)	NT	ND (1.9) *
TRANS-1,3-DICHLOROPROPENE	ND (50) *				NT	ND (0.0014)	NT	ND (1.9) *
DIETHYL ETHER	ND (200) *				NT	ND (0.014)	NT	ND (7.7)

Table 9.1
Summary of Soil Analytical Data:
RGP-345

Parameter	Sample Locations							
	RGP-345-G	RGP-345-G2	RGP-345-G-1A	RGP-345-G-2A	RGP-345-B21-SPE	RGP-345-B21-SPE	RGP-345-B21-SPW	RGP-345-B21-SPW
Sampling Date	5/12/2016	5/17/2016	5/18/2016	5/18/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016
Sample Depth	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile
DIISOPROPYL ETHER	ND (50)				NT	ND (0.0014)	NT	ND (1.9)
1,4-DIOXANE	ND (9900) *				NT	ND (0.14)	NT	ND (190) *
ETHYLBENZENE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9)
HEXACHLOROBUTADIENE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9)
2-HEXANONE	ND (990) *				NT	ND (0.027)	NT	ND (39)
ISOPROPYLBENZENE	ND (99)				NT	ND (0.0027)	NT	ND (3.9)
P-ISOPROPYLTOLUENE	ND (99)				NT	ND (0.0027)	NT	ND (3.9)
METHYL TERT-BUTYL ETHER (MTBE)	ND (99) *				NT	ND (0.0055)	NT	ND (3.9) *
METHYLENE CHLORIDE	ND (500) *				NT	ND (0.014)	NT	ND (19) *
4-METHYL-2-PENTANONE (MIBK)	ND (990) *				NT	ND (0.027)	NT	ND (39) *
NAPHTHALENE	4000				NT	1.2	NT	440
N-PROPYLBENZENE	ND (99)				NT	ND (0.0027)	NT	ND (3.9)
STYRENE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
1,1,1,2-TETRACHLOROETHANE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
1,1,2,2-TETRACHLOROETHANE	ND (50) *				NT	ND (0.0014)	NT	ND (1.9) *
TETRACHLOROETHYLENE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
TETRAHYDROFURAN	ND (400)				NT	ND (0.014)	NT	ND (15)
TOLUENE	ND (99) *				NT	0.0033	NT	ND (3.9)
1,2,3-TRICHLOROBENZENE	ND (400)				NT	ND (0.014)	NT	ND (15)
1,2,4-TRICHLOROBENZENE	ND (99) *				NT	ND (0.014)	NT	ND (3.9) *
1,1,1-TRICHLOROETHANE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9)
1,1,2-TRICHLOROETHANE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
TRICHLOROETHYLENE	ND (99) *				NT	ND (0.0027)	NT	ND (3.9) *
TRICHLOROFLUOROMETHANE	ND (200)				NT	ND (0.014)	NT	ND (7.7)
1,2,3-TRICHLOROPROPANE	ND (200) *				NT	ND (0.0055)	NT	ND (7.7)
1,2,4-TRIMETHYLBENZENE	ND (99)				NT	0.0044	NT	ND (3.9)
1,3,5-TRIMETHYLBENZENE	ND (99) *				NT	0.0029	NT	ND (3.9)
VINYL CHLORIDE	ND (200) *				NT	ND (0.014)	NT	ND (7.7) *
M/P-XYLENE	ND (200) *				NT	0.0083	NT	ND (7.7)
O-XYLENE	ND (99)				NT	0.0032	NT	ND (3.9)
SW-846 8260C (mg/L) 1311 TCLP ZHE								
BENZENE	0.37							
SW-846 8270D (mg/Kg dry)								
ACENAPHTHENE	320				1.8	NT	7.7	NT
ACENAPHTHYLENE	4000				5.9	NT	56	NT
ACETOPHENONE	ND (16)				ND (0.40)	NT	ND (1.0)	NT
ANILINE	ND (16)				ND (0.40)	NT	ND (1.0)	NT
ANTHRACENE	4400				10	NT	66	NT
BENZO(A)ANTHRACENE	3900				15	NT	64	NT
BENZO(A)PYRENE	2600				12	NT	44	NT
BENZO(B)FLUORANTHENE	3400				14	NT	54	NT
BENZO(G,H,I)PERYLENE	1600				5.6	NT	21	NT
BENZO(K)FLUORANTHENE	1100				5.7	NT	21	NT
BIS(2-CHLOROETHOXY)METHANE	ND (16)				ND (0.40)	NT	ND (1.0)	NT
BIS(2-CHLOROETHYL)ETHER	ND (16) *				ND (0.40)	NT	ND (1.0) *	NT
BIS(2-CHLOROISOPROPYL)ETHER	ND (16) *				ND (0.40)	NT	ND (1.0) *	NT
BIS(2-ETHYLHEXYL)PHTHALATE	ND (16)				ND (0.40)	NT	ND (1.0)	NT
4-BROMOPHENYL PHENYL ETHER	ND (16)				ND (0.40)	NT	ND (1.0)	NT
BUTYLBENZYLPHTHALATE	ND (16)				ND (0.40)	NT	ND (1.0)	NT
4-CHLOROANILINE	ND (31) *				ND (0.77)	NT	ND (2.0) *	NT
2-CHLORONAPHTHALENE	ND (16)				ND (0.40)	NT	ND (1.0)	NT
2-CHLOROPHENOL	ND (16) *				ND (0.40)	NT	ND (1.0) *	NT
CHRYSENE	3400				12	NT	49	NT
DIBENZ(A,H)ANTHRACENE	600				1.9	NT	2.1	NT
DIBENZOFURAN	3900				7.5	NT	56	NT
DI-N-BUTYLPHTHALATE	ND (16)				ND (0.40)	NT	ND (1.0)	NT
1,2-DICHLOROBENZENE	ND (16) *				ND (0.40)	NT	ND (1.0)	NT
1,3-DICHLOROBENZENE	ND (16) *				ND (0.40)	NT	ND (1.0)	NT
1,4-DICHLOROBENZENE	ND (16) *				ND (0.40)	NT	ND (1.0) *	NT
3,3'-DICHLOROBENZIDINE	ND (8.0) *				ND (0.20)	NT	ND (0.52)	NT
2,4-DICHLOROPHENOL	ND (16) *				ND (0.40)	NT	ND (1.0) *	NT
DIETHYLPHTHALATE	ND (16) *				ND (0.40)	NT	ND (1.0)	NT
2,4-DIMETHYLPHENOL	290				ND (0.40)	NT	1.6	NT
DIMETHYLPHTHALATE	ND (16) *				ND (0.40)	NT	ND (1.0) *	NT
2,4-DINITROPHENOL	ND (31) *				ND (0.77)	NT	ND (2.0)	NT
2,4-DINITROTOLUENE	ND (16) *				ND (0.40)	NT	ND (1.0) *	NT
2,6-DINITROTOLUENE	ND (16)				ND (0.40)	NT	ND (1.0)	NT
DI-N-OCTYLPHTHALATE	ND (16)				ND (0.40)	NT	ND (1.0)	NT
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	ND (16)				ND (0.40)	NT	ND (1.0)	NT
FLUORANTHENE	9200				38	NT	150	NT
FLUORENE	6200				11	NT	94	NT
HEXACHLOROBENZENE	ND (16) *				ND (0.40)	NT	ND (1.0) *	NT
HEXACHLOROBUTADIENE	ND (16)				ND (0.40)	NT	ND (1.0)	NT
HEXACHLOROETHANE	ND (16) *				ND (0.40)	NT	ND (1.0) *	NT
INDENO(1,2,3-CD)PYRENE	1600				7.1	NT	26	NT
ISOPHORONE	ND (16)				ND (0.40)	NT	ND (1.0)	NT
2-METHYLNAPHTHALENE	4700				4.4	NT	54	NT
O-CRESOL	310				ND (0.40)	NT	1.8	NT
M/P-CRESOL	1000				ND (0.40)	NT	4.6	NT
NAPHTHALENE	15000				9.5	NT	170	NT
NITROBENZENE	ND (16)				ND (0.40)	NT	ND (1.0)	NT
2-NITROPHENOL	ND (16)				ND (0.40)	NT	ND (1.0)	NT
4-NITROPHENOL	ND (31)				ND (0.77)	NT	ND (2.0)	NT
PENTACHLOROPHENOL	ND (16) *				ND (0.40)	NT	ND (1.0)	NT
PHENANTHRENE	16000				42	NT	230	NT
PHENOL	960				ND (40) *	NT	4.1	NT
PYRENE	7400				31	NT	120	NT
1,2,4-TRICHLOROBENZENE	ND (16) *				ND (0.40)	NT	ND (1.0)	NT
2,4,5-TRICHLOROPHENOL	ND (16) *				ND (0.40)	NT	ND (1.0)	NT
2,4,6-TRICHLOROPHENOL	ND (16) *				ND (0.40)	NT	ND (1.0) *	NT

Table 9.1
Summary of Soil Analytical Data:
RGP-345

Parameter	Sample Locations							
	RGP-345-G	RGP-345-G2	RGP-345-G-1A	RGP-345-G-2A	RGP-345-B21-SPE	RGP-345-B21-SPE	RGP-345-B21-SPW	RGP-345-B21-SPW
Sampling Date	5/12/2016	5/17/2016	5/18/2016	5/18/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016
Sample Depth	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile	Stockpile
SW-846 9014 (mg/Kg)								
REACTIVE CYANIDE	ND (4.0)				ND (3.9)	NT	ND (4.0)	NT
SW-846 9030A (mg/Kg)								
REACTIVE SULFIDE	ND (20)				ND (20)	NT	ND (20)	NT
SW-846 9045C (pH Units)								
PH	10				8.0	NT	6.7	NT
SW-846 8082A (mg/Kg dry)								
PCB 1016	ND (0.21)				ND (0.12)	NT	ND (0.15)	NT
PCB 1221	ND (0.21)				ND (0.12)	NT	ND (0.15)	NT
PCB 1232	ND (0.21)				ND (0.12)	NT	ND (0.15)	NT
PCB 1242	ND (0.21)				ND (0.12)	NT	0.15	NT
PCB 1248	ND (0.21)				ND (0.12)	NT	ND (0.15)	NT
PCB 1254	ND (0.21)				0.18	NT	ND (0.15)	NT
PCB 1260	ND (0.21)				0.13	NT	ND (0.15)	NT
PCB 1262	ND (0.21)				ND (0.12)	NT	ND (0.15)	NT
PCB 1268	ND (0.21)				ND (0.12)	NT	ND (0.15)	NT
TOTAL PCBs								
SW-846 8151A (µg/kg dry)								
2,4-D	ND (2100)							
2,4-DB	ND (2100)							
2,4,5-TP (SILVEX)	ND (210)							
2,4,5-T	ND (210)							
DALAPON	ND (5200)							
DICAMBA	ND (210)							
DICHLOROPROP	ND (2100)							
DINOSEB	ND (1000)							
MCPA	ND (210000) *							
MCPP	ND (210000)							
SW-846 8081B (µg/L) 1311 TCLP EXT								
CHLORDANE	ND (4.0)		ND (4.0)	ND (4.0)				
SW-846 6010C-D (mg/Kg dry) Metals Digestion								
COPPER								
SW-846 8100 Modified (mg/Kg dry)								
TPH	230000				850	NT	2700	NT
SW-846 8260C (mg/Kg dry)								
BENZENE		ND (0.0026)						
SW-846 8260C(2) (mg/Kg dry)								
NAPHTHALENE					NT	20	NT	NT
SW-846 8260C(4) (mg/L) 1311 TCLP ZHE Modified								
BENZENE					NT	ND (0.010)	NT	ND (0.010)
2-BUTANONE (MEK)					NT	ND (0.20)	NT	ND (0.20)
CARBON TETRACHLORIDE					NT	ND (0.010)	NT	ND (0.010)
CHLOROBENZENE					NT	ND (0.010)	NT	ND (0.010)
CHLOROFORM					NT	ND (0.010)	NT	ND (0.010)
1,4-DICHLOROBENZENE					NT	ND (0.010)	NT	ND (0.010)
1,2-DICHLOROETHANE					NT	ND (0.010)	NT	ND (0.010)
1,1-DICHLOROETHYLENE					NT	ND (0.010)	NT	ND (0.010)
TETRACHLOROETHYLENE					NT	ND (0.010)	NT	ND (0.010)
TRICHLOROETHYLENE					NT	ND (0.010)	NT	ND (0.010)
VINYL CHLORIDE					NT	ND (0.020)	NT	ND (0.020)
NOTES:								
1. ND = Not detected above the lab								
reporting limits showin in parenthesis.								
2. NT = Not tested.								

Table 9.2
Summary of Confirmatory Soil Analytical Data:
RGP-345

Parameter	SAMPLING LOCATION											
	RGP-345-E	RGP-345-B*	RGP-345-B1	RGP-345-B2*	RGP-345-E2*	RGP-345-B3*	RGP-345-B4	RGP-345-E3	RGP-345-SE	RGP-345-B5*	RGP-345-B6	RGP-345-E4
Sampling Date	3/1/2016	3/4/2016	3/9/2016	3/18/2016	3/18/2016	4/1/2016	4/1/2016	4/1/2016	4/1/2016	4/5/2016	4/5/2016	4/5/2016
Sample Location	East Wall 118-120'	Bottom 119'	Bottom 119'	Bottom 117'	East Wall 117-121'	Bottom 119'	Bottom 121'	East Wall 121-124'	South East Wall 119-122'	Bottom 119'	Bottom 119'	East Wall 119-124'
MADEP-EPH-04-1.1 (mg/Kg dry)												
C9-C18 ALIPHATICS	ND (13)	ND (11)	ND (30)	ND (11)	ND (12)	ND (14)	ND (12)	ND (17)	ND (16)	ND (13)	ND (15)	ND (13)
C19-C36 ALIPHATICS	ND (13)	ND (11)	70	ND (11)	ND (12)	30	26	40	30	26	28	34
UNADJUSTED C11-C22 AROMATICS	130	ND (11)	1300	21	35	30	660	450	480	150	1500	54
C11-C22 AROMATICS	80	ND (11)	620	15	25	26	390	270	290	98	780	43
ACENAPHTHENE	0.51	ND (0.11)	9.3	0.23	0.25	ND (0.14)	3.1	2.1	2.2	0.52	7.9	ND (0.13)
ACENAPHTHYLENE	1.3	ND (0.11)	15	0.15	0.12	ND (0.14)	8.6	5.9	5.9	0.90	29	ND (0.13)
ANTHRACENE	2.3	ND (0.11)	20	0.32	0.43	0.17	15	9.6	10	1.4	36	0.40
BENZO(A)ANTHRACENE	3.1	ND (0.11)	23	0.31	0.72	0.21	15	9.9	11	2.7	31	0.82
BENZO(A)PYRENE	2.6	ND (0.11)	17	0.24	0.60	0.19	11	7.9	9.2	2.6	22	0.80
BENZO(B)FLUORANTHENE	3.4	ND (0.11)	23	0.32	0.79	0.27	16	10	12	3.4	28	0.93
BENZO(G,H,I)PERYLENE	1.4	ND (0.11)	7.5	0.13	0.33	0.20	5.1	3.8	4.5	1.1	10	0.35
BENZO(K)FLUORANTHENE	1.3	ND (0.11)	8.5	0.13	0.33	ND (0.14)	5.6	4.0	4.4	1.4	10	0.31
CHRYSENE	3.1	ND (0.11)	20	0.30	0.75	0.25	15	9.8	11	3.5	28	0.91
DIBENZ(A,H)ANTHRACENE	0.46	ND (0.11)	2.7	ND (0.11)	0.13	ND (0.14)	1.9	1.3	1.5	0.41	3.3	ND (0.13)
FLUORANTHENE	8.0	ND (0.11)	68	0.83	1.7	0.57	43	28	32	8.4	86	1.9
FLUORENE	2.6	ND (0.11)	33	0.42	0.33	0.16	19	12	13	1.7	53	0.33
INDENO(1,2,3-CD)PYRENE	1.6	ND (0.11)	8.5	0.13	0.37	ND (0.14)	5.7	4.1	4.9	1.4	11	0.41
2-METHYLNAPHTHALENE	0.87	ND (0.11)	22	0.18	ND (0.12)	ND (0.14)	7.5	5.1	4.7	0.87	33	ND (0.13)
NAPHTHALENE	1.7	ND (0.11)	85	0.61	0.21	0.14	17	12	9.6	1.3	110	0.33
PHENANTHRENE	9.0	ND (0.11)	96	1.3	1.6	0.72	41	31	38	10	130	1.8
PYRENE	6.4	ND (0.11)	51	0.54	1.5	0.48	32	21	24	6.3	65	1.7
SM 2540G (% Wt)												
% Solids	77.7	85.8	67.2	88.1	80.6	71.4	80.8	77.0	81.8	76.7	66.3	73.4
SW-846 8081B (mg/Kg dry)												
ALDRIN	ND (0.13) *	ND (0.0057)	ND (0.15) *	ND (0.0055)	ND (0.0062)	ND (0.0070)	ND (0.062)	ND (0.064)	ND (0.061)	ND (0.0063)	ND (0.15) *	ND (0.0067)
ALPHA-BHC	ND (0.13)	ND (0.0057)	ND (0.15)	ND (0.0055)	ND (0.0062)	ND (0.0070)	ND (0.062)	ND (0.064)	ND (0.061)	ND (0.0063)	ND (0.15)	ND (0.0067)
BETA-BHC	ND (0.13)	ND (0.0057)	ND (0.15)	ND (0.0055)	ND (0.0062)	ND (0.0070)	ND (0.062)	ND (0.064)	ND (0.061)	ND (0.0063)	ND (0.15)	ND (0.0067)
DELTA-BHC	ND (0.13)	ND (0.0057)	ND (0.15)	ND (0.0055)	ND (0.0062)	ND (0.0070)	ND (0.062)	ND (0.064)	ND (0.061)	ND (0.0063)	ND (0.15)	ND (0.0067)
GAMMA-BHC (LINDANE)	ND (0.050) *	ND (0.0023)	ND (0.059) *	ND (0.0022)	ND (0.0025)	ND (0.0028)	ND (0.025) *	ND (0.026) *	ND (0.024) *	ND (0.0025)	ND (0.059) *	ND (0.0027)
CHLORDANE	ND (0.50)	ND (0.023)	ND (0.59)	ND (0.022)	ND (0.025)	ND (0.028)	ND (0.25)	ND (0.26)	ND (0.24)	ND (0.025)	ND (0.59)	ND (0.027)
4,4'-DDD	ND (0.10)	ND (0.0046)	ND (0.12)	ND (0.0044)	ND (0.0049)	0.028	ND (0.050)	ND (0.051)	ND (0.049)	0.021	ND (0.12)	0.052
4,4'-DDE	ND (0.10)	ND (0.0046)	ND (0.12)	ND (0.0044)	ND (0.0049)	0.016	ND (0.050)	ND (0.051)	ND (0.049)	0.013	ND (0.12)	0.020
4,4'-DDT	ND (0.10)	ND (0.0046)	ND (0.12)	ND (0.0044)	ND (0.0049)	0.0069	0.065	ND (0.051)	ND (0.049)	0.018	ND (0.12)	0.024
DIELDRIN	ND (0.10) *	ND (0.0046)	ND (0.12) *	ND (0.0044)	ND (0.0049)	ND (0.0056)	ND (0.050)	ND (0.051)	ND (0.049)	ND (0.0051)	ND (0.12) *	ND (0.0054)
ENDOSULFAN I	ND (0.13)	ND (0.0057)	ND (0.15)	ND (0.0055)	ND (0.0062)	ND (0.0070)	ND (0.062)	ND (0.064)	ND (0.061)	ND (0.0063)	ND (0.15)	ND (0.0067)
ENDOSULFAN II	ND (0.20)	ND (0.0091)	ND (0.24)	ND (0.0089)	ND (0.0098)	ND (0.011)	ND (0.099)	ND (0.10)	ND (0.098)	ND (0.010)	ND (0.23)	ND (0.011)
ENDOSULFAN SULFATE	ND (0.20)	ND (0.0091)	ND (0.24)	ND (0.0089)	ND (0.0098)	ND (0.011)	ND (0.099)	ND (0.10)	ND (0.098)	ND (0.010)	ND (0.23)	ND (0.011)
ENDRIN	ND (0.20)	ND (0.0091)	ND (0.24)	ND (0.0089)	ND (0.0098)	ND (0.011)	ND (0.099)	ND (0.10)	ND (0.098)	ND (0.010)	ND (0.23)	ND (0.011)
ENDRIN KETONE	ND (0.20)	ND (0.0091)	ND (0.24)	ND (0.0089)	ND (0.0098)	ND (0.011)	ND (0.099)	ND (0.10)	ND (0.098)	ND (0.010)	ND (0.23)	ND (0.011)
HEPTACHLOR	ND (0.13)	ND (0.0057)	ND (0.15)	ND (0.0055)	ND (0.0062)	ND (0.0070)	ND (0.062)	ND (0.064)	ND (0.061)	ND (0.0063)	ND (0.15)	ND (0.0067)
HEPTACHLOR EPOXIDE	ND (0.13) *	ND (0.0057)	ND (0.15) *	ND (0.0055)	ND (0.0062)	ND (0.0070)	ND (0.062)	ND (0.064)	ND (0.061)	ND (0.0063)	ND (0.15) *	ND (0.0067)
HEXACHLOROBENZENE	ND (0.15)	ND (0.0069)	ND (0.18)	ND (0.0067)	ND (0.0074)	ND (0.0084)	ND (0.074)	ND (0.077)	ND (0.073)	ND (0.0076)	ND (0.18)	ND (0.0081)
METHOXYCHLOR	ND (1.3)	ND (0.057)	ND (1.5)	ND (0.055)	ND (0.062)	ND (0.070)	ND (0.62)	ND (0.64)	ND (0.61)	ND (0.063)	ND (1.5)	ND (0.067)

NOTES:
1. ND = Not detected above lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. * = Final confirmatory sample

Table 9.2
Summary of Confirmatory Soil Analytical Data:
RGP-345

Parameter	SAMPLING LOCATION											
	RGP-345-SE1	RGP-345-B7*	RGP-345-SE2	RGP-345-B8	RGP-345-SE3	RGP-345-B9	RGP-345-SE4	RGP-345-SE5	RGP-345-B10*	RGP-345-B11*	RGP-345-E5	RGP-345-S1*
Sampling Date	4/5/2016	4/8/2016	4/8/2016	4/19/2016	4/19/2016	4/21/2016	4/21/2016	4/21/2016	4/26/2016	4/26/2016	4/26/2016	4/26/2016
Sample Location	South East Wall	Bottom	South East Wall	Bottom	South East Wall	Bottom	South East Wall	South East Wall	Bottom	Bottom	East Wall	South Wall
	119-122'	118'	118-123'	121'	121-126'	120'	120-126'	120-125'	119'	119'	119-123'	119-125'
MADEP-EPH-04-1.1 (mg/Kg dry)												
C9-C18 ALIPHATICS	ND (13)	ND (13)	ND (24)	ND (13)	ND (23)	ND (24)	12	31	ND (14)	ND (13)	14	ND (13)
C19-C36 ALIPHATICS	20	24	30	17	31	80	58	91	16	ND (13)	35	21
UNADJUSTED C11-C22 AROMATICS	800	60	1400	350	400	820	310	1200	54	330	420	170
C11-C22 AROMATICS	460	43	770	200	240	440	210	700	39	190	250	110
ACENAPHTHENE	3.7	0.18	8.4	1.8	1.6	4.0	0.88	4.6	0.18	1.1	2.0	0.55
ACENAPHTHYLENE	13	0.52	25	4.5	5.1	16	2.3	19	0.40	0.45	5.0	1.7
ANTHRACENE	19	0.75	41	6.6	8.2	21	4.2	26	0.73	5.5	7.7	3.0
BENZO(A)ANTHRACENE	19	1.0	29	8.4	9.9	15	6.3	20	0.90	12	9.1	3.7
BENZO(A)PYRENE	14	1.0	19	6.4	7.4	12	6.5	17	0.85	8.5	7.9	3.5
BENZO(B)FLUORANTHENE	18	1.1	27	8.4	9.6	16	8.7	22	1.2	12	11	4.6
BENZO(G,H,I)PERYLENE	6.0	0.42	7.4	3.0	3.4	5.3	3.8	7.6	0.48	3.9	3.8	1.8
BENZO(K)FLUORANTHENE	6.9	0.34	9.9	3.2	3.7	6.3	3.1	8.1	0.42	4.4	4.1	1.8
CHRYSENE	17	0.98	28	7.7	9.0	14	6.1	19	0.88	12	9.3	3.6
DIBENZ(A,H)ANTHRACENE	2.3	ND (0.13)	2.9	ND (0.63)	ND (0.46)	1.9	0.96	2.5	ND (0.14)	1.4	1.2	0.58
FLUORANTHENE	50	2.6	84	23	26	43	17	63	2.6	28	26	10
FLUORENE	24	0.91	50	8.9	11	28	4.8	34	0.82	2.7	10	3.1
INDENO(1,2,3-CD)PYRENE	7.1	0.44	9.0	3.4	3.7	5.7	3.8	8.0	0.47	4.8	4.1	2.0
2-METHYLNAPHTHALENE	11	0.40	31	4.4	4.0	20	1.9	24	0.23	0.33	5.9	1.6
NAPHTHALENE	28	1.2	91	11	9.2	69	3.5	89	0.27	0.42	11	2.9
PHENANTHRENE	66	2.9	130	30	34	65	16	94	2.8	23	34	11
PYRENE	34	2.0	63	18	18	36	15	50	2.1	24	24	8.5
SM 2540G (% Wt)												
% Solids	78.6	74.8	81.3	79.6	85.4	83.0	88.0	83.7	73.1	75.2	76.1	76.6
SW-846 8081B (mg/Kg dry)												
ALDRIN	ND (0.12) *	ND (0.0067)	ND (0.030)	ND (0.031)	ND (0.029)	ND (0.058)	ND (0.054)	ND (0.059)	ND (0.066)	ND (0.065)	ND (0.064)	ND (0.063)
ALPHA-BHC	ND (0.12)	ND (0.0067)	ND (0.030)	ND (0.031)	ND (0.029)	ND (0.058)	ND (0.054)	ND (0.059)	ND (0.066)	ND (0.065)	ND (0.064)	ND (0.063)
BETA-BHC	ND (0.12)	ND (0.0067)	ND (0.030)	ND (0.031)	ND (0.029)	ND (0.058)	ND (0.054)	ND (0.059)	ND (0.066)	ND (0.065)	ND (0.064)	ND (0.063)
DELTA-BHC	ND (0.12)	ND (0.0067)	ND (0.030)	ND (0.031)	ND (0.029)	ND (0.058)	ND (0.054)	ND (0.059)	ND (0.066)	ND (0.065)	ND (0.064)	ND (0.063)
GAMMA-BHC (LINDANE)	ND (0.049) *	ND (0.0027)	ND (0.012) *	ND (0.013) *	ND (0.012) *	ND (0.023) *	ND (0.022) *	ND (0.023) *	ND (0.026) *	ND (0.026) *	ND (0.026) *	ND (0.025) *
CHLORDANE	ND (0.49)	ND (0.027)	ND (0.12)	ND (0.13)	ND (0.12)	ND (0.23)	ND (0.22)	ND (0.23)	ND (0.26)	ND (0.26)	ND (0.26)	ND (0.25)
4,4'-DDD	ND (0.098)	0.022	ND (0.024)	ND (0.025)	ND (0.023)	ND (0.047)	ND (0.043)	ND (0.047)	ND (0.053)	ND (0.052)	ND (0.052)	ND (0.050)
4,4'-DDE	ND (0.098)	0.015	ND (0.024)	0.030	ND (0.023)	ND (0.047)	ND (0.043)	ND (0.047)	ND (0.053)	0.079	0.058	ND (0.050)
4,4'-DDT	ND (0.098)	0.010	ND (0.024)	0.046	0.033	ND (0.047)	0.091	0.060	ND (0.053)	0.85	0.47	0.17
DIELDRIN	ND (0.098) *	ND (0.0053)	ND (0.024)	ND (0.025)	ND (0.023)	ND (0.047)	ND (0.043)	ND (0.047)	ND (0.053)	ND (0.052)	ND (0.052)	ND (0.050)
ENDOSULFAN I	ND (0.12)	ND (0.0067)	ND (0.030)	ND (0.031)	ND (0.029)	ND (0.058)	ND (0.054)	ND (0.059)	ND (0.066)	ND (0.065)	ND (0.064)	ND (0.063)
ENDOSULFAN II	ND (0.20)	ND (0.011)	ND (0.048)	ND (0.050)	ND (0.046)	ND (0.094)	ND (0.087)	ND (0.094)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.10)
ENDOSULFAN SULFATE	ND (0.20)	ND (0.011)	0.063	ND (0.050)	ND (0.046)	ND (0.094)	ND (0.087)	ND (0.094)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.10)
ENDRIN	ND (0.20)	ND (0.011)	ND (0.048)	ND (0.050)	ND (0.046)	ND (0.094)	ND (0.087)	ND (0.094)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.10)
ENDRIN KETONE	ND (0.20)	ND (0.011)	ND (0.048)	ND (0.050)	ND (0.046)	ND (0.094)	ND (0.087)	ND (0.094)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.10)
HEPTACHLOR	ND (0.12)	ND (0.0067)	ND (0.030)	ND (0.031)	ND (0.029)	ND (0.058)	ND (0.054)	ND (0.059)	ND (0.066)	ND (0.065)	ND (0.064)	ND (0.063)
HEPTACHLOR EPOXIDE	ND (0.12) *	ND (0.0067)	ND (0.030)	ND (0.031)	ND (0.029)	ND (0.058)	ND (0.054)	ND (0.059)	ND (0.066)	ND (0.065)	ND (0.064)	ND (0.063)
HEXACHLOROBENZENE	ND (0.15)	ND (0.0080)	ND (0.036)	ND (0.038)	ND (0.035)	ND (0.070)	ND (0.065)	ND (0.070)	ND (0.079)	ND (0.077)	ND (0.077)	ND (0.075)
METHOXYCHLOR	ND (1.2)	ND (0.067)	ND (0.30)	ND (0.31)	ND (0.29)	ND (0.58)	ND (0.54)	ND (0.59)	ND (0.66)	ND (0.65)	ND (0.64)	ND (0.63)

NOTES:

1. ND = Not detected above lab reporting lin
in parenthesis.
2. NT = Not tested.
3. * = Final confirmatory sample

Table 9.2
Summary of Confirmatory Soil Analytical Data:
RGP-345

Parameter	SAMPLING LOCATION										
	RGP-345-W1	RGP-345-W2*	RGP-345-B12*	RGP-345-S2*	RGP-345-W3*	RGP-345-B13*	RGP-345-S3*	Over Dig Bottom	Over Dig East Sidewall	Over Dig North Sidewall	RGP-345-NI
Sampling Date	4/26/2016	4/29/2016	4/29/2016	4/29/2016	4/29/2016	5/5/2016	5/5/2016	5/23/2016	5/23/2016	5/23/2016	6/10/2016
Sample Location	West Wall	West Wall	Bottom	South Wall	West Wall	Bottom	South Wall	Bottom	East Wall	North Wall	North Wall
	119-125'	119-124'	119'	119-127'	119-127'	119'	119-124'	118-119.5'	118-119.5'	118-119.5	118-121'
MADEP-EPH-04-1.1 (mg/Kg dry)											
C9-C18 ALIPHATICS	ND (13)	13	ND (12)	ND (12)	ND (12)	ND (12)	ND (13)	25	ND (22)	ND (24)	35
C19-C36 ALIPHATICS	21	69	15	18	20	ND (12)	ND (13)	96	74	85	210
UNADJUSTED C11-C22 AROMATICS	300	280	60	100	70	14	16	650	270	300	430
C11-C22 AROMATICS	180	190	41	64	47	ND (12)	13	390	190	220	320
ACENAPHTHENE	1.2	0.87	0.15	0.45	ND (0.12)	ND (0.12)	ND (0.13)	7.1	1.5	1.6	1.8
ACENAPHTHYLENE	4.5	1.6	0.54	1.1	0.49	ND (0.12)	ND (0.13)	5.3	1.0	0.55	ND (0.24)
ANTHRACENE	4.9	3.9	1.0	2.0	1.2	ND (0.12)	0.18	14	3.7	3.3	3.3
BENZO(A)ANTHRACENE	5.7	5.3	1.1	2.0	1.5	0.22	0.25	13	6.3	6.1	9.4
BENZO(A)PYRENE	4.9	4.8	1.0	1.8	1.4	0.21	0.24	11	5.4	4.9	7.1
BENZO(B)FLUORANTHENE	6.7	6.5	1.4	2.5	1.9	0.24	0.28	13	6.6	6.6	10
BENZO(G,H,I)PERYLENE	2.4	2.4	0.58	0.97	0.76	ND (0.12)	ND (0.13)	4.8	2.8	2.6	3.9
BENZO(K)FLUORANTHENE	2.4	2.4	0.52	0.92	0.72	ND (0.12)	ND (0.13)	4.7	2.5	2.4	3.6
CHRYSENE	5.1	5.7	1.1	1.9	1.4	0.27	0.30	13	6.1	6.4	10
DIBENZ(A,H)ANTHRACENE	0.78	0.76	0.17	0.30	0.23	ND (0.12)	ND (0.13)	0.56	0.34	0.31	1.1
FLUORANTHENE	18	15	3.3	5.9	4.1	0.50	0.68	34	15	15	18
FLUORENE	8.3	3.9	1.1	2.2	0.85	ND (0.12)	0.15	15	3.2	2.4	1.9
INDENO(1,2,3-CD)PYRENE	2.6	2.6	0.56	0.99	0.79	ND (0.12)	ND (0.13)	5.2	3.1	2.8	4.0
2-METHYLNAPHTHALENE	5.1	1.8	0.34	0.89	0.21	ND (0.12)	ND (0.13)	7.9	0.37	0.92	0.60
NAPHTHALENE	16	3.5	0.48	2.2	0.35	ND (0.12)	ND (0.13)	26	0.46	2.8	1.1
PHENANTHRENE	24	17	3.8	6.9	3.4	0.53	0.81	50	15	14	13
PYRENE	14	14	2.6	4.6	3.3	0.63	0.63	36	14	14	18
SM 2540G (% Wt)											
% Solids	73.6	84.1	80.8	79.9	80.4	84.3	77.3	81.1	88.9	84.7	81.4
SW-846 8081B (mg/Kg dry)											
ALDRIN	ND (0.067)	ND (0.029)	ND (0.0060)	ND (0.0061)	ND (0.0061)	ND (0.0058)	ND (0.0063)	ND (0.12) *	ND (0.11) *	ND (0.12) *	NT
ALPHA-BHC	ND (0.067)	ND (0.029)	ND (0.0060)	ND (0.0061)	ND (0.0061)	ND (0.0058)	ND (0.0063)	ND (0.12)	ND (0.11)	ND (0.12)	NT
BETA-BHC	ND (0.067)	ND (0.029)	ND (0.0060)	ND (0.0061)	ND (0.0061)	ND (0.0058)	ND (0.0063)	ND (0.12)	ND (0.11)	ND (0.12)	NT
DELTA-BHC	ND (0.067)	ND (0.029)	ND (0.0060)	ND (0.0061)	ND (0.0061)	ND (0.0058)	ND (0.0063)	ND (0.12)	ND (0.11)	ND (0.12)	NT
GAMMA-BHC (LINDANE)	ND (0.027) *	ND (0.012) *	ND (0.0024)	ND (0.0025)	ND (0.0024)	ND (0.0023)	ND (0.0025)	ND (0.049) *	ND (0.045) *	ND (0.047) *	NT
CHLORDANE	ND (0.27)	ND (0.12)	ND (0.024)	ND (0.025)	ND (0.024)	ND (0.023)	ND (0.025)	ND (0.49)	ND (0.45)	ND (0.47)	NT
4,4'-DDD	ND (0.054)	ND (0.023)	ND (0.0048)	ND (0.0049)	ND (0.0049)	ND (0.0047)	ND (0.0051)	ND (0.099)	ND (0.090)	ND (0.094)	NT
4,4'-DDE	ND (0.054)	0.066	ND (0.0048)	0.0086	0.010	0.0050	ND (0.0051)	ND (0.099)	ND (0.090)	ND (0.094)	NT
4,4'-DDT	0.092	0.36	0.011	0.030	0.036	0.031	0.029	ND (0.099)	ND (0.090)	ND (0.094)	NT
DIELDRIN	ND (0.054)	0.038	ND (0.0048)	ND (0.0049)	ND (0.0049)	ND (0.0047)	ND (0.0051)	ND (0.099) *	ND (0.090) *	ND (0.094) *	NT
ENDOSULFAN I	ND (0.067)	ND (0.029)	ND (0.0060)	ND (0.0061)	ND (0.0061)	ND (0.0058)	ND (0.0063)	ND (0.12)	ND (0.11)	ND (0.12)	NT
ENDOSULFAN II	ND (0.11)	ND (0.047)	ND (0.0096)	ND (0.0098)	ND (0.0098)	ND (0.0093)	ND (0.010)	ND (0.20)	ND (0.18)	ND (0.19)	NT
ENDOSULFAN SULFATE	ND (0.11)	ND (0.047)	ND (0.0096)	ND (0.0098)	ND (0.0098)	ND (0.0093)	ND (0.010)	ND (0.20)	ND (0.18)	ND (0.19)	NT
ENDRIN	ND (0.11)	ND (0.047)	ND (0.0096)	ND (0.0098)	ND (0.0098)	ND (0.0093)	ND (0.010)	ND (0.20)	ND (0.18)	ND (0.19)	NT
ENDRIN KETONE	ND (0.11)	ND (0.047)	ND (0.0096)	ND (0.0098)	ND (0.0098)	ND (0.0093)	ND (0.010)	ND (0.20)	ND (0.18)	ND (0.19)	NT
HEPTACHLOR	ND (0.067)	ND (0.029)	ND (0.0060)	ND (0.0061)	ND (0.0061)	ND (0.0058)	ND (0.0063)	ND (0.12)	ND (0.11)	ND (0.12)	NT
HEPTACHLOR EPOXIDE	ND (0.067)	ND (0.029)	ND (0.0060)	ND (0.0061)	ND (0.0061)	ND (0.0058)	ND (0.0063)	ND (0.12) *	ND (0.11) *	ND (0.12) *	NT
HEXACHLOROBENZENE	ND (0.081)	ND (0.035)	ND (0.0072)	ND (0.0074)	ND (0.0073)	ND (0.0070)	ND (0.0076)	ND (0.15)	ND (0.13)	ND (0.14)	NT
METHOXYCHLOR	ND (0.67)	ND (0.29)	ND (0.060)	ND (0.061)	ND (0.061)	ND (0.058)	ND (0.063)	ND (1.2)	ND (1.1)	ND (1.2)	NT

NOTES:
1. ND = Not detected above lab reporting lim
in parenthesis.
2. NT = Not tested.
3. * = Final confirmatory sample

Table 9.2
Summary of Confirmatory Soil Analytical Data:
RGP-345

Parameter	SAMPLING LOCATION											
	RGP-345-B14*	RGP-3345-B15	RGP-3345-S4	RGP-345-B16	RGP-345-B17	RGP-345-W4*	RGP-345-B18*	RGP-345-19*	RGP-345-20*	RGP-345-S5*	RGP-345-B21	RGP-345-Clay
Sampling Date	6/8/2016	6/13/2016	6/13/2016	6/16/2016	6/17/2016	6/20/2016	6/23/2016	6/27/2016	6/27/2016	6/27/2016	7/11/2016	7/12/2016
Sample Location	Bottom	Bottom	South Wall	Bottom	Bottom	West Wall	Bottom	Bottom	Bottom	South Wall	Bottom	
	120'	120'	119-125'	119'	119'	119-123'	118'	118.5'	118.5'	119-125'	109'	115'
MADEP-EPH-04-1.1 (mg/Kg dry)												
C9-C18 ALIPHATICS	ND (12)	ND (22)	ND (43)	ND (22)	ND (24)	ND (12)	ND (11)	ND (22)	ND (11)	ND (11)	ND (51)	ND (24)
C19-C36 ALIPHATICS	ND (12)	ND (22)	ND (43)	ND (22)	ND (24)	ND (12)	ND (11)	ND (22)	ND (11)	ND (11)	ND (51)	83
UNADJUSTED C11-C22 AROMATICS	240	380	2200	650	300	120	58	230	250	51	920	620
C11-C22 AROMATICS	120	210	1300	340	160	76	35	130	150	32	490	350
ACENAPHTHENE	1.7	2.2	9.3	4.4	3.3	0.58	0.42	1.2	3.8	0.26	5.8	3.7
ACENAPHTHYLENE	4.7	7.5	37	15	4.5	0.38	0.79	4.2	3.1	0.58	11	6.3
ANTHRACENE	6.2	8.2	52	18	6.6	1.7	0.97	6.0	5.1	0.88	12	12
BENZO(A)ANTHRACENE	4.4	7.6	45	13	6.4	3.6	1.1	5.1	6.0	1.2	11	14
BENZO(A)PYRENE	3.7	5.8	34	8.4	5.0	3.4	0.87	3.7	4.3	0.95	8.9	13
BENZO(B)FLUORANTHENE	4.5	7.5	46	10	6.1	4.3	1.1	4.8	5.4	1.3	11	16
BENZO(G,H,I)PERYLENE	1.6	2.8	15	3.5	2.4	2.0	0.44	1.6	1.9	0.52	4.3	6.3
BENZO(K)FLUORANTHENE	1.8	2.8	19	4.0	2.3	1.6	0.43	1.9	2.0	0.50	4.7	5.7
CHRYSENE	4.6	7.0	45	11	6.0	3.7	1.0	4.9	5.0	1.1	10	16
DIBENZ(A,H)ANTHRACENE	0.61	0.67	5.2	1.3	0.82	0.59	0.14	0.59	0.65	0.17	ND (2.6) *	2.0
FLUORANTHENE	13	21	140	39	17	8.1	2.8	14	17	2.7	30	40
FLUORENE	8.0	12	70	29	10	0.82	1.4	7.7	10	0.91	18	13
INDENO(1,2,3-CD)PYRENE	1.8	2.8	16	3.8	2.5	2.1	0.46	1.8	2.0	0.53	4.3	7.1
2-METHYLNAPHTHALENE	5.7	7.1	40	17	5.5	ND (0.12)	0.88	3.4	2.4	0.45	21	7.3
NAPHTHALENE	25	27	110	40	20	0.24	3.7	9.6	1.5	1.5	220	28
PHENANTHRENE	21	33	190	66	26	5.2	4.0	21	25	3.1	45	45
PYRENE	9.5	14	91	29	12	7.0	1.9	9.0	11	2.3	19	34
SM 2540G (% Wt)												
% Solids	85.3	89.7	93.2	91.1	85.1	80.7	88.4	91.9	91.3	88.5	39.0	82.2
SW-846 8081B (mg/Kg dry)												
ALDRIN	NT	ND (0.056)	ND (0.054)	ND (0.055)	ND (0.0059)	ND (0.0059)	ND (0.0056)	ND (0.11) *	ND (0.11) *	ND (0.0055)	ND (0.013)	ND (0.0058)
ALPHA-BHC	NT	ND (0.056)	ND (0.054)	ND (0.055)	ND (0.0059)	ND (0.0059)	ND (0.0056)	ND (0.11)	ND (0.11)	ND (0.0055)	ND (0.013)	ND (0.0058)
BETA-BHC	NT	ND (0.056)	ND (0.054)	ND (0.055)	ND (0.0059)	ND (0.0059)	ND (0.0056)	ND (0.11)	ND (0.11)	ND (0.0055)	ND (0.013)	ND (0.0058)
DELTA-BHC	NT	ND (0.056)	ND (0.054)	ND (0.055)	ND (0.0059)	ND (0.0059)	ND (0.0056)	ND (0.11)	ND (0.11)	ND (0.0055)	ND (0.013)	ND (0.0058)
GAMMA-BHC (LINDANE)	NT	ND (0.022) *	ND (0.021) *	ND (0.022) *	ND (0.0024)	ND (0.0024)	ND (0.0022)	ND (0.044) *	ND (0.044) *	ND (0.0022)	ND (0.0051) *	ND (0.0023)
CHLORDANE	NT	ND (0.22)	ND (0.21)	ND (0.22)	ND (0.024)	0.045	ND (0.022)	ND (0.44)	ND (0.44)	ND (0.022)	ND (0.051)	ND (0.023)
4,4'-DDD	NT	ND (0.045)	ND (0.043)	ND (0.044)	ND (0.0047)	ND (0.0047)	ND (0.0045)	ND (0.087)	ND (0.088)	ND (0.0044)	0.094	0.019
4,4'-DDE	NT	ND (0.045)	ND (0.043)	ND (0.044)	ND (0.0047)	0.0086	ND (0.0045)	ND (0.087)	ND (0.088)	ND (0.0044)	0.020	0.0051
4,4'-DDT	NT	ND (0.045)	ND (0.043)	ND (0.044)	ND (0.0047)	0.024	ND (0.0045)	ND (0.087)	ND (0.088)	0.0046	0.014	0.014
DIELDRIN	NT	ND (0.045)	ND (0.043)	ND (0.044)	ND (0.0047)	ND (0.0047)	ND (0.0045)	ND (0.087) *	ND (0.088) *	ND (0.0044)	ND (0.010)	ND (0.0047)
ENDOSULFAN I	NT	ND (0.056)	ND (0.054)	ND (0.055)	ND (0.0059)	ND (0.0059)	ND (0.0056)	ND (0.11)	ND (0.11)	ND (0.0055)	ND (0.013)	ND (0.0058)
ENDOSULFAN II	NT	ND (0.089)	ND (0.086)	ND (0.088)	ND (0.0094)	ND (0.0094)	ND (0.0090)	ND (0.17)	ND (0.18)	ND (0.0089)	ND (0.020)	ND (0.0093)
ENDOSULFAN SULFATE	NT	ND (0.089)	ND (0.086)	ND (0.088)	ND (0.0094)	ND (0.0094)	ND (0.0090)	ND (0.17)	ND (0.18)	ND (0.0089)	ND (0.020)	ND (0.0093)
ENDRIN	NT	ND (0.089)	ND (0.086)	ND (0.088)	ND (0.0094)	ND (0.0094)	ND (0.0090)	ND (0.17)	ND (0.18)	ND (0.0089)	ND (0.020)	ND (0.0093)
ENDRIN KETONE	NT	ND (0.089)	ND (0.086)	ND (0.088)	ND (0.0094)	ND (0.0094)	ND (0.0090)	ND (0.17)	ND (0.18)	ND (0.0089)	ND (0.020)	ND (0.0093)
HEPTACHLOR	NT	ND (0.056)	ND (0.054)	ND (0.055)	ND (0.0059)	ND (0.0059)	ND (0.0056)	ND (0.11)	ND (0.11)	ND (0.0055)	ND (0.013)	ND (0.0058)
HEPTACHLOR EPOXIDE	NT	ND (0.056)	ND (0.054)	ND (0.055)	ND (0.0059)	ND (0.0059)	ND (0.0056)	ND (0.11) *	ND (0.11) *	ND (0.0055)	ND (0.013)	ND (0.0058)
HEXACHLOROBENZENE	NT	ND (0.067)	ND (0.064)	ND (0.066)	ND (0.0071)	ND (0.0071)	ND (0.0067)	ND (0.13)	ND (0.13)	ND (0.0066)	ND (0.015)	ND (0.0070)
METHOXYCHLOR	NT	ND (0.56)	ND (0.54)	ND (0.55)	ND (0.059)	ND (0.059)	ND (0.056)	ND (1.1)	ND (1.1)	ND (0.055)	ND (0.13)	ND (0.058)

NOTES:
1. ND = Not detected above lab reporting lim
in parenthesis.
2. NT = Not tested.
3. * = Final confirmatory sample

Table 9.2
Summary of Confirmatory Soil Analytical Data:
RGP-345

Parameter	SAMPLING LOCATION											
	RGP-345-N2	RGP-345-B22*	RGP-345-E7	RGP-34S-B23*	RGP-34S-N3	RGP-345-B24*	RGP-345-B25*	RGP-345-B26*	RGP-345-B27*	RGP-345-B28*	RGP-345-B29*	RGP-345-N4
Sampling Date	7/12/2016	7/13/2016	7/13/2016	7/14/2016	7/14/2016	7/19/2016	7/19/2016 M	8/2/2016	8/2/2016	8/3/2016	8/3/2016	8/3/2016
Sample Location		Bottom	East Wall	Bottom	North Wall	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	North Wall
	110-121'	113'	109-120'	113'	113-121'	113'	107'	115'	115'	113'	113'	115-121'
MADEP-EPH-04-1.1 (mg/Kg dry)												
C9-C18 ALIPHATICS	ND (22)	ND (11)	35	ND (11)	ND (11)	ND (11)	ND (12)	ND (11)	ND (11)	ND (11)	ND (11)	ND (13)
C19-C36 ALIPHATICS	130	13	170	ND (11)	55	ND (11)	ND (12)	ND (11)	ND (11)	ND (11)	ND (11)	74
UNADJUSTED C11-C22 AROMATICS	210	18	860	ND (11)	180	57	20	24	12	13	ND (11)	1100
C11-C22 AROMATICS	150	17	600	ND (11)	120	36	12	16	ND (11)	ND (11)	ND (11)	690
ACENAPHTHENE	0.80	ND (0.11)	2.0	ND (0.11)	0.94	0.44	0.14	0.19	0.17	0.21	ND (0.11)	7.0
ACENAPHTHYLENE	ND (0.22)	ND (0.11)	5.2	ND (0.11)	0.21	0.63	0.40	0.29	0.16	ND (0.11)	ND (0.11)	19
ANTHRACENE	1.9	ND (0.11)	12	ND (0.11)	2.1	1.2	0.41	0.38	0.22	0.23	ND (0.11)	19
BENZO(A)ANTHRACENE	4.8	ND (0.11)	17	ND (0.11)	4.8	1.3	0.32	0.49	0.18	0.24	ND (0.11)	26
BENZO(A)PYRENE	4.2	ND (0.11)	15	ND (0.11)	4.8	1.1	0.27	0.44	0.16	0.22	ND (0.11)	21
BENZO(B)FLUORANTHENE	5.4	ND (0.11)	20	ND (0.11)	5.9	1.3	0.32	0.54	0.19	0.25	ND (0.11)	25
BENZO(G,H,I)PERYLENE	2.2	ND (0.11)	6.5	ND (0.11)	2.9	0.57	0.14	0.24	ND (0.11)	ND (0.11)	ND (0.11)	8.1
BENZO(K)FLUORANTHENE	2.0	ND (0.11)	7.7	ND (0.11)	2.1	0.53	0.14	0.20	ND (0.11)	ND (0.11)	ND (0.11)	9.3
CHRYSENE	4.8	ND (0.11)	15	ND (0.11)	5.1	1.3	0.35	0.50	0.18	0.20	ND (0.11)	22
DIBENZ(A,H)ANTHRACENE	0.58	ND (0.11)	2.1	ND (0.11)	0.75	0.21	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	2.9
FLUORANTHENE	11	0.39	51	0.24	12	3.4	0.90	1.2	0.52	0.68	ND (0.11)	74
FLUORENE	0.75	ND (0.11)	11	ND (0.11)	0.88	1.4	0.53	0.42	0.28	0.29	ND (0.11)	31
INDENO(1,2,3-CD)PYRENE	2.5	ND (0.11)	7.0	ND (0.11)	3.1	0.58	0.15	0.24	ND (0.11)	0.12	ND (0.11)	9.3
2-METHYLNAPHTHALENE	ND (0.22)	ND (0.11)	1.9	ND (0.11)	0.14	0.18	0.41	0.27	0.20	ND (0.11)	ND (0.11)	20
NAPHTHALENE	ND (0.22)	ND (0.11)	3.2	ND (0.11)	0.48	0.19	1.7	0.93	0.72	0.13	ND (0.11)	65
PHENANTHRENE	6.6	0.52	42	ND (0.11)	8.8	4.5	1.5	1.4	0.86	0.89	ND (0.11)	97
PYRENE	10	0.24	40	0.19	11	2.2	0.49	0.85	0.38	0.50	ND (0.11)	55
SM 2540G (% Wt)												
% Solids	91.3	91.7	87.9	91.0	89.0	92.5	84.4	89.8	89.0	87.4	90.9	77.4
SW-846 8081B (mg/Kg dry)												
ALDRIN	ND (0.0054)	ND (0.0054)	ND (0.055)	ND (0.0055)	ND (0.056)	ND (0.0054)	ND (0.0059)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.13) *
ALPHA-BHC	ND (0.0054)	ND (0.0054)	ND (0.055)	ND (0.0055)	ND (0.056)	ND (0.0054)	ND (0.0059)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.13)
BETA-BHC	ND (0.0054)	ND (0.0054)	ND (0.055)	ND (0.0055)	ND (0.056)	ND (0.0054)	ND (0.0059)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.13)
DELTA-BHC	ND (0.0054)	ND (0.0054)	ND (0.055)	ND (0.0055)	ND (0.056)	ND (0.0054)	ND (0.0059)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.13)
GAMMA-BHC (LINDANE)	ND (0.0021)	ND (0.0022)	ND (0.022) *	ND (0.0022)	ND (0.022) *	ND (0.0022)	ND (0.0024)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0022)	ND (0.052) *
CHLORDANE	ND (0.021)	ND (0.022)	ND (0.22)	ND (0.022)	ND (0.22)	ND (0.022)	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.52)
4,4'-DDD	0.0060	ND (0.0043)	0.073	ND (0.0044)	ND (0.045)	ND (0.0043)	ND (0.0047)	ND (0.0045)	ND (0.0045)	ND (0.0046)	ND (0.0044)	ND (0.10)
4,4'-DDE	ND (0.0043)	ND (0.0043)	ND (0.044)	ND (0.0044)	ND (0.045)	ND (0.0043)	ND (0.0047)	ND (0.0045)	ND (0.0045)	ND (0.0046)	ND (0.0044)	ND (0.10)
4,4'-DDT	0.0085	ND (0.0043)	0.053	ND (0.0044)	0.10	ND (0.0043)	ND (0.0047)	ND (0.0045)	ND (0.0045)	ND (0.0046)	ND (0.0044)	ND (0.10)
DIELDRIN	ND (0.0043)	ND (0.0043)	ND (0.044)	ND (0.0044)	ND (0.045)	ND (0.0043)	ND (0.0047)	ND (0.0045)	ND (0.0045)	ND (0.0046)	ND (0.0044)	ND (0.10) *
ENDOSULFAN I	ND (0.0054)	ND (0.0054)	ND (0.055)	ND (0.0055)	ND (0.056)	ND (0.0054)	ND (0.0059)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.13)
ENDOSULFAN II	ND (0.0086)	ND (0.0086)	ND (0.088)	ND (0.0088)	ND (0.090)	ND (0.0086)	ND (0.0095)	ND (0.0089)	ND (0.0090)	ND (0.0092)	ND (0.0088)	ND (0.21)
ENDOSULFAN SULFATE	ND (0.0086)	ND (0.0086)	ND (0.088)	ND (0.0088)	ND (0.090)	ND (0.0086)	ND (0.0095)	ND (0.0089)	ND (0.0090)	ND (0.0092)	ND (0.0088)	ND (0.21)
ENDRIN	ND (0.0086)	ND (0.0086)	ND (0.088)	ND (0.0088)	ND (0.090)	ND (0.0086)	ND (0.0095)	ND (0.0089)	ND (0.0090)	ND (0.0092)	ND (0.0088)	ND (0.21)
ENDRIN KETONE	ND (0.0086)	ND (0.0086)	ND (0.088)	ND (0.0088)	ND (0.090)	ND (0.0086)	ND (0.0095)	ND (0.0089)	ND (0.0090)	ND (0.0092)	ND (0.0088)	ND (0.21)
HEPTACHLOR	ND (0.0054)	ND (0.0054)	ND (0.055)	ND (0.0055)	ND (0.056)	ND (0.0054)	ND (0.0059)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.13)
HEPTACHLOR EPOXIDE	ND (0.0054)	ND (0.0054)	ND (0.055)	ND (0.0055)	ND (0.056)	ND (0.0054)	ND (0.0059)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.13) *
HEXACHLOROBENZENE	ND (0.0064)	ND (0.0065)	ND (0.066)	ND (0.0066)	ND (0.067)	ND (0.0065)	ND (0.0071)	ND (0.0067)	ND (0.0067)	ND (0.0069)	ND (0.0066)	ND (0.16)
METHOXYCHLOR	ND (0.054)	ND (0.054)	ND (0.55)	ND (0.055)	ND (0.56)	ND (0.054)	ND (0.059)	ND (0.056)	ND (0.056)	ND (0.057)	ND (0.055)	ND (1.3)

NOTES:
1. ND = Not detected above lab reporting lim
in parenthesis.
2. NT = Not tested.
3. * = Final confirmatory sample

Table 9.2
Summary of Confirmatory Soil Analytical Data:
RGP-345

Parameter	SAMPLING LOCATION								
	RGP-345-N5*	RGP-345-E8*	RGP-345-B30*	RGP-345-B31*	RGP-345-B32*	RGP-345-N6*	RGP-345-N7*	RGP-345-S6*	RGP-345-W5*
Sampling Date	8/3/2016	8/4/2016	8/5/2016	8/5/2016	8/5/2016	8/5/2016	8/5/2016	8/5/2016	8/5/2016M
Sample Location	North Wall	East Wall	Bottom	Bottom	Bottom	North Wall	North Wall	South Wall	West Wall
	115-121'	113-121'	115'	115'	115'	115-121'	115-121'	115-121'	115-121'
MADEP-EPH-04-1.1 (mg/Kg dry)									
C9-C18 ALIPHATICS	ND (10)	ND (11)	ND (11)	ND (11)	ND (11)	ND (11)	ND (49)	ND (11)	ND (11)
C19-C36 ALIPHATICS	23	21	ND (11)	ND (11)	ND (11)	44	87	55	17
UNADJUSTED C11-C22 AROMATICS	77	100	ND (11)	34	ND (11)	470	90	220	94
C11-C22 AROMATICS	56	68	ND (11)	22	ND (11)	260	72	150	63
ACENAPHTHENE	0.35	0.45	ND (0.11)	0.20	ND (0.11)	3.4	ND (0.49)	0.75	0.34
ACENAPHTHYLENE	ND (0.10)	0.76	ND (0.11)	0.37	ND (0.11)	8.7	ND (0.49)	1.1	0.62
ANTHRACENE	0.62	1.4	0.11	0.52	ND (0.11)	12	ND (0.49)	2.7	1.3
BENZO(A)ANTHRACENE	1.4	2.0	ND (0.11)	0.69	ND (0.11)	9.6	1.0	4.7	2.2
BENZO(A)PYRENE	1.5	1.8	ND (0.11)	0.63	ND (0.11)	7.8	2.8	4.4	2.0
BENZO(B)FLUORANTHENE	1.8	2.2	ND (0.11)	0.79	ND (0.11)	9.7	2.2	5.3	2.5
BENZO(G,H,I)PERYLENE	0.88	1.0	ND (0.11)	0.32	ND (0.11)	3.5	1.2	2.2	1.0
BENZO(K)FLUORANTHENE	0.66	0.82	ND (0.11)	0.29	ND (0.11)	3.7	0.76	1.9	0.89
CHRYSENE	1.6	2.1	ND (0.11)	0.72	ND (0.11)	10	1.5	4.9	2.3
DIBENZ(A,H)ANTHRACENE	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	1.3	ND (0.49)	0.76	0.34
FLUORANTHENE	3.6	5.0	0.19	1.8	ND (0.11)	26	2.8	11	5.4
FLUORENE	0.31	1.5	ND (0.11)	0.65	ND (0.11)	16	ND (0.49)	2.2	1.1
INDENO(1,2,3-CD)PYRENE	1.0	1.1	ND (0.11)	0.35	ND (0.11)	4.1	1.6	2.7	1.2
2-METHYLNAPHTHALENE	ND (0.10)	0.58	ND (0.11)	0.31	ND (0.11)	8.7	ND (0.49)	0.73	0.33
NAPHTHALENE	0.15	1.4	ND (0.11)	0.97	ND (0.11)	22	ND (0.49)	1.4	0.57
PHENANTHRENE	2.8	5.5	0.24	2.1	ND (0.11)	40	1.6	9.4	5.0
PYRENE	3.4	4.3	0.16	1.5	ND (0.11)	21	2.5	9.8	4.6
SM 2540G (% Wt)									
% Solids	96.4	93.5	92.3	89.6	88.4	91.2	26.0	88.8	90.4
SW-846 8081B (mg/Kg dry)									
ALDRIN	ND (0.10) *	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0055)	ND (0.052)	ND (0.018)	ND (0.055)	ND (0.0055)
ALPHA-BHC	ND (0.10)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0055)	ND (0.052)	ND (0.018)	ND (0.055)	ND (0.0055)
BETA-BHC	ND (0.10)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0055)	ND (0.052)	ND (0.018)	ND (0.055)	ND (0.0055)
DELTA-BHC	ND (0.10)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0055)	ND (0.052)	ND (0.018)	ND (0.055)	ND (0.0055)
GAMMA-BHC (LINDANE)	ND (0.041) *	ND (0.0021)	ND (0.0021)	ND (0.0022)	ND (0.0022)	ND (0.021) *	ND (0.0074) *	ND (0.022) *	ND (0.0022)
CHLORDANE	ND (0.41)	ND (0.021)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.21)	ND (0.074)	ND (0.22)	ND (0.022)
4,4'-DDD	ND (0.083)	ND (0.0043)	ND (0.0042)	ND (0.0044)	ND (0.0044)	ND (0.042)	ND (0.015)	ND (0.044)	ND (0.0044)
4,4'-DDE	ND (0.083)	ND (0.0043)	ND (0.0042)	ND (0.0044)	ND (0.0044)	ND (0.042)	ND (0.015)	ND (0.044)	0.0046
4,4'-DDT	ND (0.083)	0.015	ND (0.0042)	ND (0.0044)	ND (0.0044)	ND (0.042)	ND (0.015)	ND (0.044)	0.024
DIELDRIN	ND (0.083) *	ND (0.0043)	ND (0.0042)	ND (0.0044)	ND (0.0044)	ND (0.042)	ND (0.015)	ND (0.044)	0.0073
ENDOSULFAN I	ND (0.10)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0055)	ND (0.052)	ND (0.018)	ND (0.055)	ND (0.0055)
ENDOSULFAN II	ND (0.17)	ND (0.0086)	ND (0.0084)	ND (0.0087)	ND (0.0088)	ND (0.084)	ND (0.029)	ND (0.089)	ND (0.0088)
ENDOSULFAN SULFATE	ND (0.17)	ND (0.0086)	ND (0.0084)	ND (0.0087)	ND (0.0088)	ND (0.084)	ND (0.029)	ND (0.089)	ND (0.0088)
ENDRIN	ND (0.17)	ND (0.0086)	ND (0.0084)	ND (0.0087)	ND (0.0088)	ND (0.084)	ND (0.029)	ND (0.089)	ND (0.0088)
ENDRIN KETONE	ND (0.17)	ND (0.0086)	ND (0.0084)	ND (0.0087)	ND (0.0088)	ND (0.084)	ND (0.029)	ND (0.089)	ND (0.0088)
HEPTACHLOR	ND (0.10)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0055)	ND (0.052)	ND (0.018)	ND (0.055)	ND (0.0055)
HEPTACHLOR EPOXIDE	ND (0.10)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0055)	ND (0.052)	ND (0.018)	ND (0.055)	ND (0.0055)
HEXACHLOROBENZENE	ND (0.12)	ND (0.0064)	ND (0.0063)	ND (0.0065)	ND (0.0066)	ND (0.063)	ND (0.022)	ND (0.067)	ND (0.0066)
METHOXYCHLOR	ND (1.0)	ND (0.053)	ND (0.053)	ND (0.054)	ND (0.055)	ND (0.52)	ND (0.18)	ND (0.55)	ND (0.055)

NOTES:
1. ND = Not detected above lab reporting lim
in parenthesis.
2. NT = Not tested.
3. * = Final confirmatory sample

Table 9.3
Evaluation of Analytical Data and Determination of Method to Derive Exposure Point Concentration: RGP-345 Confirmatory Samples

Parameter	SAMPLING LOCATION											
	RGP-345-B	RGP-6-W2	RGP-345-B2	RGP-345-E2	RGP-345-B3	RGP-345-B5	RGP-345-B7	RGP-345-B10	RGP-345-B11	RGP-345-S1	RGP-345-W2	RGP-345- B12
Sampling Date	3/4/2016	3/1/2016	3/18/2016	3/18/2016	4/1/2016	4/5/2016	4/8/2016	4/26/2016	4/26/2016	4/26/2016	4/29/2016	4/29/2016
Sample Location / Elevation	Bottom / 119'	West Wall / 127-130'	Bottom / 117'	East Wall / 117-121'	Bottom / 119'	Bottom / 119'	Bottom / 118'	Bottom / 119'	Bottom / 119'	South Wall / 119-125'	West Wall / 119-124'	Bottom / 119'
Representative of Post-Remedial Conditions?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MADEP-EPH-04-1.1 (mg/Kg dry)												
C9-C18 ALIPHATICS	ND (11)	ND (25)	ND (11)	ND (12)	ND (14)	ND (13)	ND (13)	ND (14)	ND (13)	ND (13)	13	ND (12)
C19-C36 ALIPHATICS	ND (11)	96	ND (11)	ND (12)	30	26	24	16	ND (13)	21	69	15
C11-C22 AROMATICS	ND (11)	110	15	25	26	98	43	39	190	110	190	41
ACENAPHTHENE	ND (0.11)	0.35	0.23	0.25	ND (0.14)	0.52	0.18	0.18	1.1	0.55	0.87	0.15
ACENAPHTHYLENE	ND (0.11)	ND (0.25)	0.15	0.12	ND (0.14)	0.90	0.52	0.40	0.45	1.7	1.6	0.54
ANTHRACENE	ND (0.11)	0.78	0.32	0.43	0.17	1.4	0.75	0.73	5.5	3.0	3.9	1.0
BENZO(A)ANTHRACENE	ND (0.11)	2.0	0.31	0.72	0.21	2.7	1.0	0.90	12	3.7	5.3	1.1
BENZO(A)PYRENE	ND (0.11)	1.9	0.24	0.6	0.19	2.6	1.0	0.85	8.5	3.5	4.8	1.0
BENZO(B)FLUORANTHENE	ND (0.11)	2.3	0.32	0.79	0.27	3.4	1.1	1.2	12	4.6	6.5	1.4
BENZO(G,H,I)PERYLENE	ND (0.11)	1.1	0.13	0.33	0.2	1.1	0.42	0.48	3.9	1.8	2.4	0.58
BENZO(K)FLUORANTHENE	ND (0.11)	0.88	0.13	0.33	ND (0.14)	1.4	0.34	0.42	4.4	1.8	2.4	0.52
CHRYSENE	ND (0.11)	2.1	0.30	0.75	0.25	3.5	0.98	0.88	12	3.6	5.7	1.1
DIBENZ(A,H)ANTHRACENE	ND (0.11)	0.32	ND (0.11)	0.13	ND (0.14)	0.41	ND (0.13)	ND (0.14)	1.4	0.58	0.76	0.17
FLUORANTHENE	ND (0.11)	4.2	0.83	1.7	0.57	8.4	2.6	2.6	28	10	15	3.3
FLUORENE	ND (0.11)	0.3	0.42	0.33	0.16	1.7	0.91	0.82	2.7	3.1	3.9	1.1
INDENO(1,2,3-CD)PYRENE	ND (0.11)	1.1	0.13	0.37	ND (0.14)	1.4	0.44	0.47	4.8	2.0	2.6	0.56
2-METHYLNAPHTHALENE	ND (0.11)	ND (0.25)	0.18	ND (0.12)	ND (0.14)	0.87	0.40	0.23	0.33	1.6	1.8	0.34
NAPHTHALENE	ND (0.11)	ND (0.25)	0.61	0.21	0.14	1.3	1.2	0.27	0.42	2.9	3.5	0.48
PHENANTHRENE	ND (0.11)	3.1	1.3	1.6	0.72	10	2.9	2.8	23	11	17	3.8
PYRENE	ND (0.11)	4.0	0.54	1.5	0.48	6.3	2.0	2.1	24	8.5	14	2.6
SM 2540G (% Wt)												
% Solids	85.8	78.5	88.1	80.6	71.4	76.7	74.8	73.1	75.2	76.6	84.1	80.8
SW-846 8081B (mg/Kg dry)												
ALDRIN	ND (0.0057)		ND (0.0055)	ND (0.0062)	ND (0.0070)	ND (0.0063)	ND (0.0067)	ND (0.066)	ND (0.065)	ND (0.063)	ND (0.029)	ND (0.0060)
ALPHA-BHC	ND (0.0057)		ND (0.0055)	ND (0.0062)	ND (0.0070)	ND (0.0063)	ND (0.0067)	ND (0.066)	ND (0.065)	ND (0.063)	ND (0.029)	ND (0.0060)
BETA-BHC	ND (0.0057)		ND (0.0055)	ND (0.0062)	ND (0.0070)	ND (0.0063)	ND (0.0067)	ND (0.066)	ND (0.065)	ND (0.063)	ND (0.029)	ND (0.0060)
DELTA-BHC	ND (0.0057)		ND (0.0055)	ND (0.0062)	ND (0.0070)	ND (0.0063)	ND (0.0067)	ND (0.066)	ND (0.065)	ND (0.063)	ND (0.029)	ND (0.0060)
GAMMA-BHC (LINDANE)	ND (0.0023)		ND (0.0022)	ND (0.0025)	ND (0.0028)	ND (0.0025)	ND (0.0027)	ND (0.026)	ND (0.026)	ND (0.025)	ND (0.012)	ND (0.0024)
CHLORDANE	ND (0.023)		ND (0.022)	ND (0.025)	ND (0.028)	ND (0.025)	ND (0.027)	ND (0.26)	ND (0.26)	ND (0.25)	ND (0.12)	ND (0.024)
4,4'-DDD	ND (0.0046)		ND (0.0044)	ND (0.0049)	0.028	0.021	0.022	ND (0.053)	ND (0.052)	ND (0.050)	ND (0.023)	ND (0.0048)
4,4'-DDE	ND (0.0046)		ND (0.0044)	ND (0.0049)	0.016	0.013	0.015	ND (0.053)	0.079	ND (0.050)	0.066	ND (0.0048)
4,4'-DDT	ND (0.0046)		ND (0.0044)	ND (0.0049)	0.0069	0.018	0.010	ND (0.053)	0.85	0.17	0.36	0.011
DIELDRIN	ND (0.0046)		ND (0.0044)	ND (0.0049)	ND (0.0056)	ND (0.0051)	ND (0.0053)	ND (0.053)	ND (0.052)	ND (0.050)	0.038	ND (0.0048)
ENDOSULFAN I	ND (0.0057)		ND (0.0055)	ND (0.0062)	ND (0.0070)	ND (0.0063)	ND (0.0067)	ND (0.066)	ND (0.065)	ND (0.063)	ND (0.029)	ND (0.0060)
ENDOSULFAN II	ND (0.0091)		ND (0.0089)	ND (0.0098)	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.047)	ND (0.0096)
ENDOSULFAN SULFATE	ND (0.0091)		ND (0.0089)	ND (0.0098)	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.047)	ND (0.0096)
ENDRIN	ND (0.0091)		ND (0.0089)	ND (0.0098)	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.047)	ND (0.0096)
ENDRIN KETONE	ND (0.0091)		ND (0.0089)	ND (0.0098)	ND (0.011)	ND (0.010)	ND (0.011)	ND (0.11)	ND (0.10)	ND (0.10)	ND (0.047)	ND (0.0096)
HEPTACHLOR	ND (0.0057)		ND (0.0055)	ND (0.0062)	ND (0.0070)	ND (0.0063)	ND (0.0067)	ND (0.066)	ND (0.065)	ND (0.063)	ND (0.029)	ND (0.0060)
HEPTACHLOR EPOXIDE	ND (0.0057)		ND (0.0055)	ND (0.0062)	ND (0.0070)	ND (0.0063)	ND (0.0067)	ND (0.066)	ND (0.065)	ND (0.063)	ND (0.029)	ND (0.0060)
HEXACHLOROBENZENE	ND (0.0069)		ND (0.0067)	ND (0.0074)	ND (0.0084)	ND (0.0076)	ND (0.0080)	ND (0.079)	ND (0.077)	ND (0.075)	ND (0.035)	ND (0.0072)
METHOXYCHLOR	ND (0.057)		ND (0.055)	ND (0.062)	ND (0.070)	ND (0.063)	ND (0.067)	ND (0.66)	ND (0.65)	ND (0.63)	ND (0.29)	ND (0.060)
NOTES:												
1. ND = Not detected above the lab reporting limits shown in parenthesis.												
2. NT = Not tested.												

Table 9.3
Evaluation of Analytical Data and Determination of Method to Derive Exposure Point Concentration: RGP-345 Confirmatory Samples

Parameter	SAMPLING LOCATION											
	RGP-345-S2	RGP-345- W3	RGP-345-B13	RGP-345-S3	RGP-345-W4	RGP-345-B18	RGP-345-B19	RGP-345-B20	RGP-345-S5	RGP-345-B22	RGP-34S-B23	RGP-345-B24
Sampling Date	4/29/2016	4/29/2016	5/5/2016	5/5/2016	6/20/2016	6/23/2016	6/27/2016	6/27/2016	6/27/2016	7/13/2016	7/14/2016	7/19/2016
Sample Location / Elevation	South Wall / 119-127'	West Wall / 119-127'	Bottom / 119'	South Wall / 119-124'	West Wall / 119-123'	Bottom / 118'	Bottom / 118.5'	Bottom / 118.5'	South Wall / 119-125'	Bottom / 113'	Bottom / 113'	Bottom / 113'
Representative of Post-Remedial Conditions?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MADEP-EPH-04-1.1 (mg/Kg dry)												
C9-C18 ALIPHATICS	ND (12)	ND (12)	ND (12)	ND (13)	ND (12)	ND (11)	ND (22)	ND (11)	ND (11)	ND (11)	ND (11)	ND (11)
C19-C36 ALIPHATICS	18	20	ND (12)	ND (13)	ND (12)	ND (11)	ND (22)	ND (11)	ND (11)	13	ND (11)	ND (11)
C11-C22 AROMATICS	64	47	ND (12)	13	76	35	130	150	32	17	ND (11)	36
ACENAPHTHENE	0.45	ND (0.12)	ND (0.12)	ND (0.13)	0.58	0.42	1.2	3.8	0.26	ND (0.11)	ND (0.11)	0.44
ACENAPHTHYLENE	1.1	0.49	ND (0.12)	ND (0.13)	0.38	0.79	4.2	3.1	0.58	ND (0.11)	ND (0.11)	0.63
ANTHRACENE	2.0	1.2	ND (0.12)	0.18	1.7	0.97	6.0	5.1	0.88	ND (0.11)	ND (0.11)	1.2
BENZO(A)ANTHRACENE	2.0	1.5	0.22	0.25	3.6	1.1	5.1	6.0	1.2	ND (0.11)	ND (0.11)	1.3
BENZO(A)PYRENE	1.8	1.4	0.21	0.24	3.4	0.87	3.7	4.3	0.95	ND (0.11)	ND (0.11)	1.1
BENZO(B)FLUORANTHENE	2.5	1.9	0.24	0.28	4.3	1.1	4.8	5.4	1.3	ND (0.11)	ND (0.11)	1.3
BENZO(G,H,I)PERYLENE	0.97	0.76	ND (0.12)	ND (0.13)	2.0	0.44	1.6	1.9	0.52	ND (0.11)	ND (0.11)	0.57
BENZO(K)FLUORANTHENE	0.92	0.72	ND (0.12)	ND (0.13)	1.6	0.43	1.9	2.0	0.50	ND (0.11)	ND (0.11)	0.53
CHRYSENE	1.9	1.4	0.27	0.30	3.7	1.0	4.9	5.0	1.1	ND (0.11)	ND (0.11)	1.3
DIBENZ(A,H)ANTHRACENE	0.30	0.23	ND (0.12)	ND (0.13)	0.59	0.14	0.59	0.65	0.17	ND (0.11)	ND (0.11)	0.21
FLUORANTHENE	5.9	4.1	0.50	0.68	8.1	2.8	14	17	2.7	0.39	0.24	3.4
FLUORENE	2.2	0.85	ND (0.12)	0.15	0.82	1.4	7.7	10	0.91	ND (0.11)	ND (0.11)	1.4
INDENO(1,2,3-CD)PYRENE	0.99	0.79	ND (0.12)	ND (0.13)	2.1	0.46	1.8	2.0	0.53	ND (0.11)	ND (0.11)	0.58
2-METHYLNAPHTHALENE	0.89	0.21	ND (0.12)	ND (0.13)	ND (0.12)	0.88	3.4	2.4	0.45	ND (0.11)	ND (0.11)	0.18
NAPHTHALENE	2.2	0.35	ND (0.12)	ND (0.13)	0.24	3.7	9.6	1.5	1.5	ND (0.11)	ND (0.11)	0.19
PHENANTHRENE	6.9	3.4	0.53	0.81	5.2	4.0	21	25	3.1	0.52	ND (0.11)	4.5
PYRENE	4.6	3.3	0.63	0.63	7.0	1.9	9.0	11	2.3	0.24	0.19	2.2
SM 2540G (% Wt)												
% Solids	79.9	80.4	84.3	77.3	80.7	88.4	91.9	91.3	88.5	91.7	91.0	92.5
SW-846 8081B (mg/Kg dry)												
ALDRIN	ND (0.0061)	ND (0.0061)	ND (0.0058)	ND (0.0063)	ND (0.0059)	ND (0.0056)	ND (0.11)	ND (0.11)	ND (0.0055)	ND (0.0054)	ND (0.0055)	ND (0.0054)
ALPHA-BHC	ND (0.0061)	ND (0.0061)	ND (0.0058)	ND (0.0063)	ND (0.0059)	ND (0.0056)	ND (0.11)	ND (0.11)	ND (0.0055)	ND (0.0054)	ND (0.0055)	ND (0.0054)
BETA-BHC	ND (0.0061)	ND (0.0061)	ND (0.0058)	ND (0.0063)	ND (0.0059)	ND (0.0056)	ND (0.11)	ND (0.11)	ND (0.0055)	ND (0.0054)	ND (0.0055)	ND (0.0054)
DELTA-BHC	ND (0.0061)	ND (0.0061)	ND (0.0058)	ND (0.0063)	ND (0.0059)	ND (0.0056)	ND (0.11)	ND (0.11)	ND (0.0055)	ND (0.0054)	ND (0.0055)	ND (0.0054)
GAMMA-BHC (LINDANE)	ND (0.0025)	ND (0.0024)	ND (0.0023)	ND (0.0025)	ND (0.0024)	ND (0.0022)	ND (0.044)	ND (0.044)	ND (0.0022)	ND (0.0022)	ND (0.0022)	ND (0.0022)
CHLORDANE	ND (0.025)	ND (0.024)	ND (0.023)	ND (0.025)	0.045	ND (0.022)	ND (0.44)	ND (0.44)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)
4,4'-DDD	ND (0.0049)	ND (0.0049)	ND (0.0047)	ND (0.0051)	ND (0.0047)	ND (0.0045)	ND (0.087)	ND (0.088)	ND (0.0044)	ND (0.0043)	ND (0.0044)	ND (0.0043)
4,4'-DDE	0.0086	0.010	0.0050	ND (0.0051)	0.0086	ND (0.0045)	ND (0.087)	ND (0.088)	ND (0.0044)	ND (0.0043)	ND (0.0044)	ND (0.0043)
4,4'-DDT	0.030	0.036	0.031	0.029	0.024	ND (0.0045)	ND (0.087)	ND (0.088)	0.0046	ND (0.0043)	ND (0.0044)	ND (0.0043)
DIELDRIN	ND (0.0049)	ND (0.0049)	ND (0.0047)	ND (0.0051)	ND (0.0047)	ND (0.0045)	ND (0.087)	ND (0.088)	ND (0.0044)	ND (0.0043)	ND (0.0044)	ND (0.0043)
ENDOSULFAN I	ND (0.0061)	ND (0.0061)	ND (0.0058)	ND (0.0063)	ND (0.0059)	ND (0.0056)	ND (0.11)	ND (0.11)	ND (0.0055)	ND (0.0054)	ND (0.0055)	ND (0.0054)
ENDOSULFAN II	ND (0.0098)	ND (0.0098)	ND (0.0093)	ND (0.010)	ND (0.0094)	ND (0.0090)	ND (0.17)	ND (0.18)	ND (0.0089)	ND (0.0086)	ND (0.0088)	ND (0.0086)
ENDOSULFAN SULFATE	ND (0.0098)	ND (0.0098)	ND (0.0093)	ND (0.010)	ND (0.0094)	ND (0.0090)	ND (0.17)	ND (0.18)	ND (0.0089)	ND (0.0086)	ND (0.0088)	ND (0.0086)
ENDRIN	ND (0.0098)	ND (0.0098)	ND (0.0093)	ND (0.010)	ND (0.0094)	ND (0.0090)	ND (0.17)	ND (0.18)	ND (0.0089)	ND (0.0086)	ND (0.0088)	ND (0.0086)
ENDRIN KETONE	ND (0.0098)	ND (0.0098)	ND (0.0093)	ND (0.010)	ND (0.0094)	ND (0.0090)	ND (0.17)	ND (0.18)	ND (0.0089)	ND (0.0086)	ND (0.0088)	ND (0.0086)
HEPTACHLOR	ND (0.0061)	ND (0.0061)	ND (0.0058)	ND (0.0063)	ND (0.0059)	ND (0.0056)	ND (0.11)	ND (0.11)	ND (0.0055)	ND (0.0054)	ND (0.0055)	ND (0.0054)
HEPTACHLOR EPOXIDE	ND (0.0061)	ND (0.0061)	ND (0.0058)	ND (0.0063)	ND (0.0059)	ND (0.0056)	ND (0.11)	ND (0.11)	ND (0.0055)	ND (0.0054)	ND (0.0055)	ND (0.0054)
HEXACHLOROBENZENE	ND (0.0074)	ND (0.0073)	ND (0.0070)	ND (0.0076)	ND (0.0071)	ND (0.0067)	ND (0.13)	ND (0.13)	ND (0.0066)	ND (0.0065)	ND (0.0066)	ND (0.0065)
METHOXYCHLOR	ND (0.061)	ND (0.061)	ND (0.058)	ND (0.063)	ND (0.059)	ND (0.056)	ND (1.1)	ND (1.1)	ND (0.055)	ND (0.054)	ND (0.055)	ND (0.054)
NOTES:												
1. ND = Not detected above the lab repo												
2. NT = Not tested.												

Table 9.3
Evaluation of Analytical Data and Determination of Method to Derive Exposure Point Concentration: RGP-345 Confirmatory Samples

Parameter	SAMPLING LOCATION											
	RGP-345-B25	RGP-345-B26	RGP-345-B27	RGP-345-B28	RGP-345-B29	RGP-345-N5	RGP-345-E8	RGP-345-B30	RGP-345-B31	RGP-345-B32	RGP-345-N7	RGP-345-S6
Sampling Date	7/19/2016 M	8/2/2016	8/2/2016	8/3/2016	8/3/2016	8/3/2016	8/4/2016	8/5/2016	8/5/2016	8/5/2016	8/5/2016	8/5/2016
Sample Location / Elevation	Bottom / 107'	Bottom / 115'	Bottom / 115'	Bottom / 113'	Bottom / 113'	North Wall / 115-121'	East Wall / 113-121'	Bottom / 115'	Bottom / 115'	Bottom / 115'	North Wall / 115-121'	South Wall / 115-121'
Representative of Post-Remedial Conditions?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MADEP-EPH-04-1.1 (mg/Kg dry)												
C9-C18 ALIPHATICS	ND (12)	ND (11)	ND (11)	ND (11)	ND (11)	ND (10)	ND (11)	ND (11)	ND (11)	ND (11)	ND (49)	ND (11)
C19-C36 ALIPHATICS	ND (12)	ND (11)	ND (11)	ND (11)	ND (11)	23	21	ND (11)	ND (11)	ND (11)	87	55
C11-C22 AROMATICS	12	16	ND (11)	ND (11)	ND (11)	56	68	ND (11)	22	ND (11)	72	150
ACENAPHTHENE	0.14	0.19	0.17	0.21	ND (0.11)	0.35	0.45	ND (0.11)	0.20	ND (0.11)	ND (0.49)	0.75
ACENAPHTHYLENE	0.40	0.29	0.16	ND (0.11)	ND (0.11)	ND (0.10)	0.76	ND (0.11)	0.37	ND (0.11)	ND (0.49)	1.1
ANTHRACENE	0.41	0.38	0.22	0.23	ND (0.11)	0.62	1.4	0.11	0.52	ND (0.11)	ND (0.49)	2.7
BENZO(A)ANTHRACENE	0.32	0.49	0.18	0.24	ND (0.11)	1.4	2.0	ND (0.11)	0.69	ND (0.11)	1.0	4.7
BENZO(A)PYRENE	0.27	0.44	0.16	0.22	ND (0.11)	1.5	1.8	ND (0.11)	0.63	ND (0.11)	2.8	4.4
BENZO(B)FLUORANTHENE	0.32	0.54	0.19	0.25	ND (0.11)	1.8	2.2	ND (0.11)	0.79	ND (0.11)	2.2	5.3
BENZO(G,H,I)PERYLENE	0.14	0.24	ND (0.11)	ND (0.11)	ND (0.11)	0.88	1.0	ND (0.11)	0.32	ND (0.11)	1.2	2.2
BENZO(K)FLUORANTHENE	0.14	0.20	ND (0.11)	ND (0.11)	ND (0.11)	0.66	0.82	ND (0.11)	0.29	ND (0.11)	0.76	1.9
CHRYSENE	0.35	0.50	0.18	0.20	ND (0.11)	1.6	2.1	ND (0.11)	0.72	ND (0.11)	1.5	4.9
DIBENZ(A,H)ANTHRACENE	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.49)	0.76
FLUORANTHENE	0.90	1.2	0.52	0.68	ND (0.11)	3.6	5.0	0.19	1.8	ND (0.11)	2.8	11
FLUORENE	0.53	0.42	0.28	0.29	ND (0.11)	0.31	1.5	ND (0.11)	0.65	ND (0.11)	ND (0.49)	2.2
INDENO(1,2,3-CD)PYRENE	0.15	0.24	ND (0.11)	0.12	ND (0.11)	1.0	1.1	ND (0.11)	0.35	ND (0.11)	1.6	2.7
2-METHYLNAPHTHALENE	0.41	0.27	0.20	ND (0.11)	ND (0.11)	ND (0.10)	0.58	ND (0.11)	0.31	ND (0.11)	ND (0.49)	0.73
NAPHTHALENE	1.7	0.93	0.72	0.13	ND (0.11)	0.15	1.4	ND (0.11)	0.97	ND (0.11)	ND (0.49)	1.4
PHENANTHRENE	1.5	1.4	0.86	0.89	ND (0.11)	2.8	5.5	0.24	2.1	ND (0.11)	1.6	9.4
PYRENE	0.49	0.85	0.38	0.50	ND (0.11)	3.4	4.3	0.16	1.5	ND (0.11)	2.5	9.8
SM 2540G (% Wt)												
% Solids	84.4	89.8	89.0	87.4	90.9	96.4	93.5	92.3	89.6	88.4	26.0	88.8
SW-846 8081B (mg/Kg dry)												
ALDRIN	ND (0.0059)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.10)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0055)	ND (0.018)	ND (0.055)
ALPHA-BHC	ND (0.0059)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.10)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0055)	ND (0.018)	ND (0.055)
BETA-BHC	ND (0.0059)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.10)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0055)	ND (0.018)	ND (0.055)
DELTA-BHC	ND (0.0059)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.10)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0055)	ND (0.018)	ND (0.055)
GAMMA-BHC (LINDANE)	ND (0.0024)	ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0022)	ND (0.041)	ND (0.0021)	ND (0.0021)	ND (0.0022)	ND (0.0022)	ND (0.0074)	ND (0.022)
CHLORDANE	ND (0.024)	ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.41)	ND (0.021)	ND (0.021)	ND (0.022)	ND (0.022)	ND (0.074)	ND (0.22)
4,4'-DDD	ND (0.0047)	ND (0.0045)	ND (0.0045)	ND (0.0046)	ND (0.0044)	ND (0.083)	ND (0.0043)	ND (0.0042)	ND (0.0044)	ND (0.0044)	ND (0.015)	ND (0.044)
4,4'-DDE	ND (0.0047)	ND (0.0045)	ND (0.0045)	ND (0.0046)	ND (0.0044)	ND (0.083)	ND (0.0043)	ND (0.0042)	ND (0.0044)	ND (0.0044)	ND (0.015)	ND (0.044)
4,4'-DDT	ND (0.0047)	ND (0.0045)	ND (0.0045)	ND (0.0046)	ND (0.0044)	ND (0.083)	0.015	ND (0.0042)	ND (0.0044)	ND (0.0044)	ND (0.015)	ND (0.044)
DIELDRIN	ND (0.0047)	ND (0.0045)	ND (0.0045)	ND (0.0046)	ND (0.0044)	ND (0.083)	ND (0.0043)	ND (0.0042)	ND (0.0044)	ND (0.0044)	ND (0.015)	ND (0.044)
ENDOSULFAN I	ND (0.0059)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.10)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0055)	ND (0.018)	ND (0.055)
ENDOSULFAN II	ND (0.0095)	ND (0.0089)	ND (0.0090)	ND (0.0092)	ND (0.0088)	ND (0.17)	ND (0.0086)	ND (0.0084)	ND (0.0087)	ND (0.0088)	ND (0.029)	ND (0.089)
ENDOSULFAN SULFATE	ND (0.0095)	ND (0.0089)	ND (0.0090)	ND (0.0092)	ND (0.0088)	ND (0.17)	ND (0.0086)	ND (0.0084)	ND (0.0087)	ND (0.0088)	ND (0.029)	ND (0.089)
ENDRIN	ND (0.0095)	ND (0.0089)	ND (0.0090)	ND (0.0092)	ND (0.0088)	ND (0.17)	ND (0.0086)	ND (0.0084)	ND (0.0087)	ND (0.0088)	ND (0.029)	ND (0.089)
ENDRIN KETONE	ND (0.0095)	ND (0.0089)	ND (0.0090)	ND (0.0092)	ND (0.0088)	ND (0.17)	ND (0.0086)	ND (0.0084)	ND (0.0087)	ND (0.0088)	ND (0.029)	ND (0.089)
HEPTACHLOR	ND (0.0059)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.10)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0055)	ND (0.018)	ND (0.055)
HEPTACHLOR EPOXIDE	ND (0.0059)	ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.10)	ND (0.0053)	ND (0.0053)	ND (0.0054)	ND (0.0055)	ND (0.018)	ND (0.055)
HEXACHLOROBENZENE	ND (0.0071)	ND (0.0067)	ND (0.0067)	ND (0.0069)	ND (0.0066)	ND (0.12)	ND (0.0064)	ND (0.0063)	ND (0.0065)	ND (0.0066)	ND (0.022)	ND (0.067)
METHOXYCHLOR	ND (0.059)	ND (0.056)	ND (0.056)	ND (0.057)	ND (0.055)	ND (1.0)	ND (0.053)	ND (0.053)	ND (0.054)	ND (0.055)	ND (0.18)	ND (0.55)
NOTES:												
1. ND = Not detected above the lab repo												
2. NT = Not tested.												

Table 9.3
Evaluation of Analytical Data and Determination of Method to Derive Exposure Point Concentration: RGP-345 Confirmatory Samples

Parameter	SAMPLING LOCATION	Summary Statistics			Data Evaluation and Determination of Method to Derive Exposure Point Concentration					
	RGP-345-W5	Number Analyzed	Number Detected	Maximum Concentration	Contaminant of Concern	Method 2 S-1 Direct Contact Standard	Number > Method 2 S-1	Percent > Method 2 S-1	Any Data 10X > Method 2 S-1	Method to Derive EPC
Sampling Date	8/5/2016M									
Sample Location / Elevation	West Wall / 115-121'									
Representative of Post-Remedial Conditions?	Yes									
MADEP-EPH-04-1.1 (mg/Kg dry)										
C9-C18 ALIPHATICS	ND (11)	37	1	13	Yes	1000	0	0	No	Mean
C19-C36 ALIPHATICS	17	37	16	96	Yes	3000	0	0	No	Mean
C11-C22 AROMATICS	63	37	29	190	Yes	1000	0	0	No	Mean
ACENAPHTHENE	0.34	37	26	3.8	Yes	1000	0	0	No	Mean
ACENAPHTHYLENE	0.62	37	24	4.2	Yes	1000	0	0	No	Mean
ANTHRACENE	1.3	37	30	6.0	Yes	1000	0	0	No	Mean
BENZO(A)ANTHRACENE	2.2	37	31	12	Yes	7	1	2.7	No	Mean
BENZO(A)PYRENE	2.0	37	31	8.5	Yes	2	9	24	No	Mean
BENZO(B)FLUORANTHENE	2.5	37	31	12	Yes	7	1	2.7	No	Mean
BENZO(G,H,I)PERYLENE	1.0	37	27	3.9	Yes	1000	0	0	No	Mean
BENZO(K)FLUORANTHENE	0.89	37	26	4.4	Yes	70	0	0	No	Mean
CHRYSENE	2.3	37	31	12	Yes	70	0	0	No	Mean
DIBENZ(A,H)ANTHRACENE	0.34	37	17	1.4	Yes	0.7	3	8.1	No	Mean
FLUORANTHENE	5.4	37	34	28	Yes	1000	0	0	No	Mean
FLUORENE	1.1	37	29	10	Yes	1000	0	0	No	Mean
INDENO(1,2,3-CD)PYRENE	1.2	37	27	4.8	Yes	7	0	0	No	Mean
2-METHYLNAPHTHALENE	0.33	37	22	3.4	Yes	300	0	0	No	Mean
NAPHTHALENE	0.57	37	27	9.6	Yes	500	0	0	No	Mean
PHENANTHRENE	5.0	37	33	25	Yes	500	0	0	No	Mean
PYRENE	4.6	37	34	24	Yes	1000	0	0	No	Mean
SM 2540G (% Wt)										
% Solids	90.4									
SW-846 8081B (mg/Kg dry)										
ALDRIN	ND (0.0055)	36	0	0	No					
ALPHA-BHC	ND (0.0055)	36	0	0	No					
BETA-BHC	ND (0.0055)	36	0	0	No					
DELTA-BHC	ND (0.0055)	36	0	0	No					
GAMMA-BHC (LINDANE)	ND (0.0022)	36	0	0	No					
CHLORDANE	ND (0.022)	36	1	0.045	Yes	5	0	0	No	Mean
4,4'-DDD	ND (0.0044)	36	3	0.028	Yes	8	0	0	No	Mean
4,4'-DDE	0.0046	36	10	0.079	Yes	6	0	0	No	Mean
4,4'-DDT	0.024	36	15	0.85	Yes	6	0	0	No	Mean
DIELDRIN	0.0073	36	2	0.038	Yes	0.08	0	0	No	Mean
ENDOSULFAN I	ND (0.0055)	36	0	0	No					
ENDOSULFAN II	ND (0.0088)	36	0	0	No					
ENDOSULFAN SULFATE	ND (0.0088)	36	0	0	No					
ENDRIN	ND (0.0088)	36	0	0	No					
ENDRIN KETONE	ND (0.0088)	36	0	0	No					
HEPTACHLOR	ND (0.0055)	36	0	0	No					
HEPTACHLOR EPOXIDE	ND (0.0055)	36	0	0	No					
HEXACHLOROBENZENE	ND (0.0066)	36	0	0	No					
METHOXYCHLOR	ND (0.055)	36	0	0	No					
NOTES:										
1. ND = Not detected above the lab repo										
2. NT = Not tested.										

Table 9.4
Evaluation of Analytical Data for Final Northern Terminus Confirmatory Samples Collected Near Wetland: RGP-345

Parameter	MassDEP Background Concentrations									Summary Statistics			Data Evaluation	Data Evaluation
	Natural Soils	Soils assoc. with Fill containing Coal Ash	RGP-345-B26	RGP-345-B27	RGP-345-B28	RGP-345-B29	RGP-345-N5	RGP-345-B32	RGP-345-N7	Number Analyzed	Number Detected	Maximum Concentration	Does Maximum Concentration Exceed Background for Natural Soils?	Does Maximum Concentration Exceed Background for Fill?
Sampling Date			8/2/2016	8/2/2016	8/3/2016	8/3/2016	8/3/2016	8/5/2016	8/5/2016					
Sample Location / Elevation			Bottom / 115'	Bottom / 115'	Bottom / 113'	Bottom / 113'	North Wall / 115-121'	Bottom / 115'	North Wall / 115-121'					
Representative of Post-Remedial Northern Terminus Conditions?			Yes	Yes	Yes	Yes	Yes	Yes	Yes					
MADEP-EPH-04-1.1 (mg/Kg dry)														
C9-C18 ALIPHATICS			ND (11)	ND (11)	ND (11)	ND (11)	ND (10)	ND (11)	ND (49)	7	0	0		
C19-C36 ALIPHATICS			ND (11)	ND (11)	ND (11)	ND (11)	23	ND (11)	87	7	2	87		
C11-C22 AROMATICS			16	ND (11)	ND (11)	ND (11)	56	ND (11)	72	7	3	72		
ACENAPHTHENE	0.5	2	0.19	0.17	0.21	ND (0.11)	0.35	ND (0.11)	ND (0.49)	7	4	0.35	No	No
ACENAPHTHYLENE	0.5	1	0.29	0.16	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.49)	7	2	0.29	No	No
ANTHRACENE	1	4	0.38	0.22	0.23	ND (0.11)	0.62	ND (0.11)	ND (0.49)	7	4	0.62	No	No
BENZO(A)ANTHRACENE	2	9	0.49	0.18	0.24	ND (0.11)	1.4	ND (0.11)	1.0	7	5	1.4	No	No
BENZO(A)PYRENE	2	7	0.44	0.16	0.22	ND (0.11)	1.5	ND (0.11)	2.8	7	5	2.8	**Yes**	No
BENZO(B)FLUORANTHENE	2	8	0.54	0.19	0.25	ND (0.11)	1.8	ND (0.11)	2.2	7	5	2.2	**Yes**	No
BENZO(G,H,I)PERYLENE	1	3	0.24	ND (0.11)	ND (0.11)	ND (0.11)	0.88	ND (0.11)	1.2	7	3	1.2	**Yes**	No
BENZO(K)FLUORANTHENE	1	4	0.20	ND (0.11)	ND (0.11)	ND (0.11)	0.66	ND (0.11)	0.76	7	3	0.76	No	No
CHRYSENE	2	7	0.50	0.18	0.20	ND (0.11)	1.6	ND (0.11)	1.5	7	5	1.6	No	No
DIBENZ(A,H)ANTHRACENE	0.5	1	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.49)	7	0	none detected	No	No
FLUORANTHENE	4	10	1.2	0.52	0.68	ND (0.11)	3.6	ND (0.11)	2.8	7	5	3.6	No	No
FLUORENE	1	2	0.42	0.28	0.29	ND (0.11)	0.31	ND (0.11)	ND (0.49)	7	4	0.42	No	No
INDENO(1,2,3-CD)PYRENE	1	3	0.24	ND (0.11)	0.12	ND (0.11)	1.0	ND (0.11)	1.6	7	4	1.6	**Yes**	No
2-METHYLNAPHTHALENE	0.5	1	0.27	0.20	ND (0.11)	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.49)	7	2	0.27	No	No
NAPHTHALENE	0.5	1	0.93	0.72	0.13	ND (0.11)	0.15	ND (0.11)	ND (0.49)	7	4	0.93	**Yes**	No
PHENANTHRENE	3	20	1.4	0.86	0.89	ND (0.11)	2.8	ND (0.11)	1.6	7	5	2.8	No	No
PYRENE	4	20	0.85	0.38	0.50	ND (0.11)	3.4	ND (0.11)	2.5	7	5	3.4	No	No
SM 2540G (% Wt)														
% Solids			89.8	89.0	87.4	90.9	96.4	88.4	26.0					
SW-846 8081B (mg/Kg dry)														
ALDRIN			ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.10)	ND (0.0055)	ND (0.018)	7	0	0		
ALPHA-BHC			ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.10)	ND (0.0055)	ND (0.018)	7	0	0		
BETA-BHC			ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.10)	ND (0.0055)	ND (0.018)	7	0	0		
DELTA-BHC			ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.10)	ND (0.0055)	ND (0.018)	7	0	0		
GAMMA-BHC (LINDANE)			ND (0.0022)	ND (0.0022)	ND (0.0023)	ND (0.0022)	ND (0.041)	ND (0.0022)	ND (0.0074)	7	0	0		
CHLORDANE			ND (0.022)	ND (0.022)	ND (0.023)	ND (0.022)	ND (0.41)	ND (0.022)	ND (0.074)	7	0	0		
4,4'-DDD			ND (0.0045)	ND (0.0045)	ND (0.0046)	ND (0.0044)	ND (0.083)	ND (0.0044)	ND (0.015)	7	0	0		
4,4'-DDE			ND (0.0045)	ND (0.0045)	ND (0.0046)	ND (0.0044)	ND (0.083)	ND (0.0044)	ND (0.015)	7	0	0		
4,4'-DDT			ND (0.0045)	ND (0.0045)	ND (0.0046)	ND (0.0044)	ND (0.083)	ND (0.0044)	ND (0.015)	7	0	0		
DIELDRIN			ND (0.0045)	ND (0.0045)	ND (0.0046)	ND (0.0044)	ND (0.083)	ND (0.0044)	ND (0.015)	7	0	0		
ENDOSULFAN I			ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.10)	ND (0.0055)	ND (0.018)	7	0	0		
ENDOSULFAN II			ND (0.0089)	ND (0.0090)	ND (0.0092)	ND (0.0088)	ND (0.17)	ND (0.0088)	ND (0.029)	7	0	0		
ENDOSULFAN SULFATE			ND (0.0089)	ND (0.0090)	ND (0.0092)	ND (0.0088)	ND (0.17)	ND (0.0088)	ND (0.029)	7	0	0		
ENDRIN			ND (0.0089)	ND (0.0090)	ND (0.0092)	ND (0.0088)	ND (0.17)	ND (0.0088)	ND (0.029)	7	0	0		
ENDRIN KETONE			ND (0.0089)	ND (0.0090)	ND (0.0092)	ND (0.0088)	ND (0.17)	ND (0.0088)	ND (0.029)	7	0	0		
HEPTACHLOR			ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.10)	ND (0.0055)	ND (0.018)	7	0	0		
HEPTACHLOR EPOXIDE			ND (0.0056)	ND (0.0056)	ND (0.0057)	ND (0.0055)	ND (0.10)	ND (0.0055)	ND (0.018)	7	0	0		
HEXACHLOROBENZENE			ND (0.0067)	ND (0.0067)	ND (0.0069)	ND (0.0066)	ND (0.12)	ND (0.0066)	ND (0.022)	7	0	0		
METHOXYCHLOR			ND (0.056)	ND (0.056)	ND (0.057)	ND (0.055)	ND (1.0)	ND (0.055)	ND (0.18)	7	0	0		
NOTES:														
1. ND = Not detected above the lab reporting limits shown in parenthesis.														
2. NT = Not tested.														

Table 9.5
Derivation of Exposure Point Concentration: RGP-345 Confirmatory Samples

Parameter	SAMPLING LOCATION											
	RGP-345-B	RGP-6-W2	RGP-345-B2	RGP-345-E2	RGP-345-B3	RGP-345-B5	RGP-345-B7	RGP-345-B10	RGP-345-B11	RGP-345-S1	RGP-345-W2	RGP-345- B12
Sampling Date	3/4/2016	3/1/2016	3/18/2016	3/18/2016	4/1/2016	4/5/2016	4/8/2016	4/26/2016	4/26/2016	4/26/2016	4/29/2016	4/29/2016
Sample Location / Elevation	Bottom / 119'	West Wall / 127-130'	Bottom / 117'	East Wall / 117-121'	Bottom / 119'	Bottom / 119'	Bottom / 118'	Bottom / 119'	Bottom / 119'	South Wall / 119-125'	West Wall / 119-124'	Bottom / 119'
MADEP-EPH-04-1.1 (mg/Kg dry)												
C9-C18 ALIPHATICS	5.5	12.5	5.5	6.0	7.0	6.5	6.5	7.0	6.5	6.5	13	6.0
C19-C36 ALIPHATICS	5.5	96	5.5	6.0	30	26	24	16	6.5	21	69	15
C11-C22 AROMATICS	5.5	110	15	25	26	98	43	39	190	110	190	41
ACENAPHTHENE	0.055	0.35	0.23	0.25	0.070	0.52	0.18	0.18	1.1	0.55	0.87	0.15
ACENAPHTHYLENE	0.055	12.5	0.15	0.12	0.070	0.90	0.52	0.40	0.45	1.7	1.6	0.54
ANTHRACENE	0.055	0.78	0.32	0.43	0.17	1.4	0.75	0.73	5.5	3.0	3.9	1.0
BENZO(A)ANTHRACENE	0.055	2.0	0.31	0.72	0.21	2.7	1.0	0.90	12	3.7	5.3	1.1
BENZO(A)PYRENE	0.055	1.9	0.24	0.6	0.19	2.6	1.0	0.85	8.5	3.5	4.8	1.0
BENZO(B)FLUORANTHENE	0.055	2.3	0.32	0.79	0.27	3.4	1.1	1.2	12	4.6	6.5	1.4
BENZO(G,H,I)PERYLENE	0.055	1.1	0.13	0.33	0.2	1.1	0.42	0.48	3.9	1.8	2.4	0.58
BENZO(K)FLUORANTHENE	0.055	0.88	0.13	0.33	0.070	1.4	0.34	0.42	4.4	1.8	2.4	0.52
CHRYSENE	0.055	2.1	0.30	0.75	0.25	3.5	0.98	0.88	12	3.6	5.7	1.1
DIBENZ(A,H)ANTHRACENE	0.055	0.32	0.055	0.13	0.070	0.41	0.065	0.070	1.4	0.58	0.76	0.17
FLUORANTHENE	0.055	4.2	0.83	1.7	0.57	8.4	2.6	2.6	28	10	15	3.3
FLUORENE	0.055	0.3	0.42	0.33	0.16	1.7	0.91	0.82	2.7	3.1	3.9	1.1
INDENO(1,2,3-CD)PYRENE	0.055	1.1	0.13	0.37	0.070	1.4	0.44	0.47	4.8	2.0	2.6	0.56
2-METHYLNAPHTHALENE	0.055	12.5	0.18	0.060	0.070	0.87	0.40	0.23	0.33	1.6	1.8	0.34
NAPHTHALENE	0.055	12.5	0.61	0.21	0.14	1.3	1.2	0.27	0.42	2.9	3.5	0.48
PHENANTHRENE	0.055	3.1	1.3	1.6	0.72	10	2.9	2.8	23	11	17	3.8
PYRENE	0.055	4.0	0.54	1.5	0.48	6.3	2.0	2.1	24	8.5	14	2.6
CHLORDANE	0.0115		0.011	0.0125	0.014	0.0125	0.0135	0.13	0.13	0.0125	0.060	0.012
4,4'-DDD	0.0023		0.0022	0.00245	0.028	0.021	0.022	0.0265	0.026	0.025	0.0115	0.0024
4,4'-DDE	0.0023		0.0022	0.00245	0.016	0.013	0.015	0.0265	0.079	0.025	0.066	0.0024
4,4'-DDT	0.0023		0.0022	0.00245	0.0069	0.018	0.010	0.0265	0.85	0.17	0.36	0.011
DIELDRIN	0.0023		0.0022	0.00245	0.0028	0.00255	0.00265	0.0265	0.026	0.025	0.038	0.0024
NOTES:												

Table 9.5
Derivation of Exposure Point Concentration: RGP-345 Confirmatory Samples

Parameter	SAMPLING LOCATION											
	RGP-345-S2	RGP-345- W3	RGP-345-B13	RGP-345-S3	RGP-345-W4	RGP-345-B18	RGP-345-B19	RGP-345-B20	RGP-345-S5	RGP-345-B22	RGP-34S-B23	RGP-345-B24
Sampling Date	4/29/2016	4/29/2016	5/5/2016	5/5/2016	6/20/2016	6/23/2016	6/27/2016	6/27/2016	6/27/2016	7/13/2016	7/14/2016	7/19/2016
Sample Location / Elevation	South Wall / 119-127'	West Wall / 119-127'	Bottom / 119'	South Wall / 119-124'	West Wall / 119-123'	Bottom / 118'	Bottom / 118.5'	Bottom / 118.5'	South Wall / 119-125'	Bottom / 113'	Bottom / 113'	Bottom / 113'
MADEP-EPH-04-1.1 (mg/Kg dry)												
C9-C18 ALIPHATICS	6.0	6.0	6.0	6.5	6.0	5.5	11	5.5	5.5	5.5	5.5	5.5
C19-C36 ALIPHATICS	18	20	6.0	6.5	6.0	5.5	11	5.5	5.5	13	5.5	5.5
C11-C22 AROMATICS	64	47	6.0	13	76	35	130	150	32	17	5.5	36
ACENAPHTHENE	0.45	0.060	0.060	0.065	0.58	0.42	1.2	3.8	0.26	0.055	0.055	0.44
ACENAPHTHYLENE	1.1	0.49	0.060	0.065	0.38	0.79	4.2	3.1	0.58	0.055	0.055	0.63
ANTHRACENE	2.0	1.2	0.060	0.18	1.7	0.97	6.0	5.1	0.88	0.055	0.055	1.2
BENZO(A)ANTHRACENE	2.0	1.5	0.22	0.25	3.6	1.1	5.1	6.0	1.2	0.055	0.055	1.3
BENZO(A)PYRENE	1.8	1.4	0.21	0.24	3.4	0.87	3.7	4.3	0.95	0.055	0.055	1.1
BENZO(B)FLUORANTHENE	2.5	1.9	0.24	0.28	4.3	1.1	4.8	5.4	1.3	0.055	0.055	1.3
BENZO(G,H,I)PERYLENE	0.97	0.76	0.060	0.065	2.0	0.44	1.6	1.9	0.52	0.055	0.055	0.57
BENZO(K)FLUORANTHENE	0.92	0.72	0.060	0.065	1.6	0.43	1.9	2.0	0.50	0.055	0.055	0.53
CHRYSENE	1.9	1.4	0.27	0.30	3.7	1.0	4.9	5.0	1.1	0.055	0.055	1.3
DIBENZ(A,H)ANTHRACENE	0.30	0.23	0.060	0.065	0.59	0.14	0.59	0.65	0.17	0.055	0.055	0.21
FLUORANTHENE	5.9	4.1	0.50	0.68	8.1	2.8	14	17	2.7	0.39	0.24	3.4
FLUORENE	2.2	0.85	0.060	0.15	0.82	1.4	7.7	10	0.91	0.055	0.055	1.4
INDENO(1,2,3-CD)PYRENE	0.99	0.79	0.060	0.065	2.1	0.46	1.8	2.0	0.53	0.055	0.055	0.58
2-METHYLNAPHTHALENE	0.89	0.21	0.060	0.065	0.060	0.88	3.4	2.4	0.45	0.055	0.055	0.18
NAPHTHALENE	2.2	0.35	0.060	0.065	0.24	3.7	9.6	1.5	1.5	0.055	0.055	0.19
PHENANTHRENE	6.9	3.4	0.53	0.81	5.2	4.0	21	25	3.1	0.52	0.055	4.5
PYRENE	4.6	3.3	0.63	0.63	7.0	1.9	9.0	11	2.3	0.24	0.19	2.2
CHLORDANE	0.0125	0.012	0.0115	0.0125	0.045	0.011	0.22	0.22	0.011	0.011	0.011	0.011
4,4'-DDD	0.00245	0.00245	0.00235	0.00255	0.00235	0.00225	0.0435	0.044	0.0022	0.00215	0.0022	0.00215
4,4'-DDE	0.0086	0.010	0.0050	0.00255	0.0086	0.00225	0.0435	0.044	0.0022	0.00215	0.0022	0.00215
4,4'-DDT	0.030	0.036	0.031	0.029	0.024	0.00225	0.0435	0.044	0.0046	0.00215	0.0022	0.00215
DIELDRIN	0.00245	0.00245	0.00235	0.00255	0.00235	0.00225	0.0435	0.044	0.0022	0.00215	0.0022	0.00215
NOTES:												

Table 9.5
Derivation of Exposure Point Concentration: RGP-345 Confirmatory Samples

Parameter	SAMPLING LOCATION											
	RGP-345-B25	RGP-345-B26	RGP-345-B27	RGP-345-B28	RGP-345-B29	RGP-345-N5	RGP-345-E8	RGP-345-B30	RGP-345-B31	RGP-345-B32	RGP-345-N7	RGP-345-S6
Sampling Date	7/19/2016 M	8/2/2016	8/2/2016	8/3/2016	8/3/2016	8/3/2016	8/4/2016	8/5/2016	8/5/2016	8/5/2016	8/5/2016	8/5/2016
Sample Location / Elevation	Bottom / 107'	Bottom / 115'	Bottom / 115'	Bottom / 113'	Bottom / 113'	North Wall / 115-121'	East Wall / 113-121'	Bottom / 115'	Bottom / 115'	Bottom / 115'	North Wall / 115-121'	South Wall / 115-121'
MADEP-EPH-04-1.1 (mg/Kg dry)												
C9-C18 ALIPHATICS	6.0	5.5	5.5	5.5	5.5	5.0	5.5	5.5	5.5	5.5	24.5	5.5
C19-C36 ALIPHATICS	6.0	5.5	5.5	5.5	5.5	23	21	5.5	5.5	5.5	87	55
C11-C22 AROMATICS	12	16	5.5	5.5	5.5	56	68	5.5	22	5.5	72	150
ACENAPHTHENE	0.14	0.19	0.17	0.21	0.055	0.35	0.45	0.055	0.20	0.055	0.245	0.75
ACENAPHTHYLENE	0.40	0.29	0.16	0.055	0.055	0.050	0.76	0.055	0.37	0.055	0.245	1.1
ANTHRACENE	0.41	0.38	0.22	0.23	0.055	0.62	1.4	0.11	0.52	0.055	0.245	2.7
BENZO(A)ANTHRACENE	0.32	0.49	0.18	0.24	0.055	1.4	2.0	0.055	0.69	0.055	1.0	4.7
BENZO(A)PYRENE	0.27	0.44	0.16	0.22	0.055	1.5	1.8	0.055	0.63	0.055	2.8	4.4
BENZO(B)FLUORANTHENE	0.32	0.54	0.19	0.25	0.055	1.8	2.2	0.055	0.79	0.055	2.2	5.3
BENZO(G,H,I)PERYLENE	0.14	0.24	0.055	0.055	0.055	0.88	1.0	0.055	0.32	0.055	1.2	2.2
BENZO(K)FLUORANTHENE	0.14	0.20	0.055	0.055	0.055	0.66	0.82	0.055	0.29	0.055	0.76	1.9
CHRYSENE	0.35	0.50	0.18	0.20	0.055	1.6	2.1	0.055	0.72	0.055	1.5	4.9
DIBENZ(A,H)ANTHRACENE	0.060	0.055	0.055	0.055	0.055	0.050	0.055	0.055	0.055	0.055	0.245	0.76
FLUORANTHENE	0.90	1.2	0.52	0.68	0.055	3.6	5.0	0.19	1.8	0.055	2.8	11
FLUORENE	0.53	0.42	0.28	0.29	0.055	0.31	1.5	0.055	0.65	0.055	0.245	2.2
INDENO(1,2,3-CD)PYRENE	0.15	0.24	0.055	0.12	0.055	1.0	1.1	0.055	0.35	0.055	1.6	2.7
2-METHYLNAPHTHALENE	0.41	0.27	0.20	0.055	0.055	0.050	0.58	0.055	0.31	0.055	0.245	0.73
NAPHTHALENE	1.7	0.93	0.72	0.13	0.055	0.15	1.4	0.055	0.97	0.055	0.245	1.4
PHENANTHRENE	1.5	1.4	0.86	0.89	0.055	2.8	5.5	0.24	2.1	0.055	1.6	9.4
PYRENE	0.49	0.85	0.38	0.50	0.055	3.4	4.3	0.16	1.5	0.055	2.5	9.8
CHLORDANE	0.012	0.011	0.011	0.0115	0.011	0.205	0.0105	0.0105	0.011	0.011	0.037	0.011
4,4'-DDD	0.00235	0.00225	0.00225	0.0023	0.0022	0.0415	0.00215	0.0021	0.0022	0.0022	0.0075	0.0022
4,4'-DDE	0.00235	0.00225	0.00225	0.0023	0.0022	0.0415	0.00215	0.0021	0.0022	0.0022	0.0075	0.0022
4,4'-DDT	0.00235	0.00225	0.00225	0.0023	0.0022	0.0415	0.015	0.0021	0.0022	0.0022	0.0075	0.0022
DIELDRIN	0.00235	0.00225	0.00225	0.0023	0.0022	0.0415	0.00215	0.0021	0.0022	0.0022	0.0075	0.0022
NOTES:												

Table 9.5
Derivation of Exposure Point Concentration: RGP-345 Confirmatory Samples

Parameter	SAMPLING LOCATION	EXPOSURE POINT CONCENTRATION
	RGP-345-W5	Mean
Sampling Date	8/5/2016M	Concentration
Sample Location / Elevation	West Wall / 115-121'	
MADEP-EPH-04-1.1 (mg/Kg dry)		
C9-C18 ALIPHATICS	5.5	6.9
C19-C36 ALIPHATICS	17	18
C11-C22 AROMATICS	63	54
ACENAPHTHENE	0.34	0.41
ACENAPHTHYLENE	0.62	0.94
ANTHRACENE	1.3	1.2
BENZO(A)ANTHRACENE	2.2	1.8
BENZO(A)PYRENE	2.0	1.6
BENZO(B)FLUORANTHENE	2.5	2.0
BENZO(G,H,I)PERYLENE	1.0	0.78
BENZO(K)FLUORANTHENE	0.89	0.74
CHRYSENE	2.3	1.8
DIBENZ(A,H)ANTHRACENE	0.34	0.25
FLUORANTHENE	5.4	4.6
FLUORENE	1.1	1.3
INDENO(1,2,3-CD)PYRENE	1.2	0.87
2-METHYLNAPHTHALENE	0.33	0.82
NAPHTHALENE	0.57	1.4
PHENANTHRENE	5.0	5.0
PYRENE	4.6	3.7
CHLORDANE	0.011	0.038
4,4'-DDD	0.0022	0.0098
4,4'-DDE	0.0046	0.013
4,4'-DDT	0.024	0.051
DIELDRIN	0.0073	0.0089
NOTES:		

Table 10
Summary of Soil Analytical Data: RGP-6

Parameter	SAMPLING LOCATION						
	RGP-6	RGP-6-N-A	RGP-6-W-A	RGP-6-B2	RGP-6-S2	RGP-6-W2	RGP-6-N2
Sampling Date	11/30/2015	1/22/2016	1/22/2016	3/1/2016	3/1/2016	3/1/2016	3/9/2016
Sample Depth	Representative	North Wall	West Wall	Bottom	South Wall	West Wall	North Wall
Excavated from RGP-6?	Yes	Yes	Yes	Yes	Yes	No	Yes
MADEP-EPH-04-1.1 (mg/Kg dry)							
C9-C18 ALIPHATICS	16	NT	NT	24	ND (23)	ND (25)	33
C19-C36 ALIPHATICS	170	NT	NT	100	84	96	330
UNADJUSTED C11-C22 AROMATICS	320	NT	NT	640	200	130	460
C11-C22 AROMATICS	220	NT	NT	410	150	110	320
ACENAPHTHENE	2.1	NT	NT	2.5	0.89	0.35	2.1
ACENAPHTHYLENE	ND (0.12)	NT	NT	2.9	0.42	ND (0.25)	ND (0.22)
ANTHRACENE	4.2	NT	NT	9.0	2.1	0.78	5.2
BENZO(A)ANTHRACENE	7.6	NT	NT	18	4.3	2.0	9.6
BENZO(A)PYRENE	7.0	NT	NT	16	4.0	1.9	8.4
BENZO(B)FLUORANTHENE	8.6	NT	NT	21	5.0	2.3	12
BENZO(G,H,I)PERYLENE	3.8	NT	NT	7.7	2.1	1.1	4.3
BENZO(K)FLUORANTHENE	3.2	NT	NT	7.3	1.8	0.88	4.0
CHRYSENE	8.0	NT	NT	19	4.4	2.1	11
DIBENZ(A,H)ANTHRACENE	0.63	NT	NT	2.5	0.66	0.32	1.3
FLUORANTHENE	18	NT	NT	41	10	4.2	25
FLUORENE	2.3	NT	NT	4.4	1.1	0.30	2.4
INDENO(1,2,3-CD)PYRENE	4.6	NT	NT	9.0	2.4	1.1	4.8
2-METHYLNAPHTHALENE	0.47	NT	NT	1.1	0.33	ND (0.25)	0.64
NAPHTHALENE	0.87	NT	NT	3.2	0.74	ND (0.25)	0.89
PHENANTHRENE	16	NT	NT	25	7.6	3.1	23
PYRENE	18	NT	NT	36	9.3	4.0	24
SM 2540G (% Wt)							
% Solids	84.5	81.5	83.1	87.9	87.2	78.5	90.7
SW-846 6010C/D (mg/Kg dry) Metals Digestion							
ANTIMONY	4.3	NT	NT	NT	NT	NT	NT
ARSENIC	8.5	NT	NT	NT	NT	NT	NT
BARIUM	237	NT	NT	NT	NT	NT	NT
BERYLLIUM	0.49	NT	NT	NT	NT	NT	NT
CADMIUM	1.73	NT	NT	NT	NT	NT	NT
CHROMIUM	28.5	NT	NT	NT	NT	NT	NT
LEAD	644	1100	460	NT	150	100	240
NICKEL	27	NT	NT	NT	NT	NT	NT
SELENIUM	ND (1.4)	NT	NT	NT	NT	NT	NT
SILVER	0.42	NT	NT	NT	NT	NT	NT
THALLIUM	ND (3.1)	NT	NT	NT	NT	NT	NT
VANADIUM	50.1	NT	NT	NT	NT	NT	NT
ZINC	427	NT	NT	NT	NT	NT	NT
SW-846 7471B (mg/Kg dry) Metals Digestion							
MERCURY	0.81	NT	NT	NT	NT	NT	NT
SW-846 6010C (mg/L) 1311 TCLP EXT							
LEAD	1.36	0.49	NT	NT	NT	NT	NT
SW-846 8082A (mg/Kg dry)							
PCB 1016	ND (0.12)	NT	NT	NT	NT	NT	NT
PCB 1221	ND (0.12)	NT	NT	NT	NT	NT	NT
PCB 1232	ND (0.12)	NT	NT	NT	NT	NT	NT
PCB 1242	ND (0.12)	NT	NT	NT	NT	NT	NT
PCB 1248	0.14	NT	NT	NT	NT	NT	NT
PCB 1254	0.20	NT	NT	NT	NT	NT	NT
PCB 1260	ND (0.12)	NT	NT	NT	NT	NT	NT
PCB 1262	ND (0.12)	NT	NT	NT	NT	NT	NT
PCB 1268	ND (0.12)	NT	NT	NT	NT	NT	NT
SW-846 8260C (mg/Kg dry)							
ACETONE	ND (0.13)	NT	NT	NT	ND (0.11)	ND (0.14)	NT
TERT-AMYLMETHYL ETHER	ND (0.0013)	NT	NT	NT	ND (0.0011)	ND (0.0014)	NT
BENZENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
BROMOBENZENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
BROMOCHLOROMETHANE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
BROMODICHLOROMETHANE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
BROMOFORM	ND (0.013)	NT	NT	NT	ND (0.011)	ND (0.014)	NT
BROMOMETHANE	ND (0.013)	NT	NT	NT	ND (0.011)	ND (0.014)	NT
2-BUTANONE (MEK)	ND (0.050)	NT	NT	NT	ND (0.045)	ND (0.055)	NT
N-BUTYLBENZENE	ND (0.0050)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
SEC-BUTYLBENZENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
TERT-BUTYLBENZENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
TERT-BUTYLETHYL ETHER	ND (0.0013)	NT	NT	NT	ND (0.0011)	ND (0.0014)	NT
CARBON DISULFIDE	ND (0.025)	NT	NT	NT	ND (0.0067)	ND (0.0083)	NT
CARBON TETRACHLORIDE	ND (0.0050)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
CHLOROBENZENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT

Table 10
Summary of Soil Analytical Data: RGP-6

Parameter	SAMPLING LOCATION						
	RGP-6	RGP-6-N-A	RGP-6-W-A	RGP-6-B2	RGP-6-S2	RGP-6-W2	RGP-6-N2
Sampling Date	11/30/2015	1/22/2016	1/22/2016	3/1/2016	3/1/2016	3/1/2016	3/9/2016
Sample Depth	Representative	North Wall	West Wall	Bottom	South Wall	West Wall	North Wall
CHLORODIBROMOMETHANE	ND (0.013)	NT	NT	NT	ND (0.0011)	ND (0.0014)	NT
CHLOROETHANE	ND (0.013)	NT	NT	NT	ND (0.011)	ND (0.014)	NT
CHLOROFORM	ND (0.0050)	NT	NT	NT	ND (0.0045)	ND (0.0055)	NT
CHLOROMETHANE	ND (0.013)	NT	NT	NT	ND (0.011)	ND (0.014)	NT
2-CHLOROTOLUENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
4-CHLOROTOLUENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,2-DIBROMO-3-CHLOROPROPANE	ND (0.013)	NT	NT	NT	ND (0.0045)	ND (0.0055)	NT
1,2-DIBROMOETHANE (EDB)	ND (0.0013)	NT	NT	NT	ND (0.0011)	ND (0.0014)	NT
DIBROMOMETHANE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,2-DICHLOROBENZENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,3-DICHLOROBENZENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,4-DICHLOROBENZENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
DICHLORODIFLUOROMETHANE	ND (0.013)	NT	NT	NT	ND (0.011)	ND (0.014)	NT
1,1-DICHLOROETHANE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,2-DICHLOROETHANE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,1-DICHLOROETHYLENE	ND (0.0050)	NT	NT	NT	ND (0.0045)	ND (0.0055)	NT
CIS-1,2-DICHLOROETHYLENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
TRANS-1,2-DICHLOROETHYLENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,2-DICHLOROPROPANE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,3-DICHLOROPROPANE	ND (0.0013)	NT	NT	NT	ND (0.0011)	ND (0.0014)	NT
2,2-DICHLOROPROPANE	ND (0.013)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,1-DICHLOROPROPENE	ND (0.0050)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
CIS-1,3-DICHLOROPROPENE	**ND (0.013) ***	NT	NT	NT	ND (0.0011)	ND (0.0014)	NT
TRANS-1,3-DICHLOROPROPENE	**ND (0.013) ***	NT	NT	NT	ND (0.0045)	ND (0.0055)	NT
DIETHYL ETHER	ND (0.013)	NT	NT	NT	ND (0.011)	ND (0.014)	NT
DIISOPROPYL ETHER	ND (0.0013)	NT	NT	NT	ND (0.0011)	ND (0.0014)	NT
1,4-DIOXANE	ND (0.13)	NT	NT	NT	ND (0.11)	ND (0.14)	NT
ETHYLBENZENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
HEXACHLOROBUTADIENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
2-HEXANONE	ND (0.025)	NT	NT	NT	ND (0.022)	ND (0.028)	NT
ISOPROPYLBENZENE	ND (0.0050)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
P-ISOPROPYLTOLUENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
METHYL TERT-BUTYL ETHER (MTBE)	ND (0.0050)	NT	NT	NT	ND (0.0045)	ND (0.0055)	NT
METHYLENE CHLORIDE	ND (0.013)	NT	NT	NT	ND (0.011)	ND (0.014)	NT
4-METHYL-2-PENTANONE (MIBK)	ND (0.025)	NT	NT	NT	ND (0.022)	ND (0.028)	NT
NAPHTHALENE	ND (0.013)	NT	NT	NT	ND (0.011)	ND (0.014)	NT
N-PROPYLBENZENE	ND (0.0050)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
STYRENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,1,1,2-TETRACHLOROETHANE	ND (0.013)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,1,2,2-TETRACHLOROETHANE	ND (0.0013)	NT	NT	NT	ND (0.0011)	ND (0.0014)	NT
TETRACHLOROETHYLENE	ND (0.013)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
TETRAHYDROFURAN	ND (0.013)	NT	NT	NT	ND (0.011)	ND (0.014)	NT
TOLUENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,2,3-TRICHLOROBENZENE	ND (0.0050)	NT	NT	NT	ND (0.0045)	ND (0.0055)	NT
1,2,4-TRICHLOROBENZENE	ND (0.013)	NT	NT	NT	ND (0.0045)	ND (0.0055)	NT
1,1,1-TRICHLOROETHANE	ND (0.0050)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,1,2-TRICHLOROETHANE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
TRICHLOROETHYLENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
TRICHLOROFLUOROMETHANE	ND (0.013)	NT	NT	NT	ND (0.011)	ND (0.014)	NT
1,2,3-TRICHLOROPROPANE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,2,4-TRIMETHYLBENZENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
1,3,5-TRIMETHYLBENZENE	ND (0.013)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
VINYL CHLORIDE	ND (0.013)	NT	NT	NT	ND (0.011)	ND (0.014)	NT
M/P-XYLENE	ND (0.0050)	NT	NT	NT	ND (0.0045)	ND (0.0055)	NT
O-XYLENE	ND (0.0025)	NT	NT	NT	ND (0.0022)	ND (0.0028)	NT
SW-846 8270D (mg/Kg dry)							
ACENAPHTHENE	1.0	2.8	1.8	NT	NT	NT	NT
ACENAPHTHYLENE	ND (0.20)	ND (1.0)	ND (1.0)	NT	NT	NT	NT
ACETOPHENONE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
ANILINE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
ANTHRACENE	2.0	8.8	5.1	NT	NT	NT	NT
BENZO(A)ANTHRACENE	4.1	22	16	NT	NT	NT	NT
BENZO(A)PYRENE	3.6	21	15	NT	NT	NT	NT
BENZO(B)FLUORANTHENE	4.3	24	18	NT	NT	NT	NT
BENZO(G,H,I)PERYLENE	1.8	11	7.8	NT	NT	NT	NT
BENZO(K)FLUORANTHENE	1.8	10	6.7	NT	NT	NT	NT
BIS(2-CHLOROETHOXY)METHANE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
BIS(2-CHLOROETHYL)ETHER	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
BIS(2-CHLOROISOPROPYL)ETHER	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
BIS(2-ETHYLHEXYL)PHTHALATE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT

Table 10
Summary of Soil Analytical Data: RGP-6

Parameter	SAMPLING LOCATION						
	RGP-6	RGP-6-N-A	RGP-6-W-A	RGP-6-B2	RGP-6-S2	RGP-6-W2	RGP-6-N2
Sampling Date	11/30/2015	1/22/2016	1/22/2016	3/1/2016	3/1/2016	3/1/2016	3/9/2016
Sample Depth	Representative	North Wall	West Wall	Bottom	South Wall	West Wall	North Wall
4-BROMOPHENYL PHENYL ETHER	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
BUTYLBENZYLPHTHALATE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
4-CHLOROANILINE	ND (0.78)	ND (4.0)	ND (3.9)	NT	NT	NT	NT
2-CHLORONAPHTHALENE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
2-CHLOROPHENOL	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
CHRYSENE	4.0	22	15	NT	NT	NT	NT
DIBENZ(A,H)ANTHRACENE	0.49	2.7	2.1	NT	NT	NT	NT
DIBENZOFURAN	0.70	2.4	ND (2.0)	NT	NT	NT	NT
DI-N-BUTYLPHTHALATE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
1,2-DICHLOROBENZENE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
1,3-DICHLOROBENZENE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
1,4-DICHLOROBENZENE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
3,3'-DICHLOROBENZIDINE	ND (0.20)	ND (1.0)	ND (1.0)	NT	NT	NT	NT
2,4-DICHLOROPHENOL	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
DIETHYLPHTHALATE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
2,4-DIMETHYLPHENOL	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
DIMETHYLPHTHALATE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
2,4-DINITROPHENOL	ND (0.78)	ND (4.0)	ND (3.9)	NT	NT	NT	NT
2,4-DINITROTOLUENE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
2,6-DINITROTOLUENE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
DI-N-OCTYLPHTHALATE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
FLUORANTHENE	9.5	45	34	NT	NT	NT	NT
FLUORENE	1.1	3.8	2.2	NT	NT	NT	NT
HEXACHLOROBENZENE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
HEXACHLOROBUTADIENE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
HEXACHLOROETHANE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
INDENO(1,2,3-CD)PYRENE	2.0	12	8.9	NT	NT	NT	NT
ISOPHORONE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
2-METHYLNAPHTHALENE	0.27	1.2	ND (1.0)	NT	NT	NT	NT
O-CRESOL	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
M/P-CRESOL	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
NAPHTHALENE	0.47	3.2	1.3	NT	NT	NT	NT
NITROBENZENE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
2-NITROPHENOL	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
4-NITROPHENOL	ND (0.78)	ND (4.0)	ND (3.9)	NT	NT	NT	NT
PENTACHLOROPHENOL	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
PHENANTHRENE	9.5	32	23	NT	NT	NT	NT
PHENOL	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
PYRENE	7.9	39	29	NT	NT	NT	NT
1,2,4-TRICHLOROBENZENE	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
2,4,5-TRICHLOROPHENOL	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
2,4,6-TRICHLOROPHENOL	ND (0.40)	ND (2.1)	ND (2.0)	NT	NT	NT	NT
MADEP-VPH-04-1.1 (mg/Kg dry)							
UNADJUSTED C5-C8 ALIPHATICS	NT	NT	NT	ND (41)	ND (8.6)	ND (12)	NT
C5-C8 ALIPHATICS	NT	NT	NT	ND (41)	ND (8.6)	ND (12)	NT
UNADJUSTED C9-C12 ALIPHATICS	NT	NT	NT	ND (41)	ND (8.6)	ND (12)	NT
C9-C12 ALIPHATICS	NT	NT	NT	ND (41)	ND (8.6)	ND (12)	NT
C9-C10 AROMATICS	NT	NT	NT	ND (41)	ND (8.6)	ND (12)	NT
BENZENE	NT	NT	NT	ND (0.20)	ND (0.043)	ND (0.061)	NT
ETHYLBENZENE	NT	NT	NT	ND (0.20)	ND (0.043)	ND (0.061)	NT
METHYL TERT-BUTYL ETHER (MTBE)	NT	NT	NT	ND (0.20)	ND (0.043)	ND (0.061)	NT
NAPHTHALENE	NT	NT	NT	ND (1.0)	ND (0.21)	ND (0.31)	NT
TOLUENE	NT	NT	NT	ND (0.20)	ND (0.043)	ND (0.061)	NT
M/P-XYLENE	NT	NT	NT	ND (0.41)	ND (0.086)	ND (0.12)	NT
O-XYLENE	NT	NT	NT	ND (0.20)	ND (0.043)	ND (0.061)	NT
NOTES:							
1. ND = Not detected above the lab reporting limits shown in parenthesis.							
2. NT = Not tested.							

Table 11.1
Remediation RAM Summary of Disposal Criteria Data for Lot 42 EP3A (RGP-7)

Parameter	STOCKPILES FROM LOT 42 EP3A			
	CT-Disposal-1	CT-Disposal-1	42-3	42-3-SP
Sampling Date	9/25/2015	9/25/2015	10/5/2015	10/5/2015
Sample Depth	Stockpile	Stockpile	Stockpile	Stockpile
ASTM D-4239				
SULFUR	0.15	NT	NT	NT
SM 2540G (% Wt)				
% Solids	94.2	94.2	88.7	90.5
SW-846 1010A (°F)				
FLASHPOINT	> 212 °F	NT	> 212 °F	NT
SW-846 1030 (present/absent)				
IGNITABILITY	Present	NT	Absent	NT
SW-846 6010C (mg/Kg dry) Metals Digestion				
ARSENIC	2.7	NT	8.7	NT
BARIUM	55	NT	100	NT
CADMIUM	0.57	NT	0.81	NT
CHROMIUM	6.6	NT	19	NT
LEAD	440	NT	230	NT
SELENIUM	ND (5.3)	NT	ND (5.5)	NT
SILVER	ND (0.53)	NT	ND (0.55)	NT
SW-846 7471B (mg/Kg dry) Metals Digestion				
MERCURY	0.10	NT	0.41	NT
SW-846 6010 TCLP (mg/L) 1311 TCLP EXT				
LEAD, TCLP	***6.1***	NT	0.32	NT
SW-846 8082A (mg/Kg dry)				
PCB 1016	ND (0.10)	NT	ND (0.11)	NT
PCB 1221	ND (0.10)	NT	ND (0.11)	NT
PCB 1232	ND (0.10)	NT	ND (0.11)	NT
PCB 1242	ND (0.10)	NT	ND (0.11)	NT
PCB 1248	ND (0.10)	NT	ND (0.11)	NT
PCB 1254	ND (0.10)	NT	ND (0.11)	NT
PCB 1260	ND (0.10)	NT	0.14	NT
PCB 1262	ND (0.10)	NT	ND (0.11)	NT
PCB 1268	ND (0.10)	NT	ND (0.11)	NT
SW-846 8100 Modified (mg/Kg dry)				
TPH	83000	NT	1500	NT
SW-846 8260C (mg/Kg dry)				
ACETONE	NT	ND (4400)	ND (590)	NT
TERT-AMYLMETHYL ETHER	NT	ND (44)	ND (5.9)	NT
BENZENE	NT	ND (87)	14	NT
BROMOBENZENE	NT	ND (87)	ND (12)	NT
BROMOCHLOROMETHANE	NT	ND (87)	ND (12)	NT
BROMODICHLOROMETHANE	NT	ND (87)	ND (12)	NT
BROMOFORM	NT	ND (87)	ND (12)	NT
BROMOMETHANE	NT	ND (170)	ND (23)	NT
2-BUTANONE (MEK)	NT	ND (1700)	ND (230)	NT
N-BUTYLBENZENE	NT	ND (87)	ND (12)	NT
SEC-BUTYLBENZENE	NT	ND (87)	ND (12)	NT
TERT-BUTYLBENZENE	NT	ND (87)	ND (12)	NT
TERT-BUTYLETHYL ETHER	NT	ND (44)	ND (5.9)	NT
CARBON DISULFIDE	NT	ND (870)	ND (120)	NT
CARBON TETRACHLORIDE	NT	ND (87)	ND (12)	NT
CHLOROBENZENE	NT	ND (87)	ND (12)	NT
CHLORODIBROMOMETHANE	NT	ND (44)	ND (5.9)	NT
CHLOROETHANE	NT	ND (170)	ND (23)	NT
CHLOROFORM	NT	ND (170)	ND (23)	NT
CHLOROMETHANE	NT	ND (170)	ND (23)	NT
2-CHLOROTOLUENE	NT	ND (87)	ND (12)	NT
4-CHLOROTOLUENE	NT	ND (87)	ND (12)	NT
1,2-DIBROMO-3-CHLOROPROPANE	NT	ND (350)	ND (47)	NT
1,2-DIBROMOETHANE (EDB)	NT	ND (44)	ND (5.9)	NT
DIBROMOMETHANE	NT	ND (87)	ND (12)	NT
1,2-DICHLOROBENZENE	NT	ND (87)	ND (12)	NT
1,3-DICHLOROBENZENE	NT	ND (87)	ND (12)	NT
1,4-DICHLOROBENZENE	NT	ND (87)	ND (12)	NT
DICHLORODIFLUOROMETHANE	NT	ND (170)	ND (23)	NT
1,1-DICHLOROETHANE	NT	ND (87)	ND (12)	NT
1,2-DICHLOROETHANE	NT	ND (87)	ND (12)	NT
1,1-DICHLOROETHYLENE	NT	ND (87)	ND (12)	NT
CIS-1,2-DICHLOROETHYLENE	NT	ND (87)	ND (12)	NT
TRANS-1,2-DICHLOROETHYLENE	NT	ND (87)	ND (12)	NT
1,2-DICHLOROPROPANE	NT	ND (87)	ND (12)	NT
1,3-DICHLOROPROPANE	NT	ND (44)	ND (5.9)	NT
2,2-DICHLOROPROPANE	NT	ND (87)	ND (12)	NT

Table 11.1
Remediation RAM Summary of Disposal Criteria Data for Lot 42 EP3A (RGP-7)

Parameter	STOCKPILES FROM LOT 42 EP3A			
	CT-Disposal-1	CT-Disposal-1	42-3	42-3-SP
Sampling Date	9/25/2015	9/25/2015	10/5/2015	10/5/2015
Sample Depth	Stockpile	Stockpile	Stockpile	Stockpile
1,1-DICHLOROPROPENE	NT	ND (170)	ND (23)	NT
CIS-1,3-DICHLOROPROPENE	NT	ND (44)	ND (5.9)	NT
TRANS-1,3-DICHLOROPROPENE	NT	ND (44)	ND (5.9)	NT
DIETHYL ETHER	NT	ND (170)	ND (23)	NT
DIISOPROPYL ETHER	NT	ND (44)	ND (5.9)	NT
1,4-DIOXANE	NT	ND (4400)	ND (590)	NT
ETHYLBENZENE	NT	ND (87)	ND (12)	NT
HEXACHLOROBUTADIENE	NT	ND (87)	ND (12)	NT
2-HEXANONE	NT	ND (870)	ND (120)	NT
ISOPROPYLBENZENE	NT	ND (87)	ND (12)	NT
P-ISOPROPYLTOLUENE	NT	ND (87)	ND (12)	NT
METHYL TERT-BUTYL ETHER (MTBE)	NT	ND (87)	ND (12)	NT
METHYLENE CHLORIDE	NT	ND (440)	ND (59)	NT
4-METHYL-2-PENTANONE (MIBK)	NT	ND (870)	ND (120)	NT
NAPHTHALENE	NT	6200	4200	NT
N-PROPYLBENZENE	NT	ND (87)	ND (12)	NT
STYRENE	NT	ND (87)	ND (12)	NT
1,1,1,2-TETRACHLOROETHANE	NT	ND (87)	ND (12)	NT
1,1,2,2-TETRACHLOROETHANE	NT	ND (44)	ND (5.9)	NT
TETRACHLOROETHYLENE	NT	ND (87)	ND (12)	NT
TETRAHYDROFURAN	NT	ND (350)	ND (47)	NT
TOLUENE	NT	ND (87)	14	NT
1,2,3-TRICHLOROBENZENE	NT	ND (350)	ND (47)	NT
1,2,4-TRICHLOROBENZENE	NT	ND (87)	ND (12)	NT
1,1,1-TRICHLOROETHANE	NT	ND (87)	ND (12)	NT
1,1,2-TRICHLOROETHANE	NT	ND (87)	ND (12)	NT
TRICHLOROETHYLENE	NT	ND (87)	ND (12)	NT
TRICHLOROFLUOROMETHANE	NT	ND (170)	ND (23)	NT
1,2,3-TRICHLOROPROPANE	NT	ND (170)	ND (23)	NT
1,2,4-TRIMETHYLBENZENE	NT	ND (87)	ND (12)	NT
1,3,5-TRIMETHYLBENZENE	NT	ND (87)	ND (12)	NT
VINYL CHLORIDE	NT	ND (170)	ND (23)	NT
M/P-XYLENE	NT	ND (170)	ND (23)	NT
O-XYLENE	NT	ND (87)	ND (12)	NT
SW-846 8260C (mg/L) 1311 TCLP ZHE				
BENZENE	NT	0.24	0.018	NT
2-BUTANONE (MEK)	NT	ND (2.0)	ND (0.20)	NT
CARBON TETRACHLORIDE	NT	ND (0.50)	ND (0.050)	NT
CHLOROBENZENE	NT	ND (0.10)	ND (0.010)	NT
CHLOROFORM	NT	ND (0.20)	ND (0.020)	NT
1,4-DICHLOROBENZENE	NT	ND (0.10)	ND (0.010)	NT
1,2-DICHLOROETHANE	NT	ND (0.10)	ND (0.010)	NT
1,1-DICHLOROETHYLENE	NT	ND (0.10)	ND (0.010)	NT
TETRACHLOROETHYLENE	NT	ND (0.10)	ND (0.010)	NT
TRICHLOROETHYLENE	NT	ND (0.10)	ND (0.010)	NT
VINYL CHLORIDE	NT	ND (0.20)	ND (0.020)	NT
SW-846 8270D (mg/Kg dry)				
ACENAPHTHENE	160	NT	ND (0.77)	NT
ACENAPHTHYLENE	2000	NT	3.0	NT
ACETOPHENONE	ND (110)	NT	ND (1.5)	NT
ANILINE	ND (110)	NT	ND (1.5)	NT
ANTHRACENE	2100	NT	3.8	NT
BENZO(A)ANTHRACENE	1900	NT	11	NT
BENZO(A)PYRENE	1400	NT	9.1	NT
BENZO(B)FLUORANTHENE	1600	NT	12	NT
BENZO(G,H,I)PERYLENE	680	NT	3.7	NT
BENZO(K)FLUORANTHENE	550	NT	4.4	NT
BIS(2-CHLOROETHOXY)METHANE	ND (110)	NT	ND (1.5)	NT
BIS(2-CHLOROETHYL)ETHER	ND (110)	NT	ND (1.5)	NT
BIS(2-CHLOROISOPROPYL)ETHER	ND (110)	NT	ND (1.5)	NT
BIS(2-ETHYLHEXYL)PHTHALATE	ND (110)	NT	ND (1.5)	NT
4-BROMOPHENYL PHENYL ETHER	ND (110)	NT	ND (1.5)	NT
BUTYLBENZYLPHTHALATE	ND (110)	NT	ND (1.5)	NT
4-CHLOROANILINE	ND (210)	NT	ND (3.0)	NT
2-CHLORONAPHTHALENE	ND (110)	NT	ND (1.5)	NT
2-CHLOROPHENOL	ND (110)	NT	ND (1.5)	NT
CHRYSENE	1800	NT	9.2	NT
DIBENZ(A,H)ANTHRACENE	230	NT	1.2	NT
DIBENZOFURAN	1700	NT	1.6	NT
DI-N-BUTYLPHTHALATE	ND (110)	NT	ND (1.5)	NT

Table 11.1
Remediation RAM Summary of Disposal Criteria Data for Lot 42 EP3A (RGP-7)

Parameter	STOCKPILES FROM LOT 42 EP3A			
	CT-Disposal-1	CT-Disposal-1	42-3	42-3-SP
Sampling Date	9/25/2015	9/25/2015	10/5/2015	10/5/2015
Sample Depth	Stockpile	Stockpile	Stockpile	Stockpile
1,2-DICHLOROBENZENE	ND (110)	NT	ND (1.5)	NT
1,3-DICHLOROBENZENE	ND (110)	NT	ND (1.5)	NT
1,4-DICHLOROBENZENE	ND (110)	NT	ND (1.5)	NT
3,3'-DICHLOROBENZIDINE	ND (53)	NT	ND (0.77)	NT
2,4-DICHLOROPHENOL	ND (110)	NT	ND (1.5)	NT
DIETHYLPHTHALATE	ND (110)	NT	ND (1.5)	NT
2,4-DIMETHYLPHENOL	ND (110)	NT	ND (1.5)	NT
DIMETHYLPHTHALATE	ND (110)	NT	ND (1.5)	NT
2,4-DINITROPHENOL	ND (210)	NT	ND (3.0)	NT
2,4-DINITROTOLUENE	ND (110)	NT	ND (1.5)	NT
2,6-DINITROTOLUENE	ND (110)	NT	ND (1.5)	NT
DI-N-OCTYLPHTHALATE	ND (110)	NT	ND (1.5)	NT
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	ND (110)	NT	ND (1.5)	NT
FLUORANTHENE	5000	NT	26	NT
FLUORENE	2800	NT	3.4	NT
HEXACHLOROBENZENE	ND (110)	NT	ND (1.5)	NT
HEXACHLOROBUTADIENE	ND (110)	NT	ND (1.5)	NT
HEXACHLOROETHANE	ND (110)	NT	ND (1.5)	NT
INDENO(1,2,3-CD)PYRENE	790	NT	4.6	NT
ISOPHORONE	ND (110)	NT	ND (1.5)	NT
2-METHYLNAPHTHALENE	2300	NT	2.9	NT
O-CRESOL	110	NT	ND (1.5)	NT
M/P-CRESOL	290	NT	ND (1.5)	NT
NAPHTHALENE	10000	NT	26	NT
NITROBENZENE	ND (110)	NT	ND (1.5)	NT
2-NITROPHENOL	ND (110)	NT	ND (1.5)	NT
4-NITROPHENOL	ND (210)	NT	ND (3.0)	NT
PENTACHLOROPHENOL	ND (110)	NT	ND (1.5)	NT
PHENANTHRENE	8200	NT	17	NT
PHENOL	250	NT	ND (1.5)	NT
PYRENE	3500	NT	21	NT
1,2,4-TRICHLOROBENZENE	ND (110)	NT	ND (1.5)	NT
2,4,5-TRICHLOROPHENOL	ND (110)	NT	ND (1.5)	NT
2,4,6-TRICHLOROPHENOL	ND (110)	NT	ND (1.5)	NT
SW-846 8270D (mg/L) 1311 TCLP EXT				
2,4-DINITROTOLUENE	ND (0.010)	NT	ND (0.050)	NT
HEXACHLOROBENZENE	ND (0.010)	NT	ND (0.050)	NT
HEXACHLOROBUTADIENE	ND (0.010)	NT	ND (0.050)	NT
HEXACHLOROETHANE	ND (0.010)	NT	ND (0.050)	NT
O-CRESOL	1.1	NT	0.14	NT
M/P-CRESOL	3.0	NT	0.43	NT
NITROBENZENE	ND (0.010)	NT	ND (0.050)	NT
PENTACHLOROPHENOL	ND (0.010)	NT	ND (0.050)	NT
PYRIDINE	0.020	NT	ND (0.025)	NT
2,4,5-TRICHLOROPHENOL	ND (0.010)	NT	ND (0.050)	NT
2,4,6-TRICHLOROPHENOL	ND (0.010)	NT	ND (0.050)	NT
SW-846 9014 (mg/Kg dry)				
CYANIDE	3.1	NT	NT	NT
SW-846 9045C (pH Units)				
PH	10	NT	7.8	NT
MADEP-EPH-04-1.1 (mg/Kg dry)				
C9-C18 ALIPHATICS	NT	NT	NT	12
C19-C36 ALIPHATICS	NT	NT	NT	52
UNADJUSTED C11-C22 AROMATICS	NT	NT	NT	220
C11-C22 AROMATICS	NT	NT	NT	160
ACENAPHTHENE	NT	NT	NT	0.54
ACENAPHTHYLENE	NT	NT	NT	0.55
ANTHRACENE	NT	NT	NT	2.1
BENZO(A)ANTHRACENE	NT	NT	NT	5.0
BENZO(A)PYRENE	NT	NT	NT	**4.9**
BENZO(B)FLUORANTHENE	NT	NT	NT	6.4
BENZO(G,H,I)PERYLENE	NT	NT	NT	2.4
BENZO(K)FLUORANTHENE	NT	NT	NT	2.1
CHRYSENE	NT	NT	NT	5.2
DIBENZ(A,H)ANTHRACENE	NT	NT	NT	0.78
FLUORANTHENE	NT	NT	NT	11
FLUORENE	NT	NT	NT	0.85
INDENO(1,2,3-CD)PYRENE	NT	NT	NT	2.7
2-METHYLNAPHTHALENE	NT	NT	NT	0.22
NAPHTHALENE	NT	NT	NT	0.42

Table 11.1
Remediation RAM Summary of Disposal Criteria Data for Lot 42 EP3A (RGP-7)

Parameter	STOCKPILES FROM LOT 42 EP3A			
	CT-Disposal-1	CT-Disposal-1	42-3	42-3-SP
Sampling Date	9/25/2015	9/25/2015	10/5/2015	10/5/2015
Sample Depth	Stockpile	Stockpile	Stockpile	Stockpile
PHENANTHRENE	NT	NT	NT	6.7
PYRENE	NT	NT	NT	10
NOTES:				
ND = Not detected above the lab reporting limits shown in parenthesis.				
NT = Not tested.				

Table 11.2
Calculation of Soil Exposure Point Concentrations: Lot 42 EP3A / RGP-7

Parameter	Site-Specific	SAMPLING LOCATION: LOT 42 EP3A / RGP-7				
	Clean-up	42-3-B	42-3-E	42-3-N	42-3-W	42-3-S
Sampling Date	Standards	10/5/2015	10/5/2015	10/5/2015	10/5/2015	10/5/2015
Excavated - No Longer Representative		Yes	Yes	Yes	Yes	Yes
Sample Depth		4 Feet	0-4 Feet	0-4 Feet	0-4 Feet	0-3 Feet
MADEP-EPH-04-1.1 (mg/Kg dry)						
C9-C18 ALIPHATICS		13	5.5	5.5	5.5	12
C19-C36 ALIPHATICS		47	75	39	46	36
C11-C22 AROMATICS	3000	210	150	180	260	160
ACENAPHTHENE		0.67	0.57	0.66	1.1	0.71
ACENAPHTHYLENE		1.9	0.35	0.87	2.2	0.42
ANTHRACENE		4.5	1.7	2.6	5.7	2.5
BENZO(A)ANTHRACENE	**9**	**9.2**	3.9	6.7	**10**	5.6
BENZO(A)PYRENE	**2**	**8.1**	**3.7**	**6.0**	**9.5**	**5.9**
BENZO(B)FLUORANTHENE	**9**	**10**	4.6	7.9	**12**	7.0
BENZO(G,H,I)PERYLENE		3.4	2.0	2.9	5	2.7
BENZO(K)FLUORANTHENE	9	4.0	1.7	3.0	4.4	2.4
CHRYSENE	**9**	8.7	4.3	6.7	**11**	5.9
DIBENZ(A,H)ANTHRACENE	2	1.3	0.62	1.0	1.7	0.84
FLUORANTHENE		21	9.2	16	25	13
FLUORENE		2.6	0.82	1.2	3.6	1.0
INDENO(1,2,3-CD)PYRENE	9	4.1	2.4	3.4	5.3	3.3
2-METHYLNAPHTHALENE	300	0.39	0.22	0.28	0.84	0.25
NAPHTHALENE	300	1	0.37	0.51	2.2	0.47
PHENANTHRENE	300	14	6.8	9.4	18	8.6
PYRENE		18	8.7	14	21	12
MADEP-VPH-04-1.1 (mg/Kg wet)						
UNADJUSTED C5-C8 ALIPHATICS		NT	NT	NT	NT	NT
C5-C8 ALIPHATICS		NT	NT	NT	NT	NT
UNADJUSTED C9-C12 ALIPHATICS		NT	NT	NT	NT	NT
C9-C12 ALIPHATICS		NT	NT	NT	NT	NT
C9-C10 AROMATICS		NT	NT	NT	NT	NT
BENZENE		NT	NT	NT	NT	NT
ETHYLBENZENE		NT	NT	NT	NT	NT
METHYL TERT-BUTYL ETHER (MTBE)		NT	NT	NT	NT	NT
NAPHTHALENE	300	NT	NT	NT	NT	NT
TOLUENE		NT	NT	NT	NT	NT
M/P-XYLENE		NT	NT	NT	NT	NT
O-XYLENE		NT	NT	NT	NT	NT
SM 2540G (% Wt)						
% Solids		95.3	92.6	92.1	92.3	88.4
NOTES:						
ND = Not detected above the lab reporting limits shown in parenthesis.						
NT = Not tested.						

Table 11.2
Calculation of Soil Exposure Point Concentrations: Lot 42 EP3A / RGP-7

Parameter	Site-Specific	SAMPLING LOCATION: LOT 42 EP3A / RGP-7							Exposure Point Concentration	
	Clean-up	42-3-2	RGP-7	RGP-7-BE	RGP-7-BW	RGP-7-N	RGP-7-S	RGP-7-W		RGP-7-SP
Sampling Date	Standards	10/5/2015	1/22/2016	2/22/2016	2/22/2016	2/22/2016	2/22/2016	2/22/2016		2/22/2016
Excavated - No Longer Representative										Yes
Sample Depth		8 Feet		8 Feet	8 Feet	0-8 Feet	0-8 Feet	0-8 Feet		Stockpile
MADEP-EPH-04-1.1 (mg/Kg dry)										
C9-C18 ALIPHATICS		15	NT	11	31	11	11.5	25	17	ND (23)
C19-C36 ALIPHATICS		110	NT	67	86	76	81	94	86	71
C11-C22 AROMATICS	3000	160	NT	150	210	110	150	190	162	240
ACENAPHTHENE		0.69	NT	1.3	1	0.36	0.78	1.0	0.86	1.6
ACENAPHTHYLENE		0.11	NT	0.11	1.3	0.49	0.25	0.61	0.48	5.8
ANTHRACENE		1.8	NT	3	3.5	1.2	2.6	3.7	2.6	8.2
BENZO(A)ANTHRACENE	**9**	3.9	NT	4.2	6.4	2.2	4.6	6.9	4.7	7.8
BENZO(A)PYRENE	**2**	**3.7**	NT	**3.4**	**5.3**	2.0	**3.6**	**5.7**	4.0	6.1
BENZO(B)FLUORANTHENE	**9**	5.2	NT	4.4	7	2.7	4.9	7.5	5.3	7.7
BENZO(G,H,I)PERYLENE		2.0	NT	1.7	2.6	1.1	1.8	2.7	2.0	2.7
BENZO(K)FLUORANTHENE	9	1.8	NT	1.7	2.6	1	1.7	2.8	1.9	3
CHRYSENE	**9**	4.5	NT	4.3	6.4	2.3	4.6	6.9	4.8	7.7
DIBENZ(A,H)ANTHRACENE	2	0.63	NT	0.11	0.94	0.11	0.115	0.89	0.47	0.93
FLUORANTHENE		9.2	NT	11	15	5.4	11	17	11	20
FLUORENE		0.87	NT	1.3	2.6	0.9	1.3	1.8	1.5	9.5
INDENO(1,2,3-CD)PYRENE	9	2.4	NT	2	3.3	1.2	2.2	3.4	2.4	3.2
2-METHYLNAPHTHALENE	300	0.26	NT	0.25	1	0.22	0.38	0.41	0.42	6
NAPHTHALENE	300	0.41	NT	0.37	3.2	0.34	0.51	0.8	0.94	26
PHENANTHRENE	300	7.0	NT	11	13	4.1	9.9	14	9.8	27
PYRENE		8.8	NT	11	13	4.6	9.7	15	10	16
MADEP-VPH-04-1.1 (mg/Kg wet)										
UNADJUSTED C5-C8 ALIPHATICS		NT	ND (11)	NT	NT	NT	NT	NT		NT
C5-C8 ALIPHATICS		NT	ND (11)	NT	NT	NT	NT	NT		NT
UNADJUSTED C9-C12 ALIPHATICS		NT	ND (11)	NT	NT	NT	NT	NT		NT
C9-C12 ALIPHATICS		NT	ND (11)	NT	NT	NT	NT	NT		NT
C9-C10 AROMATICS		NT	ND (11)	NT	NT	NT	NT	NT		NT
BENZENE		NT	0.063	NT	NT	NT	NT	NT	NO CHANGE	NT
ETHYLBENZENE		NT	ND (0.053)	NT	NT	NT	NT	NT		NT
METHYL TERT-BUTYL ETHER (MTBE)		NT	ND (0.053)	NT	NT	NT	NT	NT		NT
NAPHTHALENE	300	NT	1.1	NT	NT	NT	NT	NT	NO CHANGE	NT
TOLUENE		NT	ND (0.053)	NT	NT	NT	NT	NT		NT
M/P-XYLENE		NT	ND (0.11)	NT	NT	NT	NT	NT		NT
O-XYLENE		NT	ND (0.053)	NT	NT	NT	NT	NT		NT
SM 2540G (% Wt)										
% Solids		90.3	NT	89.7	87.8	89.3	88.2	88.4		87.4
NOTES:										
ND = Not detected above the lab reporting limits shown in parenth										
NT = Not tested.										

Table 12.1
Summary of Soil Analytical Data: RGP-8

Parameter	SAMPLING LOCATION											
	RGP-8	RGP-8-SP1	RGP8-NSW1	RGP8-NSW2	RGP8-NSW3	RGP8-NSW4	RGP8-NSW5	RGP-8 BE	RGP-8-SP2	RGP-8 BN	RGP-8 BS	RGP-8 BW
Sampling Date	12/8/2015	12/11/2015	12/12/2015	12/12/2015	12/12/2015	12/12/2015	12/12/2015	12/23/2015	12/14/2015	12/23/2015	12/23/2015	12/23/2015
Sample Depth	Representative	Stockpile	North Sidewall 1	North Sidewall 2	North Sidewall 3	North Sidewall 4	North Sidewall 5	Bottom East	Stockpile	Bottom North	Bottom South	Bottom West
SM 2540G (% Wt)												
% Solids	80.7	75.0	83.9	76.7	88.2	89.7	87.6	24.7	82.8	85.7	26.6	26.3
MADEP-EPH-04-1.1 (mg/Kg dry)												
C9-C18 ALIPHATICS	450	NT	19	ND (13)	75	30	28	ND (40)	NT	19	ND (38)	ND (38)
C19-C36 ALIPHATICS	180	NT	41	52	60	170	270	72	NT	100	76	77
UNADJUSTED C11-C22 AROMATICS	440	NT	79	190	67	230	310	92	NT	110	260	110
C11-C22 AROMATICS	430	NT	71	130	61	210	300	92	NT	110	230	110
ACENAPHTHENE	0.34	NT	ND (0.24)	0.92	ND (0.23)	0.34	ND (0.23)	NT	NT	NT	NT	NT
ACENAPHTHYLENE	ND (0.24)	NT	ND (0.24)	ND (0.26)	ND (0.23)	ND (0.22)	ND (0.23)	NT	NT	NT	NT	NT
ANTHRACENE	0.30	NT	ND (0.24)	2.1	ND (0.23)	1.1	0.30	NT	NT	NT	NT	NT
BENZO(A)ANTHRACENE	1.1	NT	0.78	4.2	0.51	1.3	0.83	NT	NT	NT	NT	NT
BENZO(A)PYRENE	0.79	NT	0.95	3.7	0.59	1.2	0.93	NT	NT	NT	NT	NT
BENZO(B)FLUORANTHENE	1.2	NT	1.1	4.4	0.70	1.3	1.1	NT	NT	NT	NT	NT
BENZO(G,H,I)PERYLENE	0.53	NT	0.68	1.8	0.37	0.83	0.47	NT	NT	NT	NT	NT
BENZO(K)FLUORANTHENE	0.57	NT	0.43	1.6	0.25	0.50	0.59	NT	NT	NT	NT	NT
CHRYSENE	1.2	NT	0.77	4.7	0.59	1.5	1.2	NT	NT	NT	NT	NT
DIBENZ(A,H)ANTHRACENE	ND (0.24)	NT	ND (0.24)	0.60	ND (0.23)	ND (0.22)	ND (0.23)	NT	NT	NT	NT	NT
FLUORANTHENE	2.0	NT	0.96	9.0	0.98	2.5	2.0	NT	NT	NT	NT	NT
FLUORENE	ND (0.24)	NT	ND (0.24)	1.0	ND (0.23)	0.43	ND (0.23)	NT	NT	NT	NT	NT
INDENO(1,2,3-CD)PYRENE	0.48	NT	0.73	2.2	0.41	0.63	0.47	NT	NT	NT	NT	NT
2-METHYLNAPHTHALENE	1.3	NT	ND (0.24)	0.43	ND (0.23)	ND (0.22)	ND (0.23)	NT	NT	NT	NT	NT
NAPHTHALENE	ND (0.24)	NT	ND (0.24)	1.1	ND (0.23)	ND (0.22)	ND (0.23)	NT	NT	NT	NT	NT
PHENANTHRENE	0.97	NT	0.24	9.0	0.59	2.6	1.5	NT	NT	NT	NT	NT
PYRENE	2.3	NT	1.2	9.3	1.1	3.4	1.9	NT	NT	NT	NT	NT
MADEP-VPH-04-1.1 (mg/Kg dry)												
UNADJUSTED C5-C8 ALIPHATICS	ND (80)	ND (100)	ND (17)	ND (11)	ND (7.4)	ND (7.0)	ND (8.9)	ND (88)	ND (8.1)	ND (8.7)	ND (73)	ND (70)
C5-C8 ALIPHATICS	ND (80)	ND (100)	ND (17)	ND (11)	ND (7.4)	ND (7.0)	ND (8.9)	ND (88)	ND (8.1)	ND (8.7)	ND (73)	ND (70)
UNADJUSTED C9-C12 ALIPHATICS	360	560	110	ND (11)	40	ND (7.0)	ND (8.9)	ND (88)	64	ND (8.7)	ND (73)	ND (70)
C9-C12 ALIPHATICS	85	200	33	ND (11)	10	ND (7.0)	ND (8.9)	ND (88)	25	ND (8.7)	ND (73)	ND (70)
C9-C10 AROMATICS	280	360	73	ND (11)	29	ND (7.0)	ND (8.9)	ND (88)	40	ND (8.7)	ND (73)	ND (70)
BENZENE	ND (0.40)	ND (0.52)	ND (0.087)	ND (0.054)	ND (0.037)	ND (0.035)	ND (0.044)	ND (0.44)	ND (0.040)	ND (0.044)	ND (0.37)	ND (0.35)
ETHYLBENZENE	ND (0.40)	ND (0.52)	ND (0.087)	ND (0.054)	ND (0.037)	ND (0.035)	ND (0.044)	ND (0.44)	ND (0.040)	ND (0.044)	ND (0.37)	ND (0.35)
METHYL TERT-BUTYL ETHER (MTBE)	ND (0.40)	ND (0.52)	ND (0.087)	ND (0.054)	ND (0.037)	ND (0.035)	ND (0.044)	ND (0.44)	ND (0.040)	ND (0.044)	ND (0.37)	ND (0.35)
NAPHTHALENE	ND (2.0)	ND (2.6)	ND (0.43)	ND (0.27)	ND (0.18)	ND (0.18)	ND (0.22)	ND (2.2)	ND (0.20)	ND (0.22)	ND (1.8)	ND (1.8)
TOLUENE	ND (0.40)	ND (0.52)	ND (0.087)	ND (0.054)	ND (0.037)	ND (0.035)	ND (0.044)	ND (0.44)	ND (0.040)	ND (0.044)	ND (0.37)	ND (0.35)
M/P-XYLENE	ND (0.80)	ND (1.0)	ND (0.17)	ND (0.11)	ND (0.074)	ND (0.070)	ND (0.089)	ND (0.88)	ND (0.081)	ND (0.087)	ND (0.73)	ND (0.70)
O-XYLENE	ND (0.40)	ND (0.52)	ND (0.087)	ND (0.054)	ND (0.037)	ND (0.035)	ND (0.044)	ND (0.44)	ND (0.040)	ND (0.044)	ND (0.37)	ND (0.35)
SM21-22 2510B Modified (µmhos/cm)												
SPECIFIC CONDUCTANCE	NT	NT	NT	NT	NT	NT	NT	NT	5.5	NT	NT	NT
SW-846 1010A (°F)												
FLASHPOINT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SW-846 1030 (present/absent)												
IGNITABILITY	NT	Absent	NT	NT	NT	NT	NT	NT	Absent	NT	NT	NT
SW-846 6010C (mg/Kg dry) Metals Digestion												
ANTIMONY	ND (3.0)	ND (3.3)	NT	NT	NT	NT	NT	NT	ND (2.9)	NT	NT	NT
ARSENIC	ND (3.0)	ND (3.3)	NT	NT	NT	NT	NT	NT	ND (2.9)	NT	NT	NT
BARIUM	50	38	NT	NT	NT	NT	NT	NT	35	NT	NT	NT
BERYLLIUM	0.88	1.0	NT	NT	NT	NT	NT	NT	0.64	NT	NT	NT
CADMIUM	ND (0.30)	0.58	NT	NT	NT	NT	NT	NT	0.45	NT	NT	NT
CHROMIUM	8.5	11	NT	NT	NT	NT	NT	NT	6.6	NT	NT	NT
LEAD	17	60	NT	NT	NT	NT	NT	NT	42	NT	NT	NT
NICKEL	6.9	8.9	NT	NT	NT	NT	NT	NT	5.1	NT	NT	NT
SELENIUM	ND (6.0)	ND (6.6)	NT	NT	NT	NT	NT	NT	ND (5.8)	NT	NT	NT
SILVER	ND (0.60)	ND (0.66)	NT	NT	NT	NT	NT	NT	ND (0.58)	NT	NT	NT
THALLIUM	ND (3.0)	ND (3.3)	NT	NT	NT	NT	NT	NT	ND (2.9)	NT	NT	NT
VANADIUM	11	20	NT	NT	NT	NT	NT	NT	11	NT	NT	NT
ZINC	24	52	NT	NT	NT	NT	NT	NT	33	NT	NT	NT

Table 12.1
Summary of Soil Analytical Data: RGP-8

Parameter	SAMPLING LOCATION											
	RGP-8	RGP-8-SP1	RGP8-NSW1	RGP8-NSW2	RGP8-NSW3	RGP8-NSW4	RGP8-NSW5	RGP-8 BE	RGP-8-SP2	RGP-8 BN	RGP-8 BS	RGP-8 BW
Sampling Date	12/8/2015	12/11/2015	12/12/2015	12/12/2015	12/12/2015	12/12/2015	12/12/2015	12/23/2015	12/14/2015	12/23/2015	12/23/2015	12/23/2015
Sample Depth	Representative	Stockpile	North Sidewall 1	North Sidewall 2	North Sidewall 3	North Sidewall 4	North Sidewall 5	Bottom East	Stockpile	Bottom North	Bottom South	Bottom West
SW-846 6010C (mg/L) 1311 TCLP EXT												
LEAD	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SW-846 7471B (mg/Kg dry) Metals Digestion												
MERCURY	0.20	0.089	NT	NT	NT	NT	NT	NT	0.076	NT	NT	NT
SW-846 8082A (mg/Kg dry)												
PCB 1016	ND (0.12)	ND (0.13)	NT	NT	NT	NT	NT	NT	ND (0.12)	NT	NT	NT
PCB 1221	ND (0.12)	ND (0.13)	NT	NT	NT	NT	NT	NT	ND (0.12)	NT	NT	NT
PCB 1232	ND (0.12)	ND (0.13)	NT	NT	NT	NT	NT	NT	ND (0.12)	NT	NT	NT
PCB 1242	ND (0.12)	ND (0.13)	NT	NT	NT	NT	NT	NT	ND (0.12)	NT	NT	NT
PCB 1248	ND (0.12)	ND (0.13)	NT	NT	NT	NT	NT	NT	ND (0.12)	NT	NT	NT
PCB 1254	ND (0.12)	ND (0.13)	NT	NT	NT	NT	NT	NT	ND (0.12)	NT	NT	NT
PCB 1260	ND (0.12)	ND (0.13)	NT	NT	NT	NT	NT	NT	ND (0.12)	NT	NT	NT
PCB 1262	ND (0.12)	ND (0.13)	NT	NT	NT	NT	NT	NT	ND (0.12)	NT	NT	NT
PCB 1268	ND (0.12)	ND (0.13)	NT	NT	NT	NT	NT	NT	ND (0.12)	NT	NT	NT
SW-846 8100 Modified (mg/Kg dry)												
TPH	NT	500	NT	NT	NT	NT	NT	NT	210	NT	NT	NT
SW-846 8260C (mg/Kg dry)												
ACETONE	ND (5.0)	ND (0.11)	NT	NT	NT	NT	NT	NT	ND (0.062)	NT	NT	NT
TERT-AMYLMETHYL ETHER	ND (0.050)	ND (0.0011)	NT	NT	NT	NT	NT	NT	ND (0.00062)	NT	NT	NT
BENZENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
BROMOBENZENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
BROMOCHLOROMETHANE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
BROMODICHLOROMETHANE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
BROMOFORM	ND (0.10)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
BROMOMETHANE	ND (0.50)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
2-BUTANONE (MEK)	ND (2.0)	ND (0.046)	NT	NT	NT	NT	NT	NT	ND (0.025)	NT	NT	NT
N-BUTYLBENZENE	0.54	0.013	NT	NT	NT	NT	NT	NT	0.0036	NT	NT	NT
SEC-BUTYLBENZENE	0.43	0.013	NT	NT	NT	NT	NT	NT	0.0039	NT	NT	NT
TERT-BUTYLBENZENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
TERT-BUTYLETHYL ETHER	ND (0.050)	ND (0.0011)	NT	NT	NT	NT	NT	NT	ND (0.00062)	NT	NT	NT
CARBON DISULFIDE	ND (1.0)	ND (0.023)	NT	NT	NT	NT	NT	NT	ND (0.012)	NT	NT	NT
CARBON TETRACHLORIDE	ND (0.10)	ND (0.0046)	NT	NT	NT	NT	NT	NT	ND (0.0025)	NT	NT	NT
CHLOROBENZENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
CHLORODIBROMOMETHANE	ND (0.050)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
CHLOROETHANE	ND (0.20)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
CHLOROFORM	ND (0.20)	ND (0.0046)	NT	NT	NT	NT	NT	NT	ND (0.0025)	NT	NT	NT
CHLOROMETHANE	ND (0.50)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
2-CHLOROTOLUENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
4-CHLOROTOLUENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
1,2-DIBROMO-3-CHLOROPROPANE	ND (0.40)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
1,2-DIBROMOETHANE (EDB)	ND (0.050)	ND (0.0011)	NT	NT	NT	NT	NT	NT	ND (0.00062)	NT	NT	NT
DIBROMOMETHANE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
1,2-DICHLOROBENZENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
1,3-DICHLOROBENZENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
1,4-DICHLOROBENZENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
DICHLORODIFLUOROMETHANE	ND (0.20)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
1,1-DICHLOROETHANE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
1,2-DICHLOROETHANE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
1,1-DICHLOROETHYLENE	ND (0.10)	ND (0.0046)	NT	NT	NT	NT	NT	NT	ND (0.0025)	NT	NT	NT
CIS-1,2-DICHLOROETHYLENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
TRANS-1,2-DICHLOROETHYLENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
1,2-DICHLOROPROPANE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
1,3-DICHLOROPROPANE	ND (0.050)	ND (0.0011)	NT	NT	NT	NT	NT	NT	ND (0.00062)	NT	NT	NT
2,2-DICHLOROPROPANE	ND (0.10)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
1,1-DICHLOROPROPENE	ND (0.20)	ND (0.0046)	NT	NT	NT	NT	NT	NT	ND (0.0025)	NT	NT	NT
CIS-1,3-DICHLOROPROPENE	ND (0.050)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
TRANS-1,3-DICHLOROPROPENE	ND (0.050)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT

Table 12.1
Summary of Soil Analytical Data: RGP-8

Parameter	SAMPLING LOCATION											
	RGP-8	RGP-8-SP1	RGP8-NSW1	RGP8-NSW2	RGP8-NSW3	RGP8-NSW4	RGP8-NSW5	RGP-8 BE	RGP-8-SP2	RGP-8 BN	RGP-8 BS	RGP-8 BW
Sampling Date	12/8/2015	12/11/2015	12/12/2015	12/12/2015	12/12/2015	12/12/2015	12/12/2015	12/23/2015	12/14/2015	12/23/2015	12/23/2015	12/23/2015
Sample Depth	Representative	Stockpile	North Sidewall 1	North Sidewall 2	North Sidewall 3	North Sidewall 4	North Sidewall 5	Bottom East	Stockpile	Bottom North	Bottom South	Bottom West
DIETHYL ETHER	ND (0.20)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
DIISOPROPYL ETHER	ND (0.050)	ND (0.0011)	NT	NT	NT	NT	NT	NT	ND (0.00062)	NT	NT	NT
1,4-DIOXANE	ND (5.0)	ND (0.11)	NT	NT	NT	NT	NT	NT	ND (0.062)	NT	NT	NT
ETHYLBENZENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
HEXACHLOROBUTADIENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
2-HEXANONE	ND (1.0)	ND (0.023)	NT	NT	NT	NT	NT	NT	ND (0.012)	NT	NT	NT
ISOPROPYLBENZENE	0.12	0.0065	NT	NT	NT	NT	NT	NT	ND (0.0025)	NT	NT	NT
P-ISOPROPYLTOLUENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
METHYL TERT-BUTYL ETHER (MTBE)	ND (0.10)	ND (0.0046)	NT	NT	NT	NT	NT	NT	ND (0.0025)	NT	NT	NT
METHYLENE CHLORIDE	ND (0.50)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
4-METHYL-2-PENTANONE (MIBK)	ND (1.0)	ND (0.023)	NT	NT	NT	NT	NT	NT	ND (0.012)	NT	NT	NT
NAPHTHALENE	ND (0.20)	0.017	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
N-PROPYLBENZENE	0.26	0.011	NT	NT	NT	NT	NT	NT	0.0027	NT	NT	NT
STYRENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
1,1,1,2-TETRACHLOROETHANE	ND (0.10)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
1,1,2,2-TETRACHLOROETHANE	ND (0.050)	ND (0.0011)	NT	NT	NT	NT	NT	NT	ND (0.00062)	NT	NT	NT
TETRACHLOROETHYLENE	ND (0.10)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
TETRAHYDROFURAN	ND (0.40)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
TOLUENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
1,2,3-TRICHLOROBENZENE	ND (0.40)	ND (0.0046)	NT	NT	NT	NT	NT	NT	ND (0.0025)	NT	NT	NT
1,2,4-TRICHLOROBENZENE	ND (0.10)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
1,1,1-TRICHLOROETHANE	ND (0.10)	ND (0.0046)	NT	NT	NT	NT	NT	NT	ND (0.0025)	NT	NT	NT
1,1,2-TRICHLOROETHANE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
TRICHLOROETHYLENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
TRICHLOROFLUOROMETHANE	ND (0.20)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
1,2,3-TRICHLOROPROPANE	ND (0.20)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
1,2,4-TRIMETHYLBENZENE	ND (0.10)	0.0030	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
1,3,5-TRIMETHYLBENZENE	ND (0.10)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
VINYL CHLORIDE	ND (0.20)	ND (0.011)	NT	NT	NT	NT	NT	NT	ND (0.0062)	NT	NT	NT
M/P-XYLENE	ND (0.20)	ND (0.0046)	NT	NT	NT	NT	NT	NT	ND (0.0025)	NT	NT	NT
O-XYLENE	ND (0.10)	ND (0.0023)	NT	NT	NT	NT	NT	NT	ND (0.0012)	NT	NT	NT
SW-846 8270D (mg/Kg dry)												
ACENAPHTHENE	ND (0.21)	ND (0.22)	ND (0.20)	1.7	ND (0.19)	ND (0.19)	0.59	ND (0.69)	ND (0.20)	ND (0.40)	ND (1.3)	ND (0.65)
ACENAPHTHYLENE	ND (0.21)	ND (0.22)	0.26	0.40	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.69)	ND (0.20)	ND (0.40)	ND (1.3)	ND (0.65)
ACETOPHENONE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
ANILINE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
ANTHRACENE	ND (0.21)	ND (0.22)	0.26	3.8	0.34	0.31	1.5	ND (0.69)	ND (0.20)	1.1	ND (1.3)	ND (0.65)
BENZO(A)ANTHRACENE	0.62	0.48	1.8	7.8	0.81	0.70	3.6	ND (0.69)	0.27	2.8	ND (1.3)	ND (0.65)
BENZO(A)PYRENE	0.66	0.48	1.9	6.8	0.77	0.65	3.1	ND (0.69)	0.28	2.2	ND (1.3)	ND (0.65)
BENZO(B)FLUORANTHENE	0.73	0.53	2.2	7.7	0.85	0.66	3.6	ND (0.69)	0.31	2.6	ND (1.3)	ND (0.65)
BENZO(G,H,I)PERYLENE	0.43	0.29	1.3	3.5	0.54	0.51	2.2	ND (0.69)	ND (0.20)	0.86	ND (1.3)	ND (0.65)
BENZO(K)FLUORANTHENE	0.28	ND (0.22)	0.83	3.4	0.36	0.28	1.4	ND (0.69)	ND (0.20)	1.1	ND (1.3)	ND (0.65)
BIS(2-CHLOROETHOXY)METHANE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
BIS(2-CHLOROETHYL)ETHER	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
BIS(2-CHLOROISOPROPYL)ETHER	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
BIS(2-ETHYLHEXYL)PHTHALATE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
4-BROMOPHENYL PHENYL ETHER	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
BUTYLBENZYLPHTHALATE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
4-CHLOROANILINE	ND (0.82)	ND (0.87)	NT	NT	NT	NT	NT	NT	ND (0.79)	NT	NT	NT
2-CHLORONAPHTHALENE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
2-CHLOROPHENOL	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
CHRYSENE	0.60	0.48	1.6	7.4	0.77	0.76	3.4	ND (0.69)	0.28	2.8	ND (1.3)	ND (0.65)
DIBENZ(A,H)ANTHRACENE	ND (0.21)	ND (0.22)	0.26	0.99	ND (0.19)	ND (0.19)	0.57	ND (0.69)	ND (0.20)	ND (0.40)	ND (1.3) *	ND (0.65)
DIBENZOFURAN	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
DI-N-BUTYLPHTHALATE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
1,2-DICHLOROBENZENE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
1,3-DICHLOROBENZENE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT

Table 12.1
Summary of Soil Analytical Data: RGP-8

Parameter	SAMPLING LOCATION											
	RGP-8	RGP-8-SP1	RGP8-NSW1	RGP8-NSW2	RGP8-NSW3	RGP8-NSW4	RGP8-NSW5	RGP-8 BE	RGP-8-SP2	RGP-8 BN	RGP-8 BS	RGP-8 BW
Sampling Date	12/8/2015	12/11/2015	12/12/2015	12/12/2015	12/12/2015	12/12/2015	12/12/2015	12/23/2015	12/14/2015	12/23/2015	12/23/2015	12/23/2015
Sample Depth	Representative	Stockpile	North Sidewall 1	North Sidewall 2	North Sidewall 3	North Sidewall 4	North Sidewall 5	Bottom East	Stockpile	Bottom North	Bottom South	Bottom West
1,4-DICHLOROBENZENE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
3,3'-DICHLOROBENZIDINE	ND (0.21)	ND (0.22)	NT	NT	NT	NT	NT	NT	ND (0.20)	NT	NT	NT
2,4-DICHLOROPHENOL	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
DIETHYLPHTHALATE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
2,4-DIMETHYLPHENOL	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
DIMETHYLPHTHALATE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
2,4-DINITROPHENOL	ND (0.82)	ND (0.87)	NT	NT	NT	NT	NT	NT	ND (0.79)	NT	NT	NT
2,4-DINITROTOLUENE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
2,6-DINITROTOLUENE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
DI-N-OCTYLPHTHALATE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
FLUORANTHENE	1.0	0.88	2.6	16	1.6	1.2	7.9	ND (0.69)	0.54	5.7	ND (1.3)	ND (0.65)
FLUORENE	ND (0.21)	ND (0.22)	ND (0.20)	2.0	ND (0.19)	ND (0.19)	0.71	ND (0.69)	ND (0.20)	ND (0.40)	ND (1.3)	ND (0.65)
HEXACHLOROBENZENE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
HEXACHLOROBUTADIENE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
HEXACHLOROETHANE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
INDENO(1,2,3-CD)PYRENE	0.44	0.31	1.4	3.7	0.58	0.45	2.2	ND (0.69)	ND (0.20)	0.92	ND (1.3)	ND (0.65)
ISOPHORONE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
2-METHYLNAPHTHALENE	2.2	0.78	ND (0.20)	0.71	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.69)	0.35	ND (0.40)	ND (1.3) *	ND (0.65)
O-CRESOL	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
M/P-CRESOL	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
NAPHTHALENE	0.39	ND (0.22)	ND (0.20)	1.0	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.69)	ND (0.20)	ND (0.40)	ND (1.3)	ND (0.65)
NITROBENZENE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
2-NITROPHENOL	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
4-NITROPHENOL	ND (0.82)	ND (0.87)	NT	NT	NT	NT	NT	NT	ND (0.79)	NT	NT	NT
PENTACHLOROPHENOL	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
PHENANTHRENE	0.66	0.61	0.73	16	1.4	0.89	6.6	ND (0.69)	0.42	3.6	ND (1.3)	ND (0.65)
PHENOL	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
PYRENE	1.2	1.3	3.1	17	1.8	1.7	9.2	ND (0.69)	0.66	5.6	ND (1.3)	ND (0.65)
1,2,4-TRICHLOROBENZENE	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
2,4,5-TRICHLOROPHENOL	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
2,4,6-TRICHLOROPHENOL	ND (0.42)	ND (0.45)	NT	NT	NT	NT	NT	NT	ND (0.41)	NT	NT	NT
SW-846 9014 (mg/Kg)												
REACTIVE CYANIDE	NT	ND (3.9)	NT	NT	NT	NT	NT	NT	ND (4.0)	NT	NT	NT
SW-846 9030A (mg/Kg)												
REACTIVE SULFIDE	NT	ND (19)	NT	NT	NT	NT	NT	NT	ND (20)	NT	NT	NT
SW-846 9045C (pH Units)												
PH	NT	6.5	NT	NT	NT	NT	NT	NT	6.6	NT	NT	NT

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.

Table 12.1
Summary of Soil Analytical Data: RGP-8

Parameter		SAMPLING LOCATION								
	RGP-8 SSW1	RGP-8 SSW2	RGP-8 SSW3	RGP-8 SSW4	RGP-8 SSW5	RGP-8-B1	RGP-8-N1	RGP-8-S1	RGP-8-W1	RGP-8-SP3
Sampling Date	12/23/2015	12/23/2015	12/23/2015	12/23/2015	12/23/2015	12/28/2015	12/28/2015	12/28/2015	12/28/2015	1/4/2016
Sample Depth	South Sidewall 1	South Sidewall 2	South Sidewall 3	Sout Sidewall 4	South Sidewall 5	Bottom	North Sidewall	South Sidewall	West Sidewall	Stockpile
SM 2540G (% Wt)										
% Solids	85.9	88.0	77.1	85.4	84.4	87.1	91.3	85.9	86.1	77.0
MADEP-EPH-04-1.1 (mg/Kg dry)										
C9-C18 ALIPHATICS	15	16	31	ND (12)	14	23	24	64	55	NT
C19-C36 ALIPHATICS	35	69	53	65	43	71	110	33	41	NT
UNADJUSTED C11-C22 AROMATICS	28	160	150	130	110	90	140	120	97	NT
C11-C22 AROMATICS	28	140	130	110	98	82	120	98	79	NT
ACENAPHTHENE	NT	NT	NT	NT	NT	ND (0.11)	0.27	0.32	0.30	NT
ACENAPHTHYLENE	NT	NT	NT	NT	NT	ND (0.11)	ND (0.22)	ND (0.12)	ND (0.12)	NT
ANTHRACENE	NT	NT	NT	NT	NT	0.25	0.45	0.86	0.62	NT
BENZO(A)ANTHRACENE	NT	NT	NT	NT	NT	0.58	1.4	1.7	1.3	NT
BENZO(A)PYRENE	NT	NT	NT	NT	NT	0.59	1.4	1.5	1.3	NT
BENZO(B)FLUORANTHENE	NT	NT	NT	NT	NT	0.72	1.7	1.8	1.5	NT
BENZO(G,H,I)PERYLENE	NT	NT	NT	NT	NT	0.35	0.95	0.80	0.75	NT
BENZO(K)FLUORANTHENE	NT	NT	NT	NT	NT	0.31	0.65	0.66	0.57	NT
CHRYSENE	NT	NT	NT	NT	NT	0.65	1.5	1.8	1.4	NT
DIBENZ(A,H)ANTHRACENE	NT	NT	NT	NT	NT	ND (0.11)	0.22	0.24	0.22	NT
FLUORANTHENE	NT	NT	NT	NT	NT	1.3	2.6	3.5	2.9	NT
FLUORENE	NT	NT	NT	NT	NT	0.11	ND (0.22)	0.42	0.31	NT
INDENO(1,2,3-CD)PYRENE	NT	NT	NT	NT	NT	0.36	0.86	0.91	0.77	NT
2-METHYLNAPHTHALENE	NT	NT	NT	NT	NT	ND (0.11)	ND (0.22)	ND (0.12)	0.18	NT
NAPHTHALENE	NT	NT	NT	NT	NT	ND (0.11)	0.24	0.30	0.19	NT
PHENANTHRENE	NT	NT	NT	NT	NT	0.89	1.9	3.0	2.4	NT
PYRENE	NT	NT	NT	NT	NT	1.3	2.8	4.1	2.9	NT
MADEP-VPH-04-1.1 (mg/Kg dry)										
UNADJUSTED C5-C8 ALIPHATICS	ND (7.1)	ND (8.4)	ND (9.5)	ND (7.8)	ND (9.8)	ND (7.5)	ND (7.7)	ND (7.5)	ND (11)	NT
C5-C8 ALIPHATICS	ND (7.1)	ND (8.4)	ND (9.5)	ND (7.8)	ND (9.8)	ND (7.5)	ND (7.7)	ND (7.5)	ND (11)	NT
UNADJUSTED C9-C12 ALIPHATICS	ND (7.1)	ND (8.4)	ND (9.5)	ND (7.8)	ND (9.8)	ND (7.5)	ND (7.7)	9.1	13	NT
C9-C12 ALIPHATICS	ND (7.1)	ND (8.4)	ND (9.5)	ND (7.8)	ND (9.8)	ND (7.5)	ND (7.7)	ND (7.5)	ND (11)	NT
C9-C10 AROMATICS	ND (7.1)	ND (8.4)	ND (9.5)	ND (7.8)	ND (9.8)	ND (7.5)	ND (7.7)	8.3	12	NT
BENZENE	ND (0.036)	ND (0.042)	ND (0.048)	ND (0.039)	0.19	ND (0.037)	ND (0.039)	ND (0.038)	ND (0.055)	NT
ETHYLBENZENE	ND (0.036)	ND (0.042)	ND (0.048)	ND (0.039)	ND (0.049)	ND (0.037)	ND (0.039)	ND (0.038)	ND (0.055)	NT
METHYL TERT-BUTYL ETHER (MTBE)	ND (0.036)	ND (0.042)	ND (0.048)	ND (0.039)	ND (0.049)	ND (0.037)	ND (0.039)	ND (0.038)	ND (0.055)	NT
NAPHTHALENE	ND (0.18)	ND (0.21)	ND (0.24)	ND (0.20)	ND (0.24)	ND (0.19)	ND (0.19)	ND (0.19)	ND (0.27)	NT
TOLUENE	ND (0.036)	ND (0.042)	ND (0.048)	ND (0.039)	0.12	ND (0.037)	ND (0.039)	ND (0.038)	ND (0.055)	NT
M/P-XYLENE	ND (0.071)	ND (0.084)	ND (0.095)	ND (0.078)	ND (0.098)	ND (0.075)	ND (0.077)	ND (0.075)	ND (0.11)	NT
O-XYLENE	ND (0.036)	ND (0.042)	ND (0.048)	ND (0.039)	ND (0.049)	ND (0.037)	ND (0.039)	ND (0.038)	ND (0.055)	NT
SM21-22 2510B Modified (µmhos/cm)										
SPECIFIC CONDUCTANCE	NT	NT	NT	NT	NT	NT	NT	NT	NT	15
SW-846 1010A (°F)										
FLASHPOINT	NT	NT	NT	NT	NT	NT	NT	NT	NT	> 212 °F
SW-846 1030 (present/absent)										
IGNITABILITY	NT	NT	NT	NT	NT	NT	NT	NT	NT	Absent
SW-846 6010C (mg/Kg dry) Metals Digestion										
ANTIMONY	NT	NT	NT	NT	NT	NT	NT	NT	NT	3.7
ARSENIC	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (3.2)
BARIUM	NT	NT	NT	NT	NT	NT	NT	NT	NT	670
BERYLLIUM	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.32)
CADMIUM	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.57
CHROMIUM	NT	NT	NT	NT	NT	NT	NT	NT	NT	17
LEAD	NT	NT	NT	NT	NT	NT	NT	NT	NT	200
NICKEL	NT	NT	NT	NT	NT	NT	NT	NT	NT	11
SELENIUM	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (6.3)
SILVER	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.63)
THALLIUM	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (3.2)
VANADIUM	NT	NT	NT	NT	NT	NT	NT	NT	NT	24
ZINC	NT	NT	NT	NT	NT	NT	NT	NT	NT	97

Table 12.1
Summary of Soil Analytical Data: RGP-8

Parameter		SAMPLING LOCATION									
	RGP-8 SSW1	RGP-8 SSW2	RGP-8 SSW3	RGP-8 SSW4	RGP-8 SSW5	RGP-8-B1	RGP-8-N1	RGP-8-S1	RGP-8-W1	RGP-8-SP3
Sampling Date	12/23/2015	12/23/2015	12/23/2015	12/23/2015	12/23/2015	12/28/2015	12/28/2015	12/28/2015	12/28/2015	1/4/2016
Sample Depth	South Sidewall 1	South Sidewall 2	South Sidewall 3	Sout Sidewall 4	South Sidewall 5	Bottom	North Sidewall	South Sidewall	West Sidewall	Stockpile
SW-846 6010C (mg/L) 1311 TCLP EXT										
LEAD	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.21
SW-846 7471B (mg/Kg dry) Metals Digestion										
MERCURY	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.23
SW-846 8082A (mg/Kg dry)										
PCB 1016	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.13)
PCB 1221	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.13)
PCB 1232	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.13)
PCB 1242	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.13)
PCB 1248	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.13)
PCB 1254	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.13)
PCB 1260	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.13)
PCB 1262	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.13)
PCB 1268	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.13)
SW-846 8100 Modified (mg/Kg dry)										
TPH	NT	NT	NT	NT	NT	NT	NT	NT	NT	400
SW-846 8260C (mg/Kg dry)										
ACETONE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.085)
TERT-AMYLMETHYL ETHER	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.00085)
BENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
BROMOBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
BROMOCHLOROMETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
BROMODICHLOROMETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
BROMOFORM	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.017)
BROMOMETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
2-BUTANONE (MEK)	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.034)
N-BUTYLBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
SEC-BUTYLBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
TERT-BUTYLBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
TERT-BUTYLETHYL ETHER	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.00085)
CARBON DISULFIDE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.085)
CARBON TETRACHLORIDE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
CHLOROBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
CHLORODIBROMOMETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
CHLOROETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
CHLOROFORM	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0034)
CHLOROMETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
2-CHLOROTOLUENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
4-CHLOROTOLUENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
1,2-DIBROMO-3-CHLOROPROPANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
1,2-DIBROMOETHANE (EDB)	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.00085)
DIBROMOMETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
1,2-DICHLOROBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
1,3-DICHLOROBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
1,4-DICHLOROBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
DICHLORODIFLUOROMETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
1,1-DICHLOROETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
1,2-DICHLOROETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
1,1-DICHLOROETHYLENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0034)
CIS-1,2-DICHLOROETHYLENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
TRANS-1,2-DICHLOROETHYLENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
1,2-DICHLOROPROPANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
1,3-DICHLOROPROPANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.00085)
2,2-DICHLOROPROPANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0034)
1,1-DICHLOROPROPENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
CIS-1,3-DICHLOROPROPENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0034)
TRANS-1,3-DICHLOROPROPENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)

Table 12.1
Summary of Soil Analytical Data: RGP-8

Parameter		SAMPLING LOCATION								
	RGP-8 SSW1	RGP-8 SSW2	RGP-8 SSW3	RGP-8 SSW4	RGP-8 SSW5	RGP-8-B1	RGP-8-N1	RGP-8-S1	RGP-8-W1	RGP-8-SP3
Sampling Date	12/23/2015	12/23/2015	12/23/2015	12/23/2015	12/23/2015	12/28/2015	12/28/2015	12/28/2015	12/28/2015	1/4/2016
Sample Depth	South Sidewall 1	South Sidewall 2	South Sidewall 3	Sout Sidewall 4	South Sidewall 5	Bottom	North Sidewall	South Sidewall	West Sidewall	Stockpile
DIETHYL ETHER	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
DIISOPROPYL ETHER	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.00085)
1,4-DIOXANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.085)
ETHYLBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
HEXACHLOROBUTADIENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
2-HEXANONE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.017)
ISOPROPYLBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
P-ISOPROPYLTOLUENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
METHYL TERT-BUTYL ETHER (MTBE)	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0034)
METHYLENE CHLORIDE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
4-METHYL-2-PENTANONE (MIBK)	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.017)
NAPHTHALENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0034)
N-PROPYLBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
STYRENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
1,1,1,2-TETRACHLOROETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.017)
1,1,2,2-TETRACHLOROETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
TETRACHLOROETHYLENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
TETRAHYDROFURAN	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
TOLUENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
1,2,3-TRICHLOROBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
1,2,4-TRICHLOROBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
1,1,1-TRICHLOROETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.017)
1,1,2-TRICHLOROETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
TRICHLOROETHYLENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
TRICHLOROFLUOROMETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
1,2,3-TRICHLOROPROPANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
1,2,4-TRIMETHYLBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
1,3,5-TRIMETHYLBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
VINYL CHLORIDE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0085)
M/P-XYLENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0034)
O-XYLENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.0017)
SW-846 8270D (mg/Kg dry)										
ACENAPHTHENE	ND (0.20)	ND (0.19)	ND (0.22)	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.18)	ND (0.20)	0.28	ND (0.22)
ACENAPHTHYLENE	ND (0.20)	ND (0.19)	ND (0.22)	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.18)	0.23	ND (0.20)	ND (0.22)
ACETOPHENONE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
ANILINE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
ANTHRACENE	0.28	0.25	ND (0.22)	0.20	ND (0.20)	0.31	0.41	0.45	0.74	ND (0.22)
BENZO(A)ANTHRACENE	0.78	1.2	0.26	0.77	0.21	1.0	1.6	1.1	2.1	0.60
BENZO(A)PYRENE	0.72	1.1	0.25	0.80	0.23	0.89	1.5	1.0	1.8	0.56
BENZO(B)FLUORANTHENE	0.77	1.2	0.30	0.87	0.25	1.2	1.7	1.2	2.3	0.62
BENZO(G,H,I)PERYLENE	0.37	0.53	ND (0.22)	0.37	ND (0.20)	0.40	0.99	0.55	0.85	0.29
BENZO(K)FLUORANTHENE	0.27	0.47	ND (0.22)	0.30	ND (0.20)	0.49	0.69	0.51	0.80	0.26
BIS(2-CHLOROETHOXY)METHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
BIS(2-CHLOROETHYL)ETHER	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
BIS(2-CHLOROISOPROPYL)ETHER	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
BIS(2-ETHYLHEXYL)PHTHALATE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
4-BROMOPHENYL PHENYL ETHER	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
BUTYLBENZYLPHTHALATE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
4-CHLOROANILINE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.86)
2-CHLORONAPHTHALENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
2-CHLOROPHENOL	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
CHRYSENE	0.74	1.2	0.26	0.72	0.21	1.1	1.5	1.0	1.9	0.56
DIBENZ(A,H)ANTHRACENE	ND (0.20)	ND (0.19)	ND (0.22)	ND (0.20)	ND (0.20)	ND (0.19)	0.25	ND (0.20)	0.25	ND (0.22)
DIBENZOFURAN	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
DI-N-BUTYLPHTHALATE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
1,2-DICHLOROBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
1,3-DICHLOROBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)

Table 12.1
Summary of Soil Analytical Data: RGP-8

Parameter		SAMPLING LOCATION								
	RGP-8 SSW1	RGP-8 SSW2	RGP-8 SSW3	RGP-8 SSW4	RGP-8 SSW5	RGP-8-B1	RGP-8-N1	RGP-8-S1	RGP-8-W1	RGP-8-SP3
Sampling Date	12/23/2015	12/23/2015	12/23/2015	12/23/2015	12/23/2015	12/28/2015	12/28/2015	12/28/2015	12/28/2015	1/4/2016
Sample Depth	South Sidewall 1	South Sidewall 2	South Sidewall 3	Sout Sidewall 4	South Sidewall 5	Bottom	North Sidewall	South Sidewall	West Sidewall	Stockpile
1,4-DICHLOROBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
3,3'-DICHLOROBENZIDINE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.22)
2,4-DICHLOROPHENOL	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
DIETHYLPHTHALATE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
2,4-DIMETHYLPHENOL	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
DIMETHYLPHTHALATE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
2,4-DINITROPHENOL	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.86)
2,4-DINITROTOLUENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
2,6-DINITROTOLUENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
DI-N-OCTYLPHTHALATE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
FLUORANTHENE	1.5	1.9	0.52	1.3	0.29	2.0	2.8	2.3	3.2	1.3
FLUORENE	ND (0.20)	ND (0.19)	ND (0.22)	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.18)	0.39	0.32	ND (0.22)
HEXACHLOROBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
HEXACHLOROBUTADIENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
HEXACHLOROETHANE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
INDENO(1,2,3-CD)PYRENE	0.47	0.63	0.27	0.50	ND (0.20)	0.46	0.91	0.58	0.89	0.30
ISOPHORONE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
2-METHYLNAPHTHALENE	ND (0.20)	ND (0.19)	ND (0.22)	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.18)	ND (0.20)	ND (0.20)	ND (0.22)
O-CRESOL	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
M/P-CRESOL	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
NAPHTHALENE	ND (0.20)	ND (0.19)	ND (0.22)	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.18)	0.26	ND (0.20)	ND (0.22)
NITROBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
2-NITROPHENOL	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
4-NITROPHENOL	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.86)
PENTACHLOROPHENOL	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
PHENANTHRENE	0.98	0.79	0.38	0.70	ND (0.20)	1.4	1.8	1.9	3.3	0.87
PHENOL	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
PYRENE	1.7	2.4	0.56	1.5	0.34	2.1	3.3	2.3	4.3	1.2
1,2,4-TRICHLOROBENZENE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
2,4,5-TRICHLOROPHENOL	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
2,4,6-TRICHLOROPHENOL	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.44)
SW-846 9014 (mg/Kg)										
REACTIVE CYANIDE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (3.9)
SW-846 9030A (mg/Kg)										
REACTIVE SULFIDE	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (20)
SW-846 9045C (pH Units)										
PH	NT	NT	NT	NT	NT	NT	NT	NT	NT	6.8
NOTES:										
1. ND = Not detected above the lab reporting limits										
2. NT = Not tested.										

Table 12.2
Derivation of Exposure Point Concentrations for Soil: RGP-8

Parameter	SAMPLING LOCATION									
	RGP8-NSW1	RGP8-NSW1	RGP8-NSW2	RGP8-NSW2	RGP8-NSW3	RGP8-NSW3	RGP8-NSW4	RGP8-NSW4	RGP8-NSW5	RGP8-NSW5
Sampling Date	12/12/2015	12/12/2015	12/12/2015	12/12/2015	12/12/2015	12/12/2015	12/12/2015	12/12/2015	12/12/2015	12/12/2015
Sample Depth	North Sidewall 1	North Sidewall 1	North Sidewall 2	North Sidewall 2	North Sidewall 3	North Sidewall 3	North Sidewall 4	North Sidewall 4	North Sidewall 5	North Sidewall 5
C9-C18 ALIPHATICS	19		6.5		75		30		28	
C19-C36 ALIPHATICS	41		52		60		170		270	
C11-C22 AROMATICS	71		130		61		210		300	
ACENAPHTHENE	0.12	0.1	0.92	1.7	0.115	0.095	0.34	0.095	0.115	0.59
ACENAPHTHYLENE	0.12	0.26	0.13	0.4	0.115	0.095	0.11	0.095	0.115	0.095
ANTHRACENE	0.12	0.26	2.1	3.8	0.115	0.34	1.1	0.31	0.3	1.5
BENZO(A)ANTHRACENE	0.78	1.8	4.2	7.8	0.51	0.81	1.3	0.7	0.83	3.6
BENZO(A)PYRENE	0.95	1.9	3.7	6.8	0.59	0.77	1.2	0.65	0.93	3.1
BENZO(B)FLUORANTHENE	1.1	2.2	4.4	7.7	0.7	0.85	1.3	0.66	1.1	3.6
BENZO(G,H,I)PERYLENE	0.68	1.3	1.8	3.5	0.37	0.54	0.83	0.51	0.47	2.2
BENZO(K)FLUORANTHENE	0.43	0.83	1.6	3.4	0.25	0.36	0.5	0.28	0.59	1.4
CHRYSENE	0.77	1.6	4.7	7.4	0.59	0.77	1.5	0.76	1.2	3.4
DIBENZ(A,H)ANTHRACENE	0.12	0.26	0.6	0.99	0.115	0.095	0.11	0.095	0.115	0.57
FLUORANTHENE	0.96	2.6	9	16	0.98	1.6	2.5	1.2	2	7.9
FLUORENE	0.12	0.1	1	2	0.115	0.095	0.43	0.095	0.115	0.71
INDENO(1,2,3-CD)PYRENE	0.73	1.4	2.2	3.7	0.41	0.58	0.63	0.45	0.47	2.2
2-METHYLNAPHTHALENE	0.12	0.1	0.43	0.71	0.115	0.095	0.11	0.095	0.115	0.095
NAPHTHALENE	0.12	0.1	1.1	1	0.115	0.095	0.11	0.095	0.115	0.095
PHENANTHRENE	0.24	0.73	9	16	0.59	1.4	2.6	0.89	1.5	6.6
PYRENE	1.2	3.1	9.3	17	1.1	1.8	3.4	1.7	1.9	9.2
C5-C8 ALIPHATICS	8.5		5.5		3.7		3.5		4.45	
C9-C12 ALIPHATICS	33		5.5		10		3.5		4.45	
C9-C10 AROMATICS	73		5.5		29		3.5		4.45	
BENZENE	0.0435		0.027		0.0185		0.0175		0.022	
ETHYLBENZENE	ND (0.087)		ND (0.054)		ND (0.037)		ND (0.035)		ND (0.044)	
METHYL TERT-BUTYL ETHER (MTBE)	ND (0.087)		ND (0.054)		ND (0.037)		ND (0.035)		ND (0.044)	
NAPHTHALENE	ND (0.43)		ND (0.27)		ND (0.18)		ND (0.18)		ND (0.22)	
TOLUENE	0.0435		0.027		0.0185		0.0175		0.022	
M/P-XYLENE	ND (0.17)		ND (0.11)		ND (0.074)		ND (0.070)		ND (0.089)	
O-XYLENE	ND (0.087)		ND (0.054)		ND (0.037)		ND (0.035)		ND (0.044)	

NOTES:
1. When none detected, one-half detection limit was used as surrogate value for calculating exposure point concentration.
2. Exposure point concentration is the mean concentration for all confirmatory soil samples.

Table 12.2
Derivation of Exposure Point Concentrations for Soil: RGP-8

Parameter	SAMPLING LOCATION								
	RGP-8 BE	RGP-8 BN	RGP-8 BS	RGP-8 BW	RGP-8 SSW1	RGP-8 SSW2	RGP-8 SSW3	RGP-8 SSW4	RGP-8 SSW5
Sampling Date	12/23/2015	12/23/2015	12/23/2015	12/23/2015	12/23/2015	12/23/2015	12/23/2015	12/23/2015	12/23/2015
Sample Depth	Bottom East	Bottom North	Bottom South	Bottom West	South Sidewall 1	South Sidewall 2	South Sidewall 3	South Sidewall 4	South Sidewall 5
C9-C18 ALIPHATICS	20	19	19	19	15	16	31	6	14
C19-C36 ALIPHATICS	72	100	76	77	35	69	53	65	43
C11-C22 AROMATICS	92	110	230	110	28	140	130	110	98
ACENAPHTHENE	0.345	0.20	0.167	0.325	0.10	0.095	0.11	0.10	0.10
ACENAPHTHYLENE	0.345	0.20	0.167	0.325	0.10	0.095	0.11	0.10	0.10
ANTHRACENE	0.345	1.1	0.167	0.325	0.28	0.25	0.11	0.29	0.10
BENZO(A)ANTHRACENE	0.345	2.8	0.167	0.325	0.78	1.2	0.26	0.77	0.21
BENZO(A)PYRENE	0.345	2.2	0.167	0.325	0.72	1.1	0.25	0.80	0.23
BENZO(B)FLUORANTHENE	0.345	2.6	0.167	0.325	0.77	1.2	0.3	0.87	0.25
BENZO(G,H,I)PERYLENE	0.345	0.86	0.167	0.325	0.37	0.53	0.11	0.37	0.10
BENZO(K)FLUORANTHENE	0.345	1.1	0.167	0.325	0.27	0.47	0.11	0.30	0.10
CHRYSENE	0.345	2.8	0.167	0.325	0.74	1.2	0.26	0.72	0.21
DIBENZ(A,H)ANTHRACENE	0.345	0.20	0.167	0.325	0.10	0.095	0.11	0.10	0.10
FLUORANTHENE	0.345	5.7	0.167	0.325	1.5	1.9	0.52	1.3	0.29
FLUORENE	0.345	0.20	0.167	0.325	0.10	0.095	0.11	0.10	0.10
INDENO(1,2,3-CD)PYRENE	0.345	0.92	0.167	0.325	0.47	0.63	0.27	0.5	0.10
2-METHYLNAPHTHALENE	0.345	0.20	0.167	0.325	0.10	0.095	0.11	0.10	0.10
NAPHTHALENE	0.345	0.20	0.167	0.325	0.10	0.095	0.11	0.10	0.10
PHENANTHRENE	0.345	3.6	0.167	0.325	0.98	0.79	0.38	0.7	0.10
PYRENE	0.345	5.6	0.167	0.325	1.7	2.4	0.56	1.5	0.34
C5-C8 ALIPHATICS	44	4.35	36.5	35	3.55	4.2	4.75	3.9	4.9
C9-C12 ALIPHATICS	44	4.35	36.5	35	3.55	4.2	4.75	3.9	4.9
C9-C10 AROMATICS	44	4.35	36.5	35	3.55	4.2	4.75	3.9	4.9
BENZENE	0.22	0.022	0.185	0.175	0.018	0.021	0.024	0.0195	0.19
ETHYLBENZENE	ND (0.44)	ND (0.044)	ND (0.37)	ND (0.35)	ND (0.036)	ND (0.042)	ND (0.048)	ND (0.039)	ND (0.049)
METHYL TERT-BUTYL ETHER (MTBE)	ND (0.44)	ND (0.044)	ND (0.37)	ND (0.35)	ND (0.036)	ND (0.042)	ND (0.048)	ND (0.039)	ND (0.049)
NAPHTHALENE	ND (2.2)	ND (0.22)	ND (1.8)	ND (1.8)	ND (0.18)	ND (0.21)	ND (0.24)	ND (0.20)	ND (0.24)
TOLUENE	0.22	0.022	0.185	0.175	0.018	0.021	0.024	0.0195	0.12
M/P-XYLENE	ND (0.88)	ND (0.087)	ND (0.73)	ND (0.70)	ND (0.071)	ND (0.084)	ND (0.095)	ND (0.078)	ND (0.098)
O-XYLENE	ND (0.44)	ND (0.044)	ND (0.37)	ND (0.35)	ND (0.036)	ND (0.042)	ND (0.048)	ND (0.039)	ND (0.049)

Table 12.2
Derivation of Exposure Point Concentrations for Soil: RGP-8

Parameter	SAMPLING LOCATION								Number Analyzed	Maximum Concentration (mg/kg)	Mean Concentration (mg/kg)
	RGP-8-B1	RGP-8-B1	RGP-8-N1	RGP-8-N1	RGP-8-S1	RGP-8-S1	RGP-8-W1	RGP-8-W1			
Sampling Date	12/28/2015	12/28/2015	12/28/2015	12/28/2015	12/28/2015	12/28/2015	12/28/2015	12/28/2015			
Sample Depth	Bottom	Bottom	North Sidewall 1	North Sidewall 1	South Sidewall 1	South Sidewall 1	West Sidewall 1	West Sidewall 2			
C9-C18 ALIPHATICS	23		24		64		55		18	75	27
C19-C36 ALIPHATICS	71		110		33		41		18	270	80
C11-C22 AROMATICS	82		120		98		79		18	300	122
ACENAPHTHENE	0.055	0.095	0.27	0.09	0.32	0.1	0.3	0.28	27	1.7	0.27
ACENAPHTHYLENE	0.055	0.095	0.11	0.09	0.06	0.23	0.06	0.1	27	0.4	0.14
ANTHRACENE	0.25	0.31	0.45	0.41	0.86	0.45	0.62	0.74	27	3.8	0.63
BENZO(A)ANTHRACENE	0.58	1	1.4	1.6	1.7	1.1	1.3	2.1	27	7.8	1.5
BENZO(A)PYRENE	0.59	0.89	1.4	1.5	1.5	1.0	1.3	1.8	27	6.8	1.4
BENZO(B)FLUORANTHENE	0.72	1.2	1.7	1.7	1.8	1.2	1.5	2.3	27	7.7	1.6
BENZO(G,H,I)PERYLENE	0.35	0.4	0.95	0.99	0.8	0.55	0.75	0.85	27	3.5	0.78
BENZO(K)FLUORANTHENE	0.31	0.49	0.65	0.69	0.66	0.51	0.57	0.8	27	3.4	0.65
CHRYSENE	0.65	1.1	1.5	1.5	1.8	1	1.4	1.9	27	7.4	1.5
DIBENZ(A,H)ANTHRACENE	0.055	0.095	0.22	0.25	0.24	0.1	0.22	0.25	27	0.99	0.22
FLUORANTHENE	1.3	2	2.6	2.8	3.5	2.3	2.9	3.2	27	16	2.9
FLUORENE	0.11	0.095	0.11	0.09	0.42	0.39	0.31	0.32	27	2	0.30
INDENO(1,2,3-CD)PYRENE	0.36	0.46	0.86	0.91	0.91	0.58	0.77	0.89	27	3.7	0.82
2-METHYLNAPHTHALENE	0.055	0.095	0.11	0.09	0.06	0.1	0.18	0.1	27	0.71	0.16
NAPHTHALENE	0.055	0.095	0.24	0.09	0.3	0.26	0.19	0.1	27	1.1	0.22
PHENANTHRENE	0.89	1.4	1.9	1.8	3	1.9	2.4	3.3	27	16	2.4
PYRENE	1.3	2.1	2.8	3.3	4.1	2.3	2.9	4.3	27	17	3.2
C5-C8 ALIPHATICS	3.75		3.85		3.75		5.5		18	44	10
C9-C12 ALIPHATICS	3.75		3.85		3.75		5.5		18	44	(use C9-C18 valu
C9-C10 AROMATICS	3.75		3.85		8.3		12		18	73	16
BENZENE	0.0185		0.0195		0.019		0.0275		18	0.22	0.060
ETHYLBENZENE	ND (0.037)		ND (0.039)		ND (0.038)		ND (0.055)		18	none detected	
METHYL TERT-BUTYL ETHER (MTBE)	ND (0.037)		ND (0.039)		ND (0.038)		ND (0.055)		18	none detected	
NAPHTHALENE	ND (0.19)		ND (0.19)		ND (0.19)		ND (0.27)		18	none detected	
TOLUENE	0.0185		0.0195		0.019		0.0275		18	0.22	0.057
M/P-XYLENE	ND (0.075)		ND (0.077)		ND (0.075)		ND (0.11)		18	none detected	
O-XYLENE	ND (0.037)		ND (0.039)		ND (0.038)		ND (0.055)		18	none detected	

Table 13.1
Summary of Soil Analytical Data: RGP-9

Parameter	SAMPLING LOCATION						
	RGP-9	RGP-9-SP	RGP-9-B	RGP-9-E	RGP-9-N	RGP-9-S	RGP-9-W
Sampling Date	1/12/2016	1/20/2016	1/20/2016	1/20/2016	1/20/2016	1/20/2016	1/20/2016
Sample Depth	Representative	Stockpile	Bottom	East Sidewall	North Sidewall	South Sidewall	West Sidewall
MADEP-EPH-04-1.1 (mg/Kg dry)							
C9-C18 ALIPHATICS	22	NT	NT	NT	NT	NT	NT
C19-C36 ALIPHATICS	150	NT	NT	NT	NT	NT	NT
UNADJUSTED C11-C22 AROMATICS	330	NT	NT	NT	NT	NT	NT
C11-C22 AROMATICS	210	NT	NT	NT	NT	NT	NT
ACENAPHTHENE	2.1	NT	NT	NT	NT	NT	NT
ACENAPHTHYLENE	ND (0.11)	NT	NT	NT	NT	NT	NT
ANTHRACENE	6.2	NT	NT	NT	NT	NT	NT
BENZO(A)ANTHRACENE	8.4	NT	NT	NT	NT	NT	NT
BENZO(A)PYRENE	6.7	NT	NT	NT	NT	NT	NT
BENZO(B)FLUORANTHENE	8.1	NT	NT	NT	NT	NT	NT
BENZO(G,H,I)PERYLENE	3.5	NT	NT	NT	NT	NT	NT
BENZO(K)FLUORANTHENE	3.1	NT	NT	NT	NT	NT	NT
CHRYSENE	8.6	NT	NT	NT	NT	NT	NT
DIBENZ(A,H)ANTHRACENE	1.1	NT	NT	NT	NT	NT	NT
FLUORANTHENE	20	NT	NT	NT	NT	NT	NT
FLUORENE	3.1	NT	NT	NT	NT	NT	NT
INDENO(1,2,3-CD)PYRENE	4.2	NT	NT	NT	NT	NT	NT
2-METHYLNAPHTHALENE	0.38	NT	NT	NT	NT	NT	NT
NAPHTHALENE	0.46	NT	NT	NT	NT	NT	NT
PHENANTHRENE	20	NT	NT	NT	NT	NT	NT
PYRENE	19	NT	NT	NT	NT	NT	NT
SM 2540G (% Wt)							
% Solids	88.4 / 83.4	87.2	84.9	86.1	88.4	85.2	86.8
SW-846 6010C (mg/Kg dry) Metals Digestion							
ANTIMONY	3.2	NT	NT	NT	NT	NT	NT
ARSENIC	ND (2.7)	NT	NT	NT	NT	NT	NT
BARIUM	78	NT	NT	NT	NT	NT	NT
BERYLLIUM	ND (0.27)	NT	NT	NT	NT	NT	NT
CADMIUM	19	0.58	0.63	0.52	0.60	0.62	0.48
CHROMIUM	38	NT	NT	NT	NT	NT	NT
LEAD	160	NT	NT	NT	NT	NT	NT
NICKEL	28	NT	NT	NT	NT	NT	NT
SELENIUM	ND (5.4)	NT	NT	NT	NT	NT	NT
SILVER	ND (0.54)	NT	NT	NT	NT	NT	NT
THALLIUM	ND (2.7)	NT	NT	NT	NT	NT	NT
VANADIUM	25	NT	NT	NT	NT	NT	NT
ZINC	160	NT	NT	NT	NT	NT	NT
SW-846 7471B (mg/Kg dry) Metals Digestion							
MERCURY	0.2	NT	NT	NT	NT	NT	NT
SW-846 6010C (mg/L) 1311 TCLP EXT							
LEAD	ND (0.010)	NT	NT	NT	NT	NT	NT
SW-846 8082A (mg/Kg dry)							
PCB 1016	ND (0.11)	NT	NT	NT	NT	NT	NT
PCB 1221	ND (0.11)	NT	NT	NT	NT	NT	NT
PCB 1232	ND (0.11)	NT	NT	NT	NT	NT	NT
PCB 1242	ND (0.11)	NT	NT	NT	NT	NT	NT
PCB 1248	ND (0.11)	NT	NT	NT	NT	NT	NT
PCB 1254	0.12	NT	NT	NT	NT	NT	NT
PCB 1260	ND (0.11)	NT	NT	NT	NT	NT	NT
PCB 1262	ND (0.11)	NT	NT	NT	NT	NT	NT
PCB 1268	ND (0.11)	NT	NT	NT	NT	NT	NT
SW-846 8260C (mg/Kg dry)							
ACETONE	ND (0.13)	NT	NT	NT	NT	NT	NT
TERT-AMYLMETHYL ETHER	ND (0.0013)	NT	NT	NT	NT	NT	NT
BENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
BROMOBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
BROMOCHLOROMETHANE	ND (0.0026)	NT	NT	NT	NT	NT	NT
BROMODICHLOROMETHANE	ND (0.0026)	NT	NT	NT	NT	NT	NT
BROMOFORM	ND (0.0026)	NT	NT	NT	NT	NT	NT
BROMOMETHANE	ND (0.013)	NT	NT	NT	NT	NT	NT
2-BUTANONE (MEK)	ND (0.052)	NT	NT	NT	NT	NT	NT
N-BUTYLBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
SEC-BUTYLBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
TERT-BUTYLBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
TERT-BUTYLETHYL ETHER	ND (0.0013)	NT	NT	NT	NT	NT	NT
CARBON DISULFIDE	ND (0.0079)	NT	NT	NT	NT	NT	NT
CARBON TETRACHLORIDE	ND (0.0026)	NT	NT	NT	NT	NT	NT
CHLOROBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
CHLORODIBROMOMETHANE	ND (0.0013)	NT	NT	NT	NT	NT	NT
CHLOROETHANE	ND (0.013)	NT	NT	NT	NT	NT	NT
CHLOROFORM	ND (0.0052)	NT	NT	NT	NT	NT	NT
CHLOROMETHANE	ND (0.013)	NT	NT	NT	NT	NT	NT
2-CHLOROTOLUENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
4-CHLOROTOLUENE	ND (0.0026)	NT	NT	NT	NT	NT	NT

Table 13.1
Summary of Soil Analytical Data: RGP-9

Parameter	SAMPLING LOCATION						
	RGP-9	RGP-9-SP	RGP-9-B	RGP-9-E	RGP-9-N	RGP-9-S	RGP-9-W
Sampling Date	1/12/2016	1/20/2016	1/20/2016	1/20/2016	1/20/2016	1/20/2016	1/20/2016
Sample Depth	Representative	Stockpile	Bottom	East Sidewall	North Sidewall	South Sidewall	West Sidewall
1,2-DIBROMO-3-CHLOROPROPANE	ND (0.0026)	NT	NT	NT	NT	NT	NT
1,2-DIBROMOETHANE (EDB)	ND (0.0013)	NT	NT	NT	NT	NT	NT
DIBROMOMETHANE	ND (0.0026)	NT	NT	NT	NT	NT	NT
1,2-DICHLOROBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
1,3-DICHLOROBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
1,4-DICHLOROBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
DICHLORODIFLUOROMETHANE	ND (0.013)	NT	NT	NT	NT	NT	NT
1,1-DICHLOROETHANE	ND (0.0026)	NT	NT	NT	NT	NT	NT
1,2-DICHLOROETHANE	ND (0.0026)	NT	NT	NT	NT	NT	NT
1,1-DICHLOROETHYLENE	ND (0.0052)	NT	NT	NT	NT	NT	NT
CIS-1,2-DICHLOROETHYLENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
TRANS-1,2-DICHLOROETHYLENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
1,2-DICHLOROPROPANE	ND (0.0026)	NT	NT	NT	NT	NT	NT
1,3-DICHLOROPROPANE	ND (0.0013)	NT	NT	NT	NT	NT	NT
2,2-DICHLOROPROPANE	ND (0.0026)	NT	NT	NT	NT	NT	NT
1,1-DICHLOROPROPENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
CIS-1,3-DICHLOROPROPENE	ND (0.0013)	NT	NT	NT	NT	NT	NT
TRANS-1,3-DICHLOROPROPENE	ND (0.0013)	NT	NT	NT	NT	NT	NT
DIETHYL ETHER	ND (0.013)	NT	NT	NT	NT	NT	NT
DIISOPROPYL ETHER	ND (0.0013)	NT	NT	NT	NT	NT	NT
1,4-DIOXANE	ND (0.13)	NT	NT	NT	NT	NT	NT
ETHYLBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
HEXACHLOROBUTADIENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
2-HEXANONE	ND (0.026)	NT	NT	NT	NT	NT	NT
ISOPROPYLBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
P-ISOPROPYLTOLUENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
METHYL TERT-BUTYL ETHER (MTBE)	ND (0.0052)	NT	NT	NT	NT	NT	NT
METHYLENE CHLORIDE	ND (0.013)	NT	NT	NT	NT	NT	NT
4-METHYL-2-PENTANONE (MIBK)	ND (0.052)	NT	NT	NT	NT	NT	NT
NAPHTHALENE	ND (0.0052)	NT	NT	NT	NT	NT	NT
N-PROPYLBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
STYRENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
1,1,1,2-TETRACHLOROETHANE	ND (0.0026)	NT	NT	NT	NT	NT	NT
1,1,2,2-TETRACHLOROETHANE	ND (0.0013)	NT	NT	NT	NT	NT	NT
TETRACHLOROETHYLENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
TETRAHYDROFURAN	ND (0.013)	NT	NT	NT	NT	NT	NT
TOLUENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
1,2,3-TRICHLOROBENZENE	ND (0.0052)	NT	NT	NT	NT	NT	NT
1,2,4-TRICHLOROBENZENE	ND (0.0052)	NT	NT	NT	NT	NT	NT
1,1,1-TRICHLOROETHANE	ND (0.0026)	NT	NT	NT	NT	NT	NT
1,1,2-TRICHLOROETHANE	ND (0.0026)	NT	NT	NT	NT	NT	NT
TRICHLOROETHYLENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
TRICHLOROFLUOROMETHANE	ND (0.013)	NT	NT	NT	NT	NT	NT
1,2,3-TRICHLOROPROPANE	ND (0.013)	NT	NT	NT	NT	NT	NT
1,2,4-TRIMETHYLBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
1,3,5-TRIMETHYLBENZENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
VINYL CHLORIDE	ND (0.013)	NT	NT	NT	NT	NT	NT
M/P-XYLENE	ND (0.0052)	NT	NT	NT	NT	NT	NT
O-XYLENE	ND (0.0026)	NT	NT	NT	NT	NT	NT
SW-846 8270D (mg/Kg dry)							
ACENAPHTHENE	1.9	0.27	0.65	ND (0.20)	ND (0.19)	0.36	0.23
ACENAPHTHYLENE	0.21	ND (0.19)	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.20)	ND (0.19)
ACETOPHENONE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
ANILINE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
ANTHRACENE	5.5	0.46	1.2	0.2	0.37	0.97	0.52
BENZO(A)ANTHRACENE	9.5	0.99	2.5	0.58	0.85	2.0	1.2
BENZO(A)PYRENE	7.0	0.86	2.3	0.57	0.81	1.8	1.1
BENZO(B)FLUORANTHENE	7.9	0.98	2.6	0.76	0.93	2.0	1.3
BENZO(G,H,I)PERYLENE	3.3	0.42	1.8	0.24	0.58	1.2	0.54
BENZO(K)FLUORANTHENE	3.5	0.41	0.98	0.21	0.33	0.81	0.54
BIS(2-CHLOROETHOXY)METHANE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
BIS(2-CHLOROETHYL)ETHER	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
BIS(2-CHLOROISOPROPYL)ETHER	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
BIS(2-ETHYLHEXYL)PHTHALATE	0.85	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
4-BROMOPHENYL PHENYL ETHER	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
BUTYLBENZYLPHTHALATE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
4-CHLOROANILINE	ND (0.74)	ND (0.76)	ND (0.78)	ND (0.76)	ND (0.74)	ND (0.77)	ND (0.75)
2-CHLORONAPHTHALENE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
2-CHLOROPHENOL	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
CHRYSENE	8.7	0.98	2.5	0.58	0.82	2.0	1.1
DIBENZ(A,H)ANTHRACENE	0.96	ND (0.19)	0.34	ND (0.20)	ND (0.19)	0.23	ND (0.19)
DIBENZOFURAN	1.4	ND (0.39)	0.47	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
DI-N-BUTYLPHTHALATE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
1,2-DICHLOROBENZENE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
1,3-DICHLOROBENZENE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)

Table 13.1
Summary of Soil Analytical Data: RGP-9

Parameter	SAMPLING LOCATION						
	RGP-9	RGP-9-SP	RGP-9-B	RGP-9-E	RGP-9-N	RGP-9-S	RGP-9-W
Sampling Date	1/12/2016	1/20/2016	1/20/2016	1/20/2016	1/20/2016	1/20/2016	1/20/2016
Sample Depth	Representative	Stockpile	Bottom	East Sidewall	North Sidewall	South Sidewall	West Sidewall
1,4-DICHLOROBENZENE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
3,3'-DICHLOROBENZIDINE	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.20)	ND (0.19)	ND (0.20)	ND (0.19)
2,4-DICHLOROPHENOL	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
DIETHYLPHTHALATE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
2,4-DIMETHYLPHENOL	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
DIMETHYLPHTHALATE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
2,4-DINITROPHENOL	ND (0.74)	ND (0.76)	ND (0.78)	ND (0.76)	ND (0.74)	ND (0.77)	ND (0.75)
2,4-DINITROTOLUENE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
2,6-DINITROTOLUENE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
DI-N-OCTYLPHTHALATE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
FLUORANTHENE	23	2.3	5.2	1.2	2.0	3.8	2.6
FLUORENE	2.8	0.31	0.7	ND (0.20)	0.22	0.51	0.33
HEXACHLOROBENZENE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
HEXACHLOROBUTADIENE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
HEXACHLOROETHANE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
INDENO(1,2,3-CD)PYRENE	3.9	0.46	1.7	0.24	0.58	1.1	0.48
ISOPHORONE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
2-METHYLNAPHTHALENE	0.44	ND (0.19)	0.31	ND (0.20)	ND (0.19)	ND (0.20)	ND (0.19)
O-CRESOL	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
M/P-CRESOL	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
NAPHTHALENE	0.82	ND (0.19)	0.78	ND (0.20)	ND (0.19)	0.36	0.35
NITROBENZENE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
2-NITROPHENOL	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
4-NITROPHENOL	ND (0.74)	ND (0.76)	ND (0.78)	ND (0.76)	ND (0.74)	ND (0.77)	ND (0.75)
PENTACHLOROPHENOL	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
PHENANTHRENE	22	2.0	4.1	0.9	1.6	3.9	2.5
PHENOL	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
PYRENE	23	2.5	4.8	1.2	1.9	4.0	3.0
1,2,4-TRICHLOROBENZENE	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
2,4,5-TRICHLOROPHENOL	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
2,4,6-TRICHLOROPHENOL	ND (0.38)	ND (0.39)	ND (0.40)	ND (0.39)	ND (0.38)	ND (0.40)	ND (0.39)
NOTES:							
1. ND = Not detected above the lab reporting limits shown in parenthesis.							
2. NT = Not tested.							

Table 13.2
Derivation of Soil Exposure Point Concentrations: RGP-9

Parameter	SAMPLING LOCATION						Exposure Point Concentration
	RGP-9	RGP-9-B	RGP-9-E	RGP-9-N	RGP-9-S	RGP-9-W	
Sampling Date	1/12/2016	1/20/2016	1/20/2016	1/20/2016	1/20/2016	1/20/2016	
Sample Depth	Representative	Bottom	East Sidewall	North Sidewall	South Sidewall	West Sidewall	
MADEP-EPH-04-1.1 (mg/Kg dry)							
C9-C18 ALIPHATICS	22						22
C19-C36 ALIPHATICS	150						150
C11-C22 AROMATICS	210						210
SW-846 6010C (mg/Kg dry) Metals Digestion							
CADMIUM		0.63	0.52	0.60	0.62	0.48	0.57
SW-846 8270D (mg/Kg dry)							
ACENAPHTHENE		0.65	0.10	0.095	0.36	0.23	0.29
ACENAPHTHYLENE		0.10	0.10	0.095	0.10	0.095	0.10
ANTHRACENE		1.2	0.2	0.37	0.97	0.52	0.65
BENZO(A)ANTHRACENE		2.5	0.58	0.85	2.0	1.2	1.4
BENZO(A)PYRENE		2.3	0.57	0.81	1.8	1.1	1.3
BENZO(B)FLUORANTHENE		2.6	0.76	0.93	2.0	1.3	1.5
BENZO(G,H,I)PERYLENE		1.8	0.24	0.58	1.2	0.54	0.87
BENZO(K)FLUORANTHENE		0.98	0.21	0.33	0.81	0.54	0.57
CHRYSENE		2.5	0.58	0.82	2.0	1.1	1.4
DIBENZ(A,H)ANTHRACENE		0.34	0.10	0.095	0.23	0.095	0.17
DIBENZOFURAN		0.47	0.195	0.19	0.20	0.195	NCOC *
FLUORANTHENE		5.2	1.2	2.0	3.8	2.6	3.0
FLUORENE		0.7	0.10	0.22	0.51	0.33	0.37
INDENO(1,2,3-CD)PYRENE		1.7	0.24	0.58	1.1	0.48	0.82
2-METHYLNAPHTHALENE		0.31	0.10	0.095	0.10	0.095	0.14
NAPHTHALENE		0.78	0.10	0.095	0.36	0.35	0.34
PHENANTHRENE		4.1	0.90	1.6	3.9	2.5	2.6
PYRENE		4.8	1.2	1.9	4.0	3.0	3.0

NOTES:

1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. NCOC = Not a Contaminant of Concern

* dibenzofuran is a component of the C11-C22 Aromatic Hydrocarbon subset of extractable petroleum hydrocarbons (EPH), and is not a separate contaminant of concern.

Table 14
Summary of Soil Analytical Data: RGP-3456

Parameter	SAMPLING LOCATION
	RGP-3456
Sampling Date	1/13/2016
Sample Depth	Stockpile
MADEP-EPH-04-1.1 (mg/Kg dry)	
C9-C18 ALIPHATICS	18
C19-C36 ALIPHATICS	100
UNADJUSTED C11-C22 AROMATICS	340
C11-C22 AROMATICS	230
ACENAPHTHENE	1.7
ACENAPHTHYLENE	1.6
ANTHRACENE	4.7
BENZO(A)ANTHRACENE	7.6
BENZO(A)PYRENE	6.6
BENZO(B)FLUORANTHENE	8.4
BENZO(G,H,I)PERYLENE	3.8
BENZO(K)FLUORANTHENE	3.2
CHRYSENE	7.9
DIBENZ(A,H)ANTHRACENE	1.2
FLUORANTHENE	18
FLUORENE	3.9
INDENO(1,2,3-CD)PYRENE	4
2-METHYLNAPHTHALENE	1.7
NAPHTHALENE	4.9
PHENANTHRENE	18
PYRENE	17
SM 2540G (% Wt)	
% Solids	85.7 / 81.7
SW-846 6010C (mg/Kg dry) Metals Digestion	
ANTIMONY	3.1
ARSENIC	ND (2.8)
BARIUM	120
BERYLLIUM	ND (0.28)
CADMIUM	0.91
CHROMIUM	20
LEAD	540
NICKEL	20
SELENIUM	ND (5.7)
SILVER	ND (0.57)
THALLIUM	ND (2.8)
VANADIUM	34
ZINC	460
SW-846 7471B (mg/Kg dry) Metals Digestion	
MERCURY	0.24
SW-846 6010C (mg/L) 1311 TCLP EXT	
LEAD	0.051
SW-846 8082A (mg/Kg dry)	
PCB 1016	ND (0.12)
PCB 1221	ND (0.12)
PCB 1232	ND (0.12)
PCB 1242	ND (0.12)
PCB 1248	0.12
PCB 1254	0.24
PCB 1260	0.13
PCB 1262	ND (0.12)
PCB 1268	ND (0.12)
SW-846 8260C (mg/Kg dry)	
ACETONE	ND (0.13)
TERT-AMYLMETHYL ETHER	ND (0.0013)
BENZENE	ND (0.0027)
BROMOBENZENE	ND (0.0027)
BROMOCHLOROMETHANE	ND (0.0027)
BROMODICHLOROMETHANE	ND (0.0027)
BROMOFORM	ND (0.0027)
BROMOMETHANE	ND (0.013)
2-BUTANONE (MEK)	ND (0.054)
N-BUTYLBENZENE	ND (0.0027)
SEC-BUTYLBENZENE	ND (0.0027)
TERT-BUTYLBENZENE	ND (0.0027)
TERT-BUTYLETHYL ETHER	ND (0.0013)
CARBON DISULFIDE	ND (0.0081)
CARBON TETRACHLORIDE	ND (0.0027)
CHLOROBENZENE	ND (0.0027)
CHLORODIBROMOMETHANE	ND (0.0013)

Table 14
Summary of Soil Analytical Data: RGP-3456

Parameter	SAMPLING LOCATION
	RGP-3456
Sampling Date	1/13/2016
Sample Depth	Stockpile
CHLOROETHANE	ND (0.013)
CHLOROFORM	ND (0.0054)
CHLOROMETHANE	ND (0.013)
2-CHLOROTOLUENE	ND (0.0027)
4-CHLOROTOLUENE	ND (0.0027)
1,2-DIBROMO-3-CHLOROPROPANE	ND (0.0027)
1,2-DIBROMOETHANE (EDB)	ND (0.0013)
DIBROMOMETHANE	ND (0.0027)
1,2-DICHLOROBENZENE	ND (0.0027)
1,3-DICHLOROBENZENE	ND (0.0027)
1,4-DICHLOROBENZENE	ND (0.0027)
DICHLORODIFLUOROMETHANE	ND (0.013)
1,1-DICHLOROETHANE	ND (0.0027)
1,2-DICHLOROETHANE	ND (0.0027)
1,1-DICHLOROETHYLENE	ND (0.0054)
CIS-1,2-DICHLOROETHYLENE	ND (0.0027)
TRANS-1,2-DICHLOROETHYLENE	ND (0.0027)
1,2-DICHLOROPROPANE	ND (0.0027)
1,3-DICHLOROPROPANE	ND (0.0013)
2,2-DICHLOROPROPANE	ND (0.0027)
1,1-DICHLOROPROPENE	ND (0.0027)
CIS-1,3-DICHLOROPROPENE	ND (0.0013)
TRANS-1,3-DICHLOROPROPENE	ND (0.0013)
DIETHYL ETHER	ND (0.013)
DIISOPROPYL ETHER	ND (0.0013)
1,4-DIOXANE	ND (0.13)
ETHYLBENZENE	ND (0.0027)
HEXACHLOROBUTADIENE	ND (0.0027)
2-HEXANONE	ND (0.027)
ISOPROPYLBENZENE	ND (0.0027)
P-ISOPROPYLTOLUENE	ND (0.0027)
METHYL TERT-BUTYL ETHER (MTBE)	ND (0.0054)
METHYLENE CHLORIDE	ND (0.013)
4-METHYL-2-PENTANONE (MIBK)	ND (0.054)
NAPHTHALENE	0.037
N-PROPYLBENZENE	ND (0.0027)
STYRENE	ND (0.0027)
1,1,1,2-TETRACHLOROETHANE	ND (0.0027)
1,1,2,2-TETRACHLOROETHANE	ND (0.0013)
TETRACHLOROETHYLENE	ND (0.0027)
TETRAHYDROFURAN	ND (0.013)
TOLUENE	ND (0.0027)
1,2,3-TRICHLOROBENZENE	ND (0.0054)
1,2,4-TRICHLOROBENZENE	ND (0.0054)
1,1,1-TRICHLOROETHANE	ND (0.0027)
1,1,2-TRICHLOROETHANE	ND (0.0027)
TRICHLOROETHYLENE	ND (0.0027)
TRICHLOROFLUOROMETHANE	ND (0.013)
1,2,3-TRICHLOROPROPANE	ND (0.013)
1,2,4-TRIMETHYLBENZENE	ND (0.0027)
1,3,5-TRIMETHYLBENZENE	ND (0.0027)
VINYL CHLORIDE	ND (0.013)
M/P-XYLENE	ND (0.0054)
O-XYLENE	ND (0.0027)
SW-846 8270D (mg/Kg dry)	
ACENAPHTHENE	1.8
ACENAPHTHYLENE	1.3
ACETOPHENONE	ND (0.40)
ANILINE	ND (0.40)
ANTHRACENE	4.6
BENZO(A)ANTHRACENE	11
BENZO(A)PYRENE	8.9
BENZO(B)FLUORANTHENE	11
BENZO(G,H,I)PERYLENE	4
BENZO(K)FLUORANTHENE	4.4
BIS(2-CHLOROETHOXY)METHANE	ND (0.40)
BIS(2-CHLOROETHYL)ETHER	ND (0.40)
BIS(2-CHLOROISOPROPYL)ETHER	ND (0.40)
BIS(2-ETHYLHEXYL)PHTHALATE	0.67
4-BROMOPHENYL PHENYL ETHER	ND (0.40)

Table 14
Summary of Soil Analytical Data: RGP-3456

Parameter	SAMPLING LOCATION
	RGP-3456
Sampling Date	1/13/2016
Sample Depth	Stockpile
BUTYLBENZYLPHTHALATE	ND (0.40)
4-CHLOROANILINE	ND (0.77)
2-CHLORONAPHTHALENE	ND (0.40)
2-CHLOROPHENOL	ND (0.40)
CHRYSENE	9.8
DIBENZ(A,H)ANTHRACENE	1.6
DIBENZOFURAN	1.8
DI-N-BUTYLPHTHALATE	ND (0.40)
1,2-DICHLOROBENZENE	ND (0.40)
1,3-DICHLOROBENZENE	ND (0.40)
1,4-DICHLOROBENZENE	ND (0.40)
3,3'-DICHLOROBENZIDINE	ND (0.20)
2,4-DICHLOROPHENOL	ND (0.40)
DIETHYLPHTHALATE	ND (0.40)
2,4-DIMETHYLPHENOL	ND (0.40)
DIMETHYLPHTHALATE	ND (0.40)
2,4-DINITROPHENOL	ND (0.77)
2,4-DINITROTOLUENE	ND (0.40)
2,6-DINITROTOLUENE	ND (0.40)
DI-N-OCTYLPHTHALATE	ND (0.40)
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	ND (0.40)
FLUORANTHENE	25
FLUORENE	3.2
HEXACHLOROBENZENE	ND (0.40)
HEXACHLOROBUTADIENE	ND (0.40)
HEXACHLOROETHANE	ND (0.40)
INDENO(1,2,3-CD)PYRENE	4.6
ISOPHORONE	ND (0.40)
2-METHYLNAPHTHALENE	1.3
O-CRESOL	ND (0.40)
M/P-CRESOL	ND (0.40)
NAPHTHALENE	4.2
NITROBENZENE	ND (0.40)
2-NITROPHENOL	ND (0.40)
4-NITROPHENOL	ND (0.77)
PENTACHLOROPHENOL	ND (0.40)
PHENANTHRENE	22
PHENOL	ND (0.40)
PYRENE	25
1,2,4-TRICHLOROBENZENE	ND (0.40)
2,4,5-TRICHLOROPHENOL	ND (0.40)
2,4,6-TRICHLOROPHENOL	ND (0.40)
NOTES:	
1. ND = Not detected above the lab reporting limits shown in parenthesis.	
2. NT = Not tested.	

Table 15.1
Summary of Soil Analytical Data:
RGP-10

Parameter	Sampling Location			
	RGP-10	RGP-10-SP2	RGP-10-SP3	RGP-10-SP4
Sampling Date	2/23/2016	6/3/2016	6/23/2016	6/24/2016
Sample Depth	Representative	Stockpile	Stockpile	Stockpile
SM 2540G (% Wt)				
% Solids	88.5	91.4	86.8	88.1
SM21-22 2510B Modified (µmhos/cm)				
SPECIFIC CONDUCTANCE	5.1	6.1	4.0	5.4
SW-846 1030 (present/absent)				
IGNITABILITY	Present	Present	0.0	Absent
SW-846 6010C/D (mg/Kg dry) Metals Digestion				
ANTIMONY	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.8)
ARSENIC	7.6	ND (2.7)	ND (2.7)	ND (2.8)
BARIUM	18	21	40	46
BERYLLIUM	ND (0.27)	ND (0.27)	0.60	ND (0.28)
CADMIUM	1.4	ND (0.27)	0.48	ND (0.28)
CHROMIUM	3.0	4.6	9.4	9.0
LEAD	34	22	59	53
NICKEL	2.8	7.4	11	8.3
SELENIUM	ND (5.3)	ND (5.3)	ND (5.5)	ND (5.6)
SILVER	ND (0.53)	ND (0.53)	ND (0.55)	ND (0.56)
THALLIUM	ND (2.7)	ND (2.7)	ND (2.7)	ND (2.8)
VANADIUM	7.6	14	31	28
ZINC	54	25	45	44
SW-846 6010C/D (mg/L) 1311 TCLP EXT				
LEAD	ND (0.010)	0.093	0.031	1.1
SW-846 7471B (mg/Kg dry) Metals Digestion				
MERCURY	0.032	0.074	0.093	0.052
SW-846 8081B (mg/Kg dry)				
ALDRIN	ND (0.11) *	ND (0.11) *	ND (0.028)	ND (0.11) *
ALPHA-BHC	ND (0.11)	ND (0.11)	ND (0.028)	ND (0.11)
BETA-BHC	ND (0.11)	ND (0.11)	ND (0.028)	ND (0.11)
DELTA-BHC	ND (0.11)	ND (0.11)	ND (0.028)	ND (0.11)
GAMMA-BHC (LINDANE)	ND (0.045) *	ND (0.043) *	ND (0.011) *	ND (0.045) *
CHLORDANE	0.85	ND (0.43)	ND (0.11)	ND (0.45)
4,4'-DDD	ND (0.090)	ND (0.086)	ND (0.023)	ND (0.091)
4,4'-DDE	ND (0.090)	ND (0.086)	ND (0.023)	ND (0.091)
4,4'-DDT	ND (0.090)	ND (0.086)	ND (0.023)	ND (0.091)
DIELDRIN	ND (0.090) *	ND (0.086) *	ND (0.023)	ND (0.091) *
ENDOSULFAN I	ND (0.11)	ND (0.11)	ND (0.028)	ND (0.11)
ENDOSULFAN II	ND (0.18)	ND (0.17)	ND (0.045)	ND (0.18)
ENDOSULFAN SULFATE	0.39	ND (0.17)	ND (0.045)	ND (0.18)
ENDRIN	ND (0.18)	ND (0.17)	ND (0.045)	ND (0.18)
ENDRIN KETONE	ND (0.18)	ND (0.17)	ND (0.045)	ND (0.18)
HEPTACHLOR	ND (0.11)	ND (0.11)	ND (0.028)	ND (0.11)
HEPTACHLOR EPOXIDE	ND (0.11) *	ND (0.11) *	ND (0.028)	ND (0.11) *
HEXACHLOROBENZENE	ND (0.14)	ND (0.13)	ND (0.034)	ND (0.14)
METHOXYCHLOR	ND (1.1)	ND (1.1)	ND (0.28)	ND (1.1)
SW-846 8082A (mg/Kg dry)				
PCB 1016	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1221	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1232	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1242	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1248	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1254	ND (0.11)	0.17	ND (0.11)	ND (0.11)
PCB 1260	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1262	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
PCB 1268	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
SW-846 8100 Modified (mg/Kg dry)				
TPH	170000	1100	730	230

Table 15.1
Summary of Soil Analytical Data:
RGP-10

Parameter	Sampling Location			
	RGP-10	**RGP-10-SP2**	**RGP-10-SP3**	**RGP-10-SP4**
Sampling Date	2/23/2016	6/3/2016	6/23/2016	6/24/2016
Sample Depth	Representative	Stockpile	Stockpile	Stockpile
SW-846 8151A (µg/kg dry)				
2,4-D	ND (280)	ND (110)	ND (29)	ND (28)
2,4-DB	ND (280)	ND (110)	ND (29)	ND (28)
2,4,5-TP (SILVEX)	ND (28)	ND (11)	ND (2.9)	ND (2.8)
2,4,5-T	ND (28)	ND (11)	ND (2.9)	ND (2.8)
DALAPON	ND (690)	ND (270)	ND (72)	ND (71)
DICAMBA	ND (28)	ND (11)	ND (2.9)	ND (2.8)
DICHLOROPROP	ND (280)	ND (110)	ND (29)	ND (28)
DINOSEB	ND (140)	ND (54)	ND (14)	ND (14)
MCPA	ND (28000)	ND (11000)	ND (2900)	ND (2800)
MCPP	ND (28000)	ND (11000)	ND (2900)	ND (2800)
SW-846 8260C (mg/Kg dry)				
ACETONE	ND (2500) *	ND (2900) *	ND (1900) *	ND (0.097)
TERT-AMYLMETHYL ETHER	ND (25)	ND (29)	ND (19)	ND (0.00097)
BENZENE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
BROMOBENZENE	ND (51)	ND (58)	ND (38)	ND (0.0019)
BROMOCHLOROMETHANE	ND (51)	ND (120)	ND (38)	ND (0.0019)
BROMODICHLOROMETHANE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
BROMOFORM	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
BROMOMETHANE	ND (100) *	ND (120) *	ND (190) *	ND (0.0097)
2-BUTANONE (MEK)	ND (1000) *	ND (1200) *	ND (750) *	ND (0.039)
N-BUTYLBENZENE	ND (51)	ND (58)	ND (38)	ND (0.0019)
SEC-BUTYLBENZENE	ND (51)	ND (58)	ND (38)	ND (0.0019)
TERT-BUTYLBENZENE	ND (51)	ND (58)	ND (38)	ND (0.0019)
TERT-BUTYLETHYL ETHER	ND (25)	ND (29)	ND (19)	ND (0.00097)
CARBON DISULFIDE	ND (510) *	ND (580) *	ND (380) *	ND (0.0058)
CARBON TETRACHLORIDE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
CHLOROBENZENE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
CHLORODIBROMOMETHANE	ND (25) *	ND (29) *	ND (19) *	ND (0.00097)
CHLOROETHANE	ND (100)	ND (120) *	ND (75)	ND (0.0097)
CHLOROFORM	ND (100) *	ND (120) *	ND (75) *	ND (0.0039)
CHLOROMETHANE	ND (100)	ND (120) *	ND (190) *	ND (0.0097)
2-CHLOROTOLUENE	ND (51)	ND (58)	ND (38)	ND (0.0019)
4-CHLOROTOLUENE	ND (51)	ND (58)	ND (38)	ND (0.0019)
1,2-DIBROMO-3-CHLOROPROPANE	ND (200) *	ND (230) *	ND (150) *	ND (0.0097)
1,2-DIBROMOETHANE (EDB)	ND (25) *	ND (29) *	ND (19) *	ND (0.00097)
DIBROMOMETHANE	ND (51)	ND (58)	ND (38)	ND (0.0019)
1,2-DICHLOROBENZENE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
1,3-DICHLOROBENZENE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
1,4-DICHLOROBENZENE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
DICHLORODIFLUOROMETHANE	ND (100)	ND (120)	ND (75)	ND (0.0097)
1,1-DICHLOROETHANE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
1,2-DICHLOROETHANE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
1,1-DICHLOROETHYLENE	ND (51) *	ND (58) *	ND (38) *	ND (0.0039)
CIS-1,2-DICHLOROETHYLENE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
TRANS-1,2-DICHLOROETHYLENE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
1,2-DICHLOROPROPANE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
1,3-DICHLOROPROPANE	ND (25)	ND (29)	ND (19)	ND (0.00097)
2,2-DICHLOROPROPANE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
1,1-DICHLOROPROPENE	ND (100) *	ND (120) *	ND (75) *	ND (0.0019)
CIS-1,3-DICHLOROPROPENE	ND (25) *	ND (29) *	ND (19) *	ND (0.00097)
TRANS-1,3-DICHLOROPROPENE	ND (25) *	ND (29) *	ND (19) *	ND (0.00097)
DIETHYL ETHER	ND (100)	ND (120) *	ND (75)	ND (0.0097)
DIISOPROPYL ETHER	ND (25)	ND (29)	ND (19)	ND (0.00097)
1,4-DIOXANE	ND (2500) *	ND (2900) *	ND (3800) *	ND (0.097)
ETHYLBENZENE	ND (51) *	ND (58) *	ND (38)	ND (0.0019)
HEXACHLOROBUTADIENE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
2-HEXANONE	ND (510) *	ND (580) *	ND (380) *	ND (0.019)
ISOPROPYLBENZENE	ND (51)	ND (58)	ND (38)	ND (0.0019)
P-ISOPROPYLTOLUENE	ND (51)	ND (58)	ND (38)	ND (0.0019)
METHYL TERT-BUTYL ETHER (MTBE)	ND (51) *	ND (58) *	ND (38) *	ND (0.0039)
METHYLENE CHLORIDE	ND (250) *	ND (290) *	ND (190) *	ND (0.0097)
4-METHYL-2-PENTANONE (MIBK)	ND (510) *	ND (580) *	ND (380) *	ND (0.019)
NAPHTHALENE	7300	4300	3300	ND (0.0097)
N-PROPYLBENZENE	ND (51)	ND (58)	ND (38)	ND (0.0019)
STYRENE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
1,1,1,2-TETRACHLOROETHANE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
1,1,2,2-TETRACHLOROETHANE	ND (25) *	ND (58) *	ND (19) *	ND (0.00097)

Table 15.1
Summary of Soil Analytical Data:
RGP-10

Parameter	Sampling Location			
	RGP-10	RGP-10-SP2	RGP-10-SP3	RGP-10-SP4
Sampling Date	2/23/2016	6/3/2016	6/23/2016	6/24/2016
Sample Depth	Representative	Stockpile	Stockpile	Stockpile
TETRACHLOROETHYLENE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
TETRAHYDROFURAN	ND (200)	ND (230)	ND (150)	ND (0.0097)
TOLUENE	ND (51) *	78	ND (38) *	ND (0.0019)
1,2,3-TRICHLOROBENZENE	ND (200)	ND (230)	ND (150)	ND (0.0039)
1,2,4-TRICHLOROBENZENE	ND (51) *	ND (58) *	ND (38) *	ND (0.0039)
1,1,1-TRICHLOROETHANE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
1,1,2-TRICHLOROETHANE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
TRICHLOROETHYLENE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
TRICHLOROFLUOROMETHANE	ND (100)	ND (120)	ND (75)	ND (0.0097)
1,2,3-TRICHLOROPROPANE	ND (100)	ND (120) *	ND (75)	ND (0.0019)
1,2,4-TRIMETHYLBENZENE	ND (51)	ND (58)	ND (38)	ND (0.0019)
1,3,5-TRIMETHYLBENZENE	ND (51) *	ND (58) *	ND (38) *	ND (0.0019)
VINYL CHLORIDE	ND (100) *	ND (120) *	ND (75) *	ND (0.0097)
M/P-XYLENE	ND (100)	ND (120) *	ND (75)	ND (0.0039)
O-XYLENE	ND (51)	ND (58)	ND (38)	ND (0.0019)
SW-846 8260C (mg/L) 1311 TCLP ZHE				
BENZENE	0.35	ND (0.10)	ND (0.010)	
SW-846 8270D (mg/Kg dry)				
ACENAPHTHENE	95	2.7	0.82	1.7
ACENAPHTHYLENE	1200	22	2.4	10
ACETOPHENONE	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
ANILINE	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
ANTHRACENE	NT	22	4.4	20
BENZO(A)ANTHRACENE	1000	28	7.7	28
BENZO(A)PYRENE	770	21	6.2	20
BENZO(B)FLUORANTHENE	900	24	7.4	27
BENZO(G,H,I)PERYLENE	320	11	4.0	13
BENZO(K)FLUORANTHENE	360	9.9	3.3	11
BIS(2-CHLOROETHOXY)METHANE	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
BIS(2-CHLOROETHYL)ETHER	ND (7.4) *	ND (0.73) *	ND (0.37)	ND (0.38)
BIS(2-CHLOROISOPROPYL)ETHER	ND (7.4) *	ND (0.73) *	ND (0.37)	ND (0.38)
BIS(2-ETHYLHEXYL)PHTHALATE	ND (7.4)	ND (0.73)	ND (0.37)	0.46
4-BROMOPHENYL PHENYL ETHER	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
BUTYLBENZYLPHTHALATE	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
4-CHLOROANILINE	ND (14) *	ND (1.4) *	ND (0.71)	3.5
2-CHLORONAPHTHALENE	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
2-CHLOROPHENOL	ND (7.4) *	ND (0.73) *	ND (0.37)	ND (0.38)
CHRYSENE	940	23	6.4	26
DIBENZ(A,H)ANTHRACENE	120	4.9	1.3	4.1
DIBENZOFURAN	1100	23	2.4	10
DI-N-BUTYLPHTHALATE	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
1,2-DICHLOROBENZENE	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
1,3-DICHLOROBENZENE	ND (7.4) *	ND (0.73)	ND (0.37)	ND (0.38)
1,4-DICHLOROBENZENE	ND (7.4) *	ND (0.73) *	ND (0.37)	ND (0.38)
3,3'-DICHLOROBENZIDINE	ND (3.7) *	ND (0.37)	ND (0.18)	ND (0.19)
2,4-DICHLOROPHENOL	ND (7.4) *	ND (0.73) *	ND (0.37)	ND (0.38)
DIETHYLPHTHALATE	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
2,4-DIMETHYLPHENOL	71	0.84	ND (0.37)	ND (0.38)
DIMETHYLPHTHALATE	ND (7.4) *	ND (0.73) *	ND (0.37)	ND (0.38)
2,4-DINITROPHENOL	ND (14) *	ND (1.4)	ND (0.71)	ND (0.75)
2,4-DINITROTOLUENE	ND (7.4) *	ND (0.73) *	ND (0.37)	ND (0.38)
2,6-DINITROTOLUENE	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
DI-N-OCTYLPHTHALATE	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
FLUORANTHENE	3000	74	19	63
FLUORENE	1700	35	4.3	21
HEXACHLOROBENZENE	ND (7.4) *	ND (0.73) *	ND (0.37)	ND (0.38)
HEXACHLOROBUTADIENE	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
HEXACHLOROETHANE	ND (7.4) *	ND (0.73) *	ND (0.37)	ND (0.38)
INDENO(1,2,3-CD)PYRENE	380	13	4.3	13
ISOPHORONE	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
2-METHYLNAPHTHALENE	1400	26	1.6	5.6
O-CRESOL	85	1.1	ND (0.37)	ND (0.38)
M/P-CRESOL	250	3.7	ND (0.37)	ND (0.38)
NAPHTHALENE	5900	99	3.3	7.1
NITROBENZENE	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
2-NITROPHENOL	ND (7.4)	ND (0.73)	ND (0.37)	ND (0.38)
4-NITROPHENOL	ND (14)	ND (1.4)	ND (0.71)	ND (0.75)

Table 15.1
Summary of Soil Analytical Data:
RGP-10

Parameter	Sampling Location			
	RGP-10	**RGP-10-SP2**	**RGP-10-SP3**	**RGP-10-SP4**
Sampling Date	2/23/2016	6/3/2016	6/23/2016	6/24/2016
Sample Depth	Representative	Stockpile	Stockpile	Stockpile
PENTACHLOROPHENOL	ND (7.4) *	ND (0.73)	ND (0.37)	ND (0.38)
PHENANTHRENE	4100	110	16	79
PHENOL	340	3.6	ND (0.37)	ND (0.38)
PYRENE	1900	49	13	47
1,2,4-TRICHLOROBENZENE	ND (7.4) *	ND (0.73)	ND (0.37)	ND (0.38)
2,4,5-TRICHLOROPHENOL	ND (7.4) *	ND (0.73)	ND (0.37)	ND (0.38)
2,4,6-TRICHLOROPHENOL	ND (7.4) *	ND (0.73) *	ND (0.37)	ND (0.38)
SW-846 9014 (mg/Kg)				
REACTIVE CYANIDE	ND (4.0)	ND (3.9)	ND (3.9)	ND (3.9)
SW-846 9030A (mg/Kg)				
REACTIVE SULFIDE	ND (20)	ND (20)	ND (19)	ND (20)
SW-846 9045C (pH Units)				
PH	10	8.0	7.9	7.0

NOTES:
1. An asterisk (*) following a detection limit indicates that the minimum laboratory reporting limit exceeds one or more of the regulatory criteria.
2. ND = Not detected above the lab reporting limits shown in parenthesis.
3. NT = Not tested.
4. ~ = No Method 1 Standard or UCL available
5. Shaded values exceed the MCP Reportable Concentrations (RCs).
6. Bolded values exceed the Method 1 Cleanup Standards.
7. Con-Test Laboratory is not responsible for the regulatory content, data comparisons with regulations, or decisions made based on data comparisons shown in this deliverable. Please notify us should you be aware of any regulatory information that may not be correct or that has changed.

Table 15.2
Summary of Confirmatory Soil Analytical Data:
RGP-10

Parameter	SAMPLING LOCATION										
	RGP-10-B	**RGP-10-W**	**RGP-10-B2**	**RGP-10-B3***	**RGP-10-B4***	**RGP-10-W2***	**B10**	**B11***	**B12***	**B13***	**B14***
Sampling Date	5/13/2016	5/13/2016	6/3/2016	6/23/2016	6/23/2016	6/23/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016
Sample Depth	7 Feet	4.5-7 Feet	8 Feet	6 Feet	9 Feet	3-6 Feet	3 Feet	3 Feet	3 Feet	3 Feet	3 Feet
MADEP-EPH-04-1.1 (mg/Kg dry)											
C9-C18 ALIPHATICS	ND (21)	ND (21)	ND (23)	ND (11)	ND (11)	ND (11)	NT	NT	NT	NT	NT
C19-C36 ALIPHATICS	23	35	26	14	ND (11)	25	NT	NT	NT	NT	NT
UNADJUSTED C11-C22 AROMATICS	240	170	470	75	110	150	NT	NT	NT	NT	NT
C11-C22 AROMATICS	150	120	290	52	68	99	NT	NT	NT	NT	NT
ACENAPHTHENE	0.49	0.46	0.82	ND (0.11)	0.31	0.62	0.53	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)
ACENAPHTHYLENE	1.8	0.53	3.7	0.55	1.1	1.1	0.89	0.61	1.1	ND (0.37)	0.54
ANTHRACENE	3.0	1.6	7.2	1.1	2.6	1.9	2.0	1.1	2.2	0.72	0.67
BENZO(A)ANTHRACENE	5.7	3.7	14	1.8	2.9	4.0	6.1	3.1	6.0	2.2	2.7
BENZO(A)PYRENE	5.4	3.9	11	1.5	2.3	3.7	5.3	2.8	5.1	2.1	2.7
BENZO(B)FLUORANTHENE	7.3	5.1	16	2.1	3.0	4.7	6.8	3.8	6.9	2.8	3.6
BENZO(G,H,I)PERYLENE	2.7	2.1	6.2	0.84	1.2	2.0	2.6	1.6	3.0	1.3	1.7
BENZO(K)FLUORANTHENE	2.7	1.9	5.9	0.79	1.1	1.8	2.8	1.4	2.8	0.97	1.3
CHRYSENE	5.8	3.8	14	1.9	2.9	4.0	5.4	2.8	5.4	2.0	2.5
DIBENZ(A,H)ANTHRACENE	0.92	ND (0.21)	2	0.26	0.39	0.64	0.77	0.44	0.85	ND (0.37)	0.46
FLUORANTHENE	16	9.2	33	3.8	7.2	8.6	12.00	6.3	11.00	4.1	4.6
FLUORENE	2.7	0.83	4.7	0.81	2.0	1.6	0.96	0.47	0.99	ND (0.37)	ND (0.37)
INDENO(1,2,3-CD)PYRENE	3.1	2.3	6.0	0.86	1.2	2.2	2.7	1.6	3.0	1.3	1.7
2-METHYLNAPHTHALENE	0.80	0.22	1.3	0.19	ND (0.11)	1.0	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)
NAPHTHALENE	2.3	0.44	3.6	0.34	ND (0.11)	3.0	ND (0.37)	ND (0.37)	0.44	ND (0.37)	0.45
PHENANTHRENE	13	5.7	22	3.1	8.0	6.6	10.00	4.0	8.6	2.6	2.3
PYRENE	13	8.8	27	3.2	4.9	7.7	9.2	5.8	9.2	4.2	5.0
SM 2540G (% Wt)											
% Solids	92.5	92.0	86.9	88.3	87.4	90.8	92.5	91.2	91.9	92.3	90.7

* Final Confirmatory Soil Sample

Table 15.2
Summary of Confirmatory Soil Analytical Data:
RGP-10

Parameter	SAMPLING LOCATION										
	B15*	**B16***	**B17***	**B6**	**B7***	**B8**	**B9**	**S1***	**S2***	**S3***	**S4***
Sampling Date	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016
Sample Depth	3 Feet	3 Feet	3 Feet	5 Feet	5 Feet	4 Feet	4 Feet	4 Feet	3 Feet	3 Feet	3 Feet
MADEP-EPH-04-1.1 (mg/Kg dry)											
C9-C18 ALIPHATICS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
C19-C36 ALIPHATICS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
UNADJUSTED C11-C22 AROMATICS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
C11-C22 AROMATICS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
ACENAPHTHENE	ND (0.37)	ND (0.75)	ND (0.37)	0.73	ND (0.37)	1.6	1.1	0.54	0.47	0.51	ND (0.37)
ACENAPHTHYLENE	ND (0.37)	0.83	0.68	2.1	ND (0.37)	17.00	11.00	1.6	1.6	0.38	ND (0.37)
ANTHRACENE	0.62	1.7	1.4	3.3	ND (0.37)	20.00	16.00	3.0	2.0	1.5	0.46
BENZO(A)ANTHRACENE	1.9	4.4	4.0	NT	1.5	29.00	30.00	7.2	5.5	5.6	1.3
BENZO(A)PYRENE	1.7	4.0	3.7	7.8	1.3	22.00	23.00	6.3	4.9	5.4	1.3
BENZO(B)FLUORANTHENE	2.1	4.9	4.7	9.1	1.6	30.00	31.00	8.4	6.4	6.9	1.6
BENZO(G,H,I)PERYLENE	0.97	2.0	1.9	3.2	0.54	8.2	8.9	3.3	2.9	3.1	0.82
BENZO(K)FLUORANTHENE	0.79	1.8	1.7	3.9	0.64	11.00	13.00	3.3	2.3	2.6	0.7
CHRYSENE	1.7	3.9	3.7	7.8	1.3	24.00	26.00	6.3	4.5	5.3	1.1
DIBENZ(A,H)ANTHRACENE	ND (0.37)	ND (0.75) *	0.58	1.1	ND (0.37)	3.3	3.4	0.96	0.88	0.77	ND (0.37)
FLUORANTHENE	3.2	7.9	7.2	15.00	2.7	68.00	69.00	13.00	11.00	11.00	2.6
FLUORENE	ND (0.37)	ND (0.75)	0.73	1.7	ND (0.37)	24.00	16.00	2.1	1.5	0.45	ND (0.37)
INDENO(1,2,3-CD)PYRENE	1.0	2.2	2.1	3.6	0.61	9.6	11.00	3.3	3.0	3.0	0.8
2-METHYLNAPHTHALENE	ND (0.37)	ND (0.75) *	ND (0.37)	0.66	ND (0.37)	15.00	5.2	0.42	0.77	ND (0.37)	ND (0.37)
NAPHTHALENE	ND (0.37)	ND (0.75)	0.42	0.99	ND (0.37)	48.00	19.00	0.67	2.5	ND (0.37)	ND (0.37)
PHENANTHRENE	2.0	5.0	4.4	11.00	1.7	77.00	70.00	11.00	8.3	6.2	1.7
PYRENE	3.4	7.4	7.0	13.00	2.4	48.00	48.00	10.00	8.8	9.3	2.6
SM 2540G (% Wt)											
% Solids	91.3	91.1	91.3	91.6	91.4	91.8	91.9	92.00	91.8	93.00	91.7

* Final Confirmatory Soil Sample

Table 15.2
Summary of Confirmatory Soil Analytical Data:
RGP-10

Parameter	SAMPLING LOCATION									
	S5*	**W5**	**W6**	**B18***	**B19***	**B20***	**B21***	**B22***	**N1***	**W7***
Sampling Date	9/26/2016	9/26/2016	9/26/2016	9/29/2016	9/29/2016	9/29/2016	9/29/2016	9/29/2016	9/29/2016	9/29/2016
Sample Depth	3 Feet	4 Feet	4 Feet	6.5 Feet	6.5 Feet	8 Feet	7 Feet	7 Feet	4 Feet	7 Feet
MADEP-EPH-04-1.1 (mg/Kg dry)										
C9-C18 ALIPHATICS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
C19-C36 ALIPHATICS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
UNADJUSTED C11-C22 AROMATICS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
C11-C22 AROMATICS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
ACENAPHTHENE	ND (0.36)	2.3	ND (0.37)	ND (0.19)	ND (0.19)	0.22	ND (0.19)	ND (0.18)	0.55	0.27
ACENAPHTHYLENE	ND (0.36)	1.5	1.0	ND (0.19)	0.28	0.63	0.82	1.0	0.66	0.45
ANTHRACENE	0.62	5.8	1.4	ND (0.19)	0.47	1.8	0.72	1.6	2.0	1.1
BENZO(A)ANTHRACENE	1.1	10.00	3.5	0.44	0.94	3.1	2.5	4.0	5.5	3.8
BENZO(A)PYRENE	1.0	8.2	3.2	0.41	0.78	2.7	2.1	3.3	5.0	3.7
BENZO(B)FLUORANTHENE	1.3	10.00	4.0	0.50	0.95	3.2	2.9	4.1	6.1	4.2
BENZO(G,H,I)PERYLENE	0.63	3.6	1.4	0.19	0.39	1.5	0.93	1.8	3.0	1.9
BENZO(K)FLUORANTHENE	0.53	3.8	1.5	ND (0.19)	0.39	1.2	1.2	1.5	2.5	1.7
CHRYSENE	1.1	8.7	3.0	0.39	0.87	2.8	2.1	3.5	4.9	3.5
DIBENZ(A,H)ANTHRACENE	ND (0.36)	1.3	0.45	ND (0.19)	ND (0.19)	0.43	0.30	0.62	0.94	0.61
FLUORANTHENE	2.6	23.00	7.2	0.77	1.9	7.4	4.5	6.9	11	6.4
FLUORENE	0.42	2.8	1.4	ND (0.19)	0.42	1.1	0.40	0.97	0.99	0.44
INDENO(1,2,3-CD)PYRENE	0.68	4.2	1.6	0.22	0.45	1.7	1.1	2.0	3.4	0.40
2-METHYLNAPHTHALENE	ND (0.36)	ND (0.74) *	0.51	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.18)	0.20	ND (0.19)
NAPHTHALENE	ND (0.36)	0.89	1.0	ND (0.19)	0.30	0.55	ND (0.19)	0.27	0.38	0.25
PHENANTHRENE	1.8	24.00	6.0	0.38	1.8	6.4	2.8	5.0	7.1	3.8
PYRENE	2.5	21.00	6.1	0.65	1.5	5.3	3.8	5.5	8.9	5.3
SM 2540G (% Wt)										
% Solids	92.3	90.7	91.6	90.9	88.0	85.9	91.3	92.0	89.9	91.5

* Final Confirmatory Soil Sample

Table 15.3

Evaluation of Analytical Data and Determination of Method to Derive Exposure Point Concentration: RGP-10 Confirmatory Samples

Parameter	SAMPLING LOCATION										
	RGP-10-B3*	**RGP-10-B4***	**RGP-10-W2***	**B11***	**B12***	**B13***	**B14***	**B15***	**B16***	**B17***	**B7***
Sampling Date	6/23/2016	6/23/2016	6/23/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016
Sample Depth	6 Feet	9 Feet	3-6 Feet	3 Feet	3 Feet	3 Feet	3 Feet	3 Feet	3 Feet	3 Feet	5 Feet
MADEP-EPH-04-1.1 (mg/Kg dry)											
C9-C18 ALIPHATICS	ND (11)	ND (11)	ND (11)								
C19-C36 ALIPHATICS	14	ND (11)	25								
UNADJUSTED C11-C22 AROMATICS	75	110	150								
C11-C22 AROMATICS	52	68	99								
ACENAPHTHENE	ND (0.11)	0.31	0.62	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.75)	ND (0.37)	ND (0.37)
ACENAPHTHYLENE	0.55	1.1	1.1	0.61	1.1	ND (0.37)	0.54	ND (0.37)	0.83	0.68	ND (0.37)
ANTHRACENE	1.1	2.6	1.9	1.1	2.2	0.72	0.67	0.62	1.7	1.4	ND (0.37)
BENZO(A)ANTHRACENE	1.8	2.9	4	3.1	6.0	2.2	2.7	1.9	4.4	4.0	1.5
BENZO(A)PYRENE	1.5	2.3	3.7	2.8	5.1	2.1	2.7	1.7	4.0	3.7	1.3
BENZO(B)FLUORANTHENE	2.1	3	4.7	3.8	6.9	2.8	3.6	2.1	4.9	4.7	1.6
BENZO(G,H,I)PERYLENE	0.84	1.2	2	1.6	3.0	1.3	1.7	0.97	2.0	1.9	0.54
BENZO(K)FLUORANTHENE	0.79	1.1	1.8	1.4	2.8	0.97	1.3	0.79	1.8	1.7	0.64
CHRYSENE	1.9	2.9	4	2.8	5.4	2.0	2.5	1.7	3.9	3.7	1.3
DIBENZ(A,H)ANTHRACENE	0.26	0.39	0.64	0.44	0.85	ND (0.37)	0.46	ND (0.37)	ND (0.75) *	0.58	ND (0.37)
FLUORANTHENE	3.8	7.2	8.6	6.3	11.00	4.1	4.6	3.2	7.9	7.2	2.7
FLUORENE	0.81	2	1.6	0.47	0.99	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.75)	0.73	ND (0.37)
INDENO(1,2,3-CD)PYRENE	0.86	1.2	2.2	1.6	3.0	1.3	1.7	1.0	2.2	2.1	0.61
2-METHYLNAPHTHALENE	0.19	ND (0.11)	1	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.37)	ND (0.75) *	ND (0.37)	ND (0.37)
NAPHTHALENE	0.34.34	ND (0.11)	3	ND (0.37)	0.44	ND (0.37)	0.45	ND (0.37)	ND (0.75)	0.42	ND (0.37)
PHENANTHRENE	3.1	8	6.6	4.0	8.6	2.6	2.3	2.0	5.0	4.4	1.7
PYRENE	3.2	4.9	7.7	5.8	9.2	4.2	5.0	3.4	7.4	7.0	2.4
SM 2540G (% Wt)											
% Solids	88.3	87.4	90.8	91.2	91.9	92.3	90.7	91.3	91.1	91.3	91.4

* Final Confirmatory Sample

Table 15.3

Evaluation of Analytical Data and Determination of Method to Derive Exposure Point Concentration: RGP-10 Confirmatory Samples

Parameter		SAMPLING LOCATION									
	S1*	S2*	S3*	S4*	S5*	B18*	B19*	B20*	B21*	B22*	N1*
Sampling Date	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/29/2016	9/29/2016	9/29/2016	9/29/2016	9/29/2016	9/29/2016
Sample Depth	4 Feet	3 Feet	3 Feet	3 Feet	3 Feet	6.5 Feet	6.5 Feet	8 Feet	7 Feet	7 Feet	4 Feet
MADEP-EPH-04-1.1 (mg/Kg dry)											
C9-C18 ALIPHATICS											
C19-C36 ALIPHATICS											
UNADJUSTED C11-C22 AROMATICS											
C11-C22 AROMATICS											
ACENAPHTHENE	0.54	0.47	0.51	ND (0.37)	ND (0.36)	ND (0.19)	ND (0.19)	0.22	ND (0.19)	ND (0.18)	0.55
ACENAPHTHYLENE	1.6	1.6	0.38	ND (0.37)	ND (0.36)	ND (0.19)	0.28	0.63	0.82	1	0.66
ANTHRACENE	3.0	2.0	1.5	0.46	0.62	ND (0.19)	0.47	1.8	0.72	1.6	2
BENZO(A)ANTHRACENE	7.2	5.5	5.6	1.3	1.1	0.44	0.94	3.1	2.5	4	5.5
BENZO(A)PYRENE	6.3	4.9	5.4	1.3	1.0	0.41	0.78	2.7	2.1	3.3	5
BENZO(B)FLUORANTHENE	8.4	6.4	6.9	1.6	1.3	0.5	0.95	3.2	2.9	4.1	6.1
BENZO(G,H,I)PERYLENE	3.3	2.9	3.1	0.82	0.63	0.19	0.39	1.5	0.93	1.8	3
BENZO(K)FLUORANTHENE	3.3	2.3	2.6	0.7	0.53	ND (0.19)	0.39	1.2	1.2	1.5	2.5
CHRYSENE	6.3	4.5	5.3	1.1	1.1	0.39	0.87	2.8	2.1	3.5	4.9
DIBENZ(A,H)ANTHRACENE	0.96	0.88	0.77	ND (0.37)	ND (0.36)	ND (0.19)	ND (0.19)	0.43	0.3	0.62	0.94
FLUORANTHENE	13.00	11.00	11.00	2.6	2.6	0.77	1.9	7.4	4.5	6.9	11
FLUORENE	2.1	1.5	0.45	ND (0.37)	0.42	ND (0.19)	0.42	1.1	0.4	0.97	0.99
INDENO(1,2,3-CD)PYRENE	3.3	3.0	3.0	0.8	0.68	0.22	0.45	1.7	1.1	2	3.4
2-METHYLNAPHTHALENE	0.42	0.77	ND (0.37)	ND (0.37)	ND (0.36)	ND (0.19)	ND (0.19)	ND (0.20)	ND (0.19)	ND (0.18)	0.2
NAPHTHALENE	0.67	2.5	ND (0.37)	ND (0.37)	ND (0.36)	ND (0.19)	0.3	0.55	ND (0.19)	0.27	0.38
PHENANTHRENE	11.00	8.3	6.2	1.7	1.8	0.38	1.8	6.4	2.8	5	7.1
PYRENE	10.00	8.8	9.3	2.6	2.5	0.65	1.5	5.3	3.8	5.5	8.9
SM 2540G (% Wt)											
% Solids	92.00	91.8	93.00	91.7	92.3	90.9	88.0	85.9	91.3	92.0	89.9

* Final Confirmatory Sample

Table 15.3
Evaluation of Analytical Data and Determination of Method to Derive Exposure Point Concentration: RGP-10 Confirmatory Samples

Parameter		Summary Statistics			Data Evaluation and Determination of Method to Derive Exposure Point Concentration					
	W7*	Number Analyzed	Number Detected	Maximum Concentration	Contaminant of Concern	Method 2 S-1 Direct Contact Standard	Number > Method 2 S-1	Percent > Method 2 S-1	Any Data 10X > Method 2 S-1	Method to Derive EPC
Sampling Date	9/29/2016									
Sample Depth	7 Feet									
MADEP-EPH-04-1.1 (mg/Kg dry)										
C9-C18 ALIPHATICS		3	0		No	1000				
C19-C36 ALIPHATICS		3	2	25	Yes	3000	0	0	No	Mean
UNADJUSTED C11-C22 AROMATICS										
C11-C22 AROMATICS		3	3	99	Yes	1000	0	0	No	Mean
ACENAPHTHENE	0.27	23	8	0.62	Yes	1000	0	0	No	Mean
ACENAPHTHYLENE	0.45	23	17	1.6	Yes	1000	0	0	No	Mean
ANTHRACENE	1.1	23	21	3	Yes	1000	0	0	No	Mean
BENZO(A)ANTHRACENE	3.8	23	23	7.2	Yes	7	1	4.3	No	Mean
BENZO(A)PYRENE	3.7	23	23	6.3	Yes	2	16	70	No	95%UCL
BENZO(B)FLUORANTHENE	4.2	23	23	8.4	Yes	7	1	4.3	No	Mean
BENZO(G,H,I)PERYLENE	1.9	23	23	3.3	Yes	1000	0	0	No	Mean
BENZO(K)FLUORANTHENE	1.7	23	22	3.3	Yes	70	0	0	No	Mean
CHRYSENE	3.5	23	23	6.3	Yes	70	0	0	No	Mean
DIBENZ(A,H)ANTHRACENE	0.61	23	15	0.96	Yes	0.7	4	17.4	No	Mean
FLUORANTHENE	6.4	23	23	13	Yes	1000	0	0	No	Mean
FLUORENE	0.44	23	16	2.1	Yes	1000	0	0	No	Mean
INDENO(1,2,3-CD)PYRENE	0.4	23	23	3.4	Yes	7	0	0	No	Mean
2-METHYLNAPHTHALENE	ND (0.19)	23	5	1	Yes	300	0	0	No	Mean
NAPHTHALENE	0.25	23	11	3	Yes	500	0	0	No	Mean
PHENANTHRENE	3.8	23	23	11	Yes	500	0	0	No	Mean
PYRENE	5.3	23	23	10	Yes	1000	0	0	No	Mean
SM 2540G (% Wt)										
% Solids	91.5									

* Final Confirmatory Sample

95%UCL = 95th percentile upper confidence limit on the mean

Table 15.4
Derivation of Exposure Point Concentration: RGP-10 Confirmatory Samples

Parameter	SAMPLING LOCATION										
	RGP-10-B3*	RGP-10-B4*	RGP-10-W2*	B11*	B12*	B13*	B14*	B15*	B16*	B17*	B7*
Sampling Date	6/23/2016	6/23/2016	6/23/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016
Sample Depth	6 Feet	9 Feet	3-6 Feet	3 Feet	3 Feet	3 Feet	3 Feet	3 Feet	3 Feet	3 Feet	5 Feet
MADEP-EPH-04-1.1 (mg/Kg dry)											
C9-C18 ALIPHATICS	ND (11)	ND (11)	ND (11)								
C19-C36 ALIPHATICS	14	5.5	25								
UNADJUSTED C11-C22 AROMATICS	75	110	150								
C11-C22 AROMATICS	52	68	99								
ACENAPHTHENE	0.055	0.31	0.62	0.185	0.185	0.185	0.185	0.185	0.375	0.185	0.185
ACENAPHTHYLENE	0.55	1.1	1.1	0.61	1.1	0.185	0.54	0.185	0.83	0.68	0.185
ANTHRACENE	1.1	2.6	1.9	1.1	2.2	0.72	0.67	0.62	1.7	1.4	0.185
BENZO(A)ANTHRACENE	1.8	2.9	4	3.1	6.0	2.2	2.7	1.9	4.4	4.0	1.5
BENZO(A)PYRENE	1.5	2.3	3.7	2.8	5.1	2.1	2.7	1.7	4.0	3.7	1.3
BENZO(B)FLUORANTHENE	2.1	3	4.7	3.8	6.9	2.8	3.6	2.1	4.9	4.7	1.6
BENZO(G,H,I)PERYLENE	0.84	1.2	2	1.6	3.0	1.3	1.7	0.97	2.0	1.9	0.54
BENZO(K)FLUORANTHENE	0.79	1.1	1.8	1.4	2.8	0.97	1.3	0.79	1.8	1.7	0.64
CHRYSENE	1.9	2.9	4	2.8	5.4	2.0	2.5	1.7	3.9	3.7	1.3
DIBENZ(A,H)ANTHRACENE	0.26	0.39	0.64	0.44	0.85	0.185	0.46	0.185	0.375	0.58	0.185
FLUORANTHENE	3.8	7.2	8.6	6.3	11.00	4.1	4.6	3.2	7.9	7.2	2.7
FLUORENE	0.81	2	1.6	0.47	0.99	0.185	0.185	0.185	0.375	0.73	0.185
INDENO(1,2,3-CD)PYRENE	0.86	1.2	2.2	1.6	3.0	1.3	1.7	1.0	2.2	2.1	0.61
2-METHYLNAPHTHALENE	0.19	0.055	1	0.185	0.185	0.185	0.185	0.185	0.375	0.185	0.185
NAPHTHALENE	0.34.34	0.055	3	0.185	0.44	0.185	0.45	0.185	0.375	0.42	0.185
PHENANTHRENE	3.1	8	6.6	4.0	8.6	2.6	2.3	2.0	5.0	4.4	1.7
PYRENE	3.2	4.9	7.7	5.8	9.2	4.2	5.0	3.4	7.4	7.0	2.4
SM 2540G (% Wt)											
% Solids	88.3	87.4	90.8	91.2	91.9	92.3	90.7	91.3	91.1	91.3	91.4

* Final Confirmatory Sample

Table 15.4
Derivation of Exposure Point Concentration: RGP-10 Confirmatory Samples

Parameter	SAMPLING LOCATION											
	S1*	S2*	S3*	S4*	S5*	B18*	B19*	B20*	B21*	B22*	N1*	W7*
Sampling Date	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/26/2016	9/29/2016	9/29/2016	9/29/2016	9/29/2016	9/29/2016	9/29/2016	9/29/2016
Sample Depth	4 Feet	3 Feet	3 Feet	3 Feet	3 Feet	6.5 Feet	6.5 Feet	8 Feet	7 Feet	7 Feet	4 Feet	7 Feet
MADEP-EPH-04-1.1 (mg/Kg dry)												
C9-C18 ALIPHATICS												
C19-C36 ALIPHATICS												
UNADJUSTED C11-C22 AROMATICS												
C11-C22 AROMATICS												
ACENAPHTHENE	0.54	0.47	0.51	0.185	0.18	0.095	0.095	0.22	0.095	0.09	0.55	0.27
ACENAPHTHYLENE	1.6	1.6	0.38	0.185	0.18	0.095	0.28	0.63	0.82	1	0.66	0.45
ANTHRACENE	3.0	2.0	1.5	0.46	0.62	0.095	0.47	1.8	0.72	1.6	2	1.1
BENZO(A)ANTHRACENE	7.2	5.5	5.6	1.3	1.1	0.44	0.94	3.1	2.5	4	5.5	3.8
BENZO(A)PYRENE	6.3	4.9	5.4	1.3	1.0	0.41	0.78	2.7	2.1	3.3	5	3.7
BENZO(B)FLUORANTHENE	8.4	6.4	6.9	1.6	1.3	0.5	0.95	3.2	2.9	4.1	6.1	4.2
BENZO(G,H,I)PERYLENE	3.3	2.9	3.1	0.82	0.63	0.19	0.39	1.5	0.93	1.8	3	1.9
BENZO(K)FLUORANTHENE	3.3	2.3	2.6	0.7	0.53	0.095	0.39	1.2	1.2	1.5	2.5	1.7
CHRYSENE	6.3	4.5	5.3	1.1	1.1	0.39	0.87	2.8	2.1	3.5	4.9	3.5
DIBENZ(A,H)ANTHRACENE	0.96	0.88	0.77	0.185	0.18	0.095	0.095	0.43	0.3	0.62	0.94	0.61
FLUORANTHENE	13.00	11.00	11.00	2.6	2.6	0.77	1.9	7.4	4.5	6.9	11	6.4
FLUORENE	2.1	1.5	0.45	0.185	0.42	0.095	0.42	1.1	0.4	0.97	0.99	0.44
INDENO(1,2,3-CD)PYRENE	3.3	3.0	3.0	0.8	0.68	0.22	0.45	1.7	1.1	2	3.4	0.4
2-METHYLNAPHTHALENE	0.42	0.77	0.185	0.185	0.18	0.095	0.095	0.1	0.095	0.09	0.2	0.095
NAPHTHALENE	0.67	2.5	0.185	0.185	0.18	0.095	0.3	0.55	0.095	0.27	0.38	0.25
PHENANTHRENE	11.00	8.3	6.2	1.7	1.8	0.38	1.8	6.4	2.8	5	7.1	3.8
PYRENE	10.00	8.8	9.3	2.6	2.5	0.65	1.5	5.3	3.8	5.5	8.9	5.3
SM 2540G (% Wt)												
% Solids	92.00	91.8	93.00	91.7	92.3	90.9	88.0	85.9	91.3	92.0	89.9	91.5

* Final Confirmatory Sample

Table 15.4
Derivation of Exposure Point Concentration: RGP-10 Confirmatory Samples

Parameter	Derivation of Exposure Point Concentrations					
Sampling Date Sample Depth	Number Analyzed	Mean Concentration	Standard Deviation of Population	Confidence Interval 95%	95th % Upper Confidence Limit on the Mean	Exposure Point Concentration
MADEP-EPH-04-1.1 (mg/Kg dry)						
C9-C18 ALIPHATICS						
C19-C36 ALIPHATICS	3	14.83333333				15
UNADJUSTED C11-C22 AROMATICS						
C11-C22 AROMATICS	3	73				73
ACENAPHTHENE	23	0.258913043				0.26
ACENAPHTHYLENE	23	0.649782609				0.65
ANTHRACENE	23	1.285217391				1.3
BENZO(A)ANTHRACENE	23	3.28173913				3.3
BENZO(A)PYRENE	23	2.947391304	1.599630983	0.691732309	3.639123614	3.6
BENZO(B)FLUORANTHENE	23	3.77173913				3.8
BENZO(G,H,I)PERYLENE	23	1.630869565				1.6
BENZO(K)FLUORANTHENE	23	1.439347826				1.4
CHRYSENE	23	2.976521739				3.0
DIBENZ(A,H)ANTHRACENE	23	0.461521739				0.46
FLUORANTHENE	23	6.333478261				6.3
FLUORENE	23	0.729782609				0.73
INDENO(1,2,3-CD)PYRENE	23	1.644347826				1.6
2-METHYLNAPHTHALENE	23	0.235869565				0.24
NAPHTHALENE	23	0.506363636				0.51
PHENANTHRENE	23	4.546956522				4.5
PYRENE	23	5.406521739				5.4
SM 2540G (% Wt)						
% Solids						

* Final Confirmatory Sample 95%UCL = 95th percentile upper confidence limit on the mean

Table 16.1
Summary of Soil Analytical Data: RGP-11

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION	
	S-1/GW-1	S-1/GW-2	S-1/GW-3	RGP-11	RGP-11-2
Sampling Date				4/19/2016	5/18/2016
Sample Depth				Representative	Representative
MADEP-EPH-04-1.1 (mg/Kg dry)					
C9-C18 ALIPHATICS	1000	1000	1000	27	19
C19-C36 ALIPHATICS	3000	3000	3000	350	110
UNADJUSTED C11-C22 AROMATICS	~	~	~	250	190
C11-C22 AROMATICS	1000	1000	1000	200	140
ACENAPHTHENE	4	1000	1000	0.59	0.64
ACENAPHTHYLENE	1	600	10	0.25	0.25
ANTHRACENE	1000	1000	1000	1.7	1.5
BENZO(A)ANTHRACENE	7	7	7	3.1	3.3
BENZO(A)PYRENE	2	2	2	**3.0**	**3.1**
BENZO(B)FLUORANTHENE	7	7	7	4.1	3.9
BENZO(G,H,I)PERYLENE	1000	1000	1000	1.4	1.4
BENZO(K)FLUORANTHENE	70	70	70	1.4	1.5
CHRYSENE	70	70	70	3.6	4.2
DIBENZ(A,H)ANTHRACENE	0.7	0.7	0.7	0.46	0.53
FLUORANTHENE	1000	1000	1000	8.6	8.8
FLUORENE	1000	1000	1000	1.9	1.8
INDENO(1,2,3-CD)PYRENE	7	7	7	1.7	1.8
2-METHYLNAPHTHALENE	0.7	80	300	**1.0**	**0.87**
NAPHTHALENE	4	20	500	2.0	1.7
PHENANTHRENE	10	500	500	9.7	9.1
PYRENE	1000	1000	1000	8.2	8.3
MADEP-VPH-04-1.1 (mg/Kg dry)					
UNADJUSTED C5-C8 ALIPHATICS	~	~	~	ND (21)	ND (9.9)
C5-C8 ALIPHATICS	100	100	100	ND (21)	ND (9.9)
UNADJUSTED C9-C12 ALIPHATICS	~	~	~	ND (21)	ND (9.9)
C9-C12 ALIPHATICS	1000	1000	1000	ND (21)	ND (9.9)
C9-C10 AROMATICS	100	100	100	ND (21)	ND (9.9)
BENZENE	2	40	40	ND (0.10)	ND (0.050)
ETHYLBENZENE	40	500	500	ND (0.10)	ND (0.050)
METHYL TERT-BUTYL ETHER (MTBE)	0.1	100	100	ND (0.10)	ND (0.050)
NAPHTHALENE	4	20	500	1.2	ND (0.25)
TOLUENE	30	500	500	ND (0.10)	ND (0.050)
M/P-XYLENE	400	100	500	ND (0.21)	ND (0.099)
O-XYLENE	400	100	500	ND (0.10)	ND (0.050)
SM 2540G (% Wt)					
% Solids	~	~	~	85.1	86.4
SW-846 6010C-D (mg/Kg dry) Metals Digestion					
ANTIMONY	20	20	20	ND (2.8)	ND (3.0)
ARSENIC	20	20	20	ND (2.8)	ND (3.0)
BARIUM	1000	1000	1000	120	100
BERYLLIUM	90	90	90	ND (0.28)	ND (0.30)
CADMIUM	70	70	70	0.31	ND (0.30)
CHROMIUM	100	100	100	20	36
LEAD	200	200	200	57	27
NICKEL	600	600	600	15	23
SELENIUM	400	400	400	ND (5.7)	ND (6.0)
SILVER	100	100	100	ND (0.57)	ND (0.60)
THALLIUM	8	8	8	ND (2.8)	ND (3.0)
VANADIUM	400	400	400	30	53
ZINC	1000	1000	1000	100	74
SW-846 7471B (mg/Kg dry) Metals Digestion					
MERCURY	20	20	20	0.029	0.029
SW-846 8082A (mg/Kg dry)					
PCB 1016	1	1	1	ND (0.12)	ND (0.12)
PCB 1221	1	1	1	ND (0.12)	ND (0.12)
PCB 1232	1	1	1	ND (0.12)	ND (0.12)
PCB 1242	1	1	1	ND (0.12)	ND (0.12)
PCB 1248	1	1	1	ND (0.12)	ND (0.12)
PCB 1254	1	1	1	ND (0.12)	ND (0.12)
PCB 1260	1	1	1	ND (0.12)	ND (0.12)
PCB 1262	1	1	1	ND (0.12)	ND (0.12)
PCB 1268	1	1	1	ND (0.12)	ND (0.12)
SW-846 8260C (mg/Kg dry)					
ACETONE	6	50	400	ND (0.097)	ND (0.081)
TERT-AMYLMETHYL ETHER	~	~	~	ND (0.00097)	ND (0.00081)
BENZENE	2	40	40	ND (0.0019)	ND (0.0016)
BROMOBENZENE	~	~	~	ND (0.0019)	ND (0.0016)
BROMOCHLOROMETHANE	~	~	~	ND (0.0019)	ND (0.0016)
BROMODICHLOROMETHANE	0.1	0.1	30	ND (0.0019)	ND (0.0016)
BROMOFORM	0.1	1	300	ND (0.0019)	ND (0.0016)
BROMOMETHANE	0.5	0.5	30	ND (0.0097)	ND (0.0081)
2-BUTANONE (MEK)	4	50	400	ND (0.039)	ND (0.032)
N-BUTYLBENZENE	~	~	~	ND (0.0019)	ND (0.0016)
SEC-BUTYLBENZENE	~	~	~	ND (0.0019)	ND (0.0016)
TERT-BUTYLBENZENE	~	~	~	ND (0.0019)	ND (0.0016)
TERT-BUTYLETHYL ETHER	~	~	~	ND (0.00097)	ND (0.00081)
CARBON DISULFIDE	~	~	~	ND (0.0058)	ND (0.0049)
CARBON TETRACHLORIDE	10	5	30	ND (0.0019)	ND (0.0016)
CHLOROBENZENE	1	3	100	ND (0.0019)	ND (0.0016)

Table 16.1
Summary of Soil Analytical Data: RGP-11

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION	
	S-1/GW-1	S-1/GW-2	S-1/GW-3	RGP-11	RGP-11-2
Sampling Date				4/19/2016	5/18/2016
Sample Depth				Representative	Representative
CHLORODIBROMOMETHANE	0.005	0.03	20	ND (0.00097)	ND (0.00081)
CHLOROETHANE	~	~	~	ND (0.0097)	ND (0.0081)
CHLOROFORM	0.4	0.2	500	ND (0.0039)	ND (0.0032)
CHLOROMETHANE	~	~	~	ND (0.0097)	ND (0.0081)
2-CHLOROTOLUENE	~	~	~	ND (0.0019)	ND (0.0016)
4-CHLOROTOLUENE	~	~	~	ND (0.0019)	ND (0.0016)
1,2-DIBROMO-3-CHLOROPROPANE	~	~	~	ND (0.0039)	ND (0.0032)
1,2-DIBROMOETHANE (EDB)	0.1	0.1	1	ND (0.00097)	ND (0.00081)
DIBROMOMETHANE	~	~	~	ND (0.0019)	ND (0.0016)
1,2-DICHLOROBENZENE	9	100	300	ND (0.0019)	ND (0.0016)
1,3-DICHLOROBENZENE	3	100	100	ND (0.0019)	ND (0.0016)
1,4-DICHLOROBENZENE	0.7	1	80	ND (0.0019)	ND (0.0016)
DICHLORODIFLUOROMETHANE	~	~	~	ND (0.0097)	ND (0.0081)
1,1-DICHLOROETHANE	0.4	9	500	ND (0.0019)	ND (0.0016)
1,2-DICHLOROETHANE	0.1	0.1	20	ND (0.0019)	ND (0.0016)
1,1-DICHLOROETHYLENE	3	40	500	ND (0.0039)	ND (0.0032)
CIS-1,2-DICHLOROETHYLENE	0.3	0.1	100	ND (0.0019)	ND (0.0016)
TRANS-1,2-DICHLOROETHYLENE	1	1	500	ND (0.0019)	ND (0.0016)
1,2-DICHLOROPROPANE	0.1	0.1	30	ND (0.0019)	ND (0.0016)
1,3-DICHLOROPROPANE	~	~	~	ND (0.00097)	ND (0.00081)
2,2-DICHLOROPROPANE	~	~	~	ND (0.0019)	ND (0.0016)
1,1-DICHLOROPROPENE	~	~	~	ND (0.0019)	ND (0.0016)
CIS-1,3-DICHLOROPROPENE	0.01	0.4	9	ND (0.00097)	ND (0.00081)
TRANS-1,3-DICHLOROPROPENE	0.01	0.4	9	ND (0.00097)	ND (0.00081)
DIETHYL ETHER	~	~	~	ND (0.0097)	ND (0.0081)
DIISOPROPYL ETHER	~	~	~	ND (0.00097)	ND (0.00081)
1,4-DIOXANE	0.2	6	20	ND (0.19)	ND (0.16)
ETHYLBENZENE	40	500	500	ND (0.0019)	ND (0.0016)
HEXACHLOROBUTADIENE	30	30	30	ND (0.0019)	ND (0.0016)
2-HEXANONE	~	~	~	ND (0.019)	ND (0.016)
ISOPROPYLBENZENE	~	~	~	ND (0.0019)	ND (0.0016)
P-ISOPROPYLTOLUENE	~	~	~	ND (0.0019)	ND (0.0016)
METHYL TERT-BUTYL ETHER (MTBE)	0.1	100	100	ND (0.0039)	ND (0.0032)
METHYLENE CHLORIDE	0.1	20	200	ND (0.0097)	ND (0.0081)
4-METHYL-2-PENTANONE (MIBK)	0.4	50	400	ND (0.019)	ND (0.016)
NAPHTHALENE	4	20	500	0.071	ND (0.0032)
N-PROPYLBENZENE	~	~	~	ND (0.0019)	ND (0.0016)
STYRENE	3	4	70	ND (0.0019)	ND (0.0016)
1,1,1,2-TETRACHLOROETHANE	0.1	0.1	80	ND (0.0019)	ND (0.0016)
1,1,2,2-TETRACHLOROETHANE	0.005	0.02	10	ND (0.00097)	ND (0.00081)
TETRACHLOROETHYLENE	1	10	30	ND (0.0019)	ND (0.0016)
TETRAHYDROFURAN	~	~	~	ND (0.019)	ND (0.016)
TOLUENE	30	500	500	ND (0.0019)	ND (0.0016)
1,2,3-TRICHLOROBENZENE	~	~	~	ND (0.0019)	ND (0.0016)
1,2,4-TRICHLOROBENZENE	2	6	700	ND (0.0019)	ND (0.0016)
1,1,1-TRICHLOROETHANE	30	500	500	ND (0.0019)	ND (0.0016)
1,1,2-TRICHLOROETHANE	0.1	2	40	ND (0.0019)	ND (0.0016)
TRICHLOROETHYLENE	0.3	0.3	30	ND (0.0019)	ND (0.0016)
TRICHLOROFLUOROMETHANE	~	~	~	ND (0.0097)	ND (0.0081)
1,2,3-TRICHLOROPROPANE	~	~	~	ND (0.0019)	ND (0.0016)
1,2,4-TRIMETHYLBENZENE	~	~	~	ND (0.0019)	ND (0.0016)
1,3,5-TRIMETHYLBENZENE	~	~	~	ND (0.0019)	ND (0.0016)
VINYL CHLORIDE	0.9	0.7	1	ND (0.0097)	ND (0.0081)
M/P-XYLENE	400	100	500	ND (0.0039)	ND (0.0032)
O-XYLENE	400	100	500	ND (0.0019)	ND (0.0016)
SW-846 8270D (mg/Kg dry)					
ACENAPHTHENE	4	1000	1000	0.55	ND (0.20)
ACENAPHTHYLENE	1	600	10	0.55	0.28
ACETOPHENONE	~	~	~	ND (0.40)	ND (0.39)
ANILINE	~	~	~	ND (0.40)	ND (0.39)
ANTHRACENE	1000	1000	1000	1.8	0.23
BENZO(A)ANTHRACENE	7	7	7	4.1	0.77
BENZO(A)PYRENE	2	2	2	**3.8**	0.89
BENZO(B)FLUORANTHENE	7	7	7	4.7	0.85
BENZO(G,H,I)PERYLENE	1000	1000	1000	3.1	0.50
BENZO(K)FLUORANTHENE	70	70	70	1.8	0.30
BIS(2-CHLOROETHOXY)METHANE	~	~	~	ND (0.40)	ND (0.39)
BIS(2-CHLOROETHYL)ETHER	0.7	0.7	8	ND (0.40)	ND (0.39)
BIS(2-CHLOROISOPROPYL)ETHER	0.7	0.7	30	ND (0.40)	ND (0.39)
BIS(2-ETHYLHEXYL)PHTHALATE	90	90	90	ND (0.40)	ND (0.39)
4-BROMOPHENYL PHENYL ETHER	~	~	~	ND (0.40)	ND (0.39)
BUTYLBENZYLPHTHALATE	~	~	~	ND (0.40)	ND (0.39)
4-CHLOROANILINE	1	100	3	ND (0.78)	ND (0.76)
2-CHLORONAPHTHALENE	~	~	~	ND (0.40)	ND (0.39)
2-CHLOROPHENOL	0.7	100	100	ND (0.40)	ND (0.39)
CHRYSENE	70	70	70	4.2	0.80
DIBENZ(A,H)ANTHRACENE	0.7	0.7	0.7	**0.76**	ND (0.20)
DIBENZOFURAN	~	~	~	1.6	ND (0.39)
DI-N-BUTYLPHTHALATE	~	~	~	ND (0.40)	ND (0.39)
1,2-DICHLOROBENZENE	9	100	300	ND (0.40)	ND (0.39)

Table 16.1
Summary of Soil Analytical Data: RGP-11

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION	
	S-1/GW-1	S-1/GW-2	S-1/GW-3	RGP-11	RGP-11-2
Sampling Date				4/19/2016	5/18/2016
Sample Depth				Representative	Representative
1,3-DICHLOROBENZENE	3	100	100	ND (0.40)	ND (0.39)
1,4-DICHLOROBENZENE	0.7	1	80	ND (0.40)	ND (0.39)
3,3'-DICHLOROBENZIDINE	3	3	3	ND (0.20)	ND (0.20)
2,4-DICHLOROPHENOL	0.7	60	40	ND (0.40)	ND (0.39)
DIETHYLPHTHALATE	10	200	300	ND (0.40)	ND (0.39)
2,4-DIMETHYLPHENOL	0.7	100	500	ND (0.40)	ND (0.39)
DIMETHYLPHTHALATE	0.7	50	600	ND (0.40)	ND (0.39)
2,4-DINITROPHENOL	3	50	50	ND (0.78)	ND (0.76)
2,4-DINITROTOLUENE	0.7	2	2	ND (0.40)	ND (0.39)
2,6-DINITROTOLUENE	~	~	~	ND (0.40)	ND (0.39)
DI-N-OCTYLPHTHALATE	~	~	~	ND (0.40)	ND (0.39)
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	~	~	~	ND (0.40)	ND (0.39)
FLUORANTHENE	1000	1000	1000	12	1.2
FLUORENE	1000	1000	1000	2.0	ND (0.20)
HEXACHLOROBENZENE	0.7	0.7	0.7	ND (0.40)	ND (0.39)
HEXACHLOROBUTADIENE	30	30	30	ND (0.40)	ND (0.39)
HEXACHLOROETHANE	0.7	3	50	ND (0.40)	ND (0.39)
INDENO(1,2,3-CD)PYRENE	7	7	7	2.9	0.43
ISOPHORONE	~	~	~	ND (0.40)	ND (0.39)
2-METHYLNAPHTHALENE	0.7	80	300	**1.3**	ND (0.20)
O-CRESOL	~	~	~	ND (0.40)	ND (0.39)
M/P-CRESOL	~	~	~	ND (0.40)	ND (0.39)
NAPHTHALENE	4	20	500	2.8	ND (0.20)
NITROBENZENE	~	~	~	ND (0.40)	ND (0.39)
2-NITROPHENOL	~	~	~	ND (0.40)	ND (0.39)
4-NITROPHENOL	~	~	~	ND (0.78)	ND (0.76)
PENTACHLOROPHENOL	3	3	3	ND (0.40)	ND (0.39)
PHENANTHRENE	10	500	500	**11**	1.2
PHENOL	1	50	20	ND (0.40)	ND (0.39)
PYRENE	1000	1000	1000	8.4	1.8
1,2,4-TRICHLOROBENZENE	2	6	700	ND (0.40)	ND (0.39)
2,4,5-TRICHLOROPHENOL	4	1000	600	ND (0.40)	ND (0.39)
2,4,6-TRICHLOROPHENOL	0.7	20	20	ND (0.40)	ND (0.39)

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. ~ = No Method 1 Standard

Table 16.2
Derivation of Soil Exposure Point Concentrations: RGP-11

Parameter	MassDEP Background Concentrations		MCP - Method 1 Cleanup Standards			SAMPLING LOCATION					
			S-1/GW-1	S-1/GW-2	S-1/GW-3	RGP-11	RGP-11	RGP-11	RGP-11	RGP-11-2	RGP-11-2
Sampling Date	Natural	Soils assoc.				4/19/2016	4/19/2016	4/19/2016	4/19/2016	5/18/2016	5/18/2016
Sample Depth	Soils	with Fill				Representative	Representative	Representative	Representative	Representative	Representative
Analytical Method						EPH-04-1.1	USEPA 8270D	VPH-04-1.1	USEPA 8260C	EPH-04-1.1	USEPA 8270D
C9-C18 ALIPHATICS			1000	1000	1000	27				19	
C19-C36 ALIPHATICS			3000	3000	3000	350				110	
C11-C22 AROMATICS			1000	1000	1000	200				140	
ACENAPHTHENE	0.5	2	4	1000	1000	0.59	0.55			0.64	ND (0.20)
ACENAPHTHYLENE	0.5	1	1	600	10	0.25	0.55			0.25	0.28
ANTHRACENE	1	4	1000	1000	1000	1.7	1.8			1.5	0.23
BENZO(A)ANTHRACENE	2	9	7	7	7	3.1	4.1			3.3	0.77
BENZO(A)PYRENE	2	7	2	2	2	3.0	3.8			3.1	0.89
BENZO(B)FLUORANTHENE	2	8	7	7	7	4.1	4.7			3.9	0.85
BENZO(G,H,I)PERYLENE	1	3	1000	1000	1000	1.4	3.1			1.4	0.50
BENZO(K)FLUORANTHENE	1	4	70	70	70	1.4	1.8			1.5	0.30
CHRYSENE	2	7	70	70	70	3.6	4.2			4.2	0.80
DIBENZ(A,H)ANTHRACENE	0.5	1	0.7	0.7	0.7	0.46	0.76			0.53	ND (0.20)
DIBENZOFURAN			~	~	~		1.6				ND (0.39)
FLUORANTHENE	4	10	1000	1000	1000	8.6	12			8.8	1.2
FLUORENE	1	2	1000	1000	1000	1.9	2.0			1.8	ND (0.20)
INDENO(1,2,3-CD)PYRENE	1	3	7	7	7	1.7	2.9			1.8	0.43
2-METHYLNAPHTHALENE	0.5	1	0.7	80	300	1.0	1.3			0.87	ND (0.20)
NAPHTHALENE	0.5	1	4	20	500	2.0	2.8	1.2	0.071	1.7	ND (0.20)
PHENANTHRENE	3	20	10	500	500	9.7	11			9.1	1.2
PYRENE	4	20	1000	1000	1000	8.2	8.4			8.3	1.8
Analytical Method						USEPA 6010C-D				USEPA 6010C-D	
ANTIMONY			20	20	20	ND (2.8)				ND (3.0)	
ARSENIC			20	20	20	ND (2.8)				ND (3.0)	
BARIUM	50	50	1000	1000	1000	120				100	
BERYLLIUM			90	90	90	ND (0.28)				ND (0.30)	
CADMIUM	2	3	70	70	70	0.31				ND (0.30)	
CHROMIUM	30	40	100	100	100	20				36	
LEAD	100	600	200	200	200	57				27	
NICKEL	20	30	600	600	600	15				23	
SELENIUM			400	400	400	ND (5.7)				ND (6.0)	
SILVER			100	100	100	ND (0.57)				ND (0.60)	
THALLIUM			8	8	8	ND (2.8)				ND (3.0)	
VANADIUM	30	30	400	400	400	30				53	
ZINC	100	300	1000	1000	1000	100				74	
Analytical Method						7471B				7471B	
MERCURY	0.3	1	20	20	20	0.029				0.029	

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. ~ = No Method 1 Standard
3. Not a separate Contaminant of Concern, because it is a constituent of C11-C22 aromatic hydrocarbons

Table 16.2
Derivation of Soil Exposure Point Concentrations: RGP-11

Parameter	MassDEP Background Concentrations		SAMPLING LOCATION		Data Evaluation and Calculation of EPC					
			RGP-11-2	RGP-11-2	Maximum Concentration Detected	Exceed Natural Background	Exceed "Fill" Background	Contaminant of Concern	Method to Derive EPC	Exposure Point Concentration
Sampling Date	Natural	Soils assoc.	5/18/2016	5/18/2016						
Sample Depth	Soils	with Fill	Representative	Representative						
Analytical Method			VPH-04-1.1	USEPA 8260C						
C9-C18 ALIPHATICS					27			Yes	Maximum	27
C19-C36 ALIPHATICS					350			Yes	Maximum	350
C11-C22 AROMATICS					200			Yes	Maximum	200
ACENAPHTHENE	0.5	2			0.64	Yes	No	Yes	Maximum	0.64
ACENAPHTHYLENE	0.5	1			0.55	Yes	No	Yes	Maximum	0.55
ANTHRACENE	1	4			1.8	Yes	No	Yes	Maximum	1.8
BENZO(A)ANTHRACENE	2	9			4.1	Yes	No	Yes	Maximum	4.1
BENZO(A)PYRENE	2	7			3.8	Yes	No	Yes	Maximum	3.8
BENZO(B)FLUORANTHENE	2	8			4.7	Yes	No	Yes	Maximum	4.7
BENZO(G,H,I)PERYLENE	1	3			3.1	Yes	Yes	Yes	Maximum	3.1
BENZO(K)FLUORANTHENE	1	4			1.8	Yes	No	Yes	Maximum	1.8
CHRYSENE	2	7			4.2	Yes	No	Yes	Maximum	4.2
DIBENZ(A,H)ANTHRACENE	0.5	1			0.76	Yes	No	Yes	Maximum	0.76
DIBENZOFURAN					1.6			No - note 3		
FLUORANTHENE	4	10			12	Yes	Yes	Yes	Maximum	12
FLUORENE	1	2			2.0	Yes	No	Yes	Maximum	2.0
INDENO(1,2,3-CD)PYRENE	1	3			2.9	Yes	No	Yes	Maximum	2.9
2-METHYLNAPHTHALENE	0.5	1			1.3	Yes	Yes	Yes	Maximum	1.3
NAPHTHALENE	0.5	1	ND (0.25)	ND (0.0032)	2.8	Yes	Yes	Yes	Maximum	2.8
PHENANTHRENE	3	20			11	Yes	No	Yes	Maximum	11
PYRENE	4	20			8.4	Yes	No	Yes	Maximum	8.4
Analytical Method										
ANTIMONY					None Detected			No		
ARSENIC					None Detected			No		
BARIUM	50	50			120	Yes	Yes	Yes	Maximum	120
BERYLLIUM					None Detected			Yes	See original risk assessment	
CADMIUM	2	3			0.31	No	No	No		
CHROMIUM	30	40			36	Yes	No	Yes	Maximum	36
LEAD	100	600			57	No	No	No		
NICKEL	20	30			23	Yes	No	Yes	Maximum	23
SELENIUM					None Detected			No		
SILVER					None Detected			No		
THALLIUM					None Detected			No		
VANADIUM	30	30			53	Yes	Yes	Yes	Maximum	53
ZINC	100	300			100	No	No	No		
Analytical Method										
MERCURY	0.3	1			0.029	No	No	No		

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. ~ = No Method 1 Standard
3. Not a separate Contaminant of Concern, because it is a constituent of C11-C22 aromatic hydrocarbons

Table 17.1
Summary of Pre-Excavation Soil Analytical Data: RGP-12

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION	
	S-1/GW-1	S-1/GW-2	S-1/GW-3	RGP-12	RGP-12-1
Sampling Date				7/8/2016	7/13/2016
Sample Depth				Representative	Representative
MADEP-EPH-04-1.1 (mg/Kg dry)					
C9-C18 ALIPHATICS	1000	1000	1000	25	
C19-C36 ALIPHATICS	3000	3000	3000	32	
UNADJUSTED C11-C22 AROMATICS	~	~	~	160	
C11-C22 AROMATICS	1000	1000	1000	110	
ACENAPHTHENE	4	1000	1000	1.2	
ACENAPHTHYLENE	1	600	10	0.15	
ANTHRACENE	1000	1000	1000	2.1	
BENZO(A)ANTHRACENE	7	7	7	3.2	
BENZO(A)PYRENE	2	2	2	2.7	
BENZO(B)FLUORANTHENE	7	7	7	3.4	
BENZO(G,H,I)PERYLENE	1000	1000	1000	1.7	
BENZO(K)FLUORANTHENE	70	70	70	1.3	
CHRYSENE	70	70	70	3.1	
DIBENZ(A,H)ANTHRACENE	0.7	0.7	0.7	0.47	
FLUORANTHENE	1000	1000	1000	7.1	
FLUORENE	1000	1000	1000	1.1	
INDENO(1,2,3-CD)PYRENE	7	7	7	1.8	
2-METHYLNAPHTHALENE	0.7	80	300	0.33	
NAPHTHALENE	4	20	500	3.3	
PHENANTHRENE	10	500	500	5.6	
PYRENE	1000	1000	1000	6.7	
MADEP-VPH-04-1.1 (mg/Kg dry)					
UNADJUSTED C5-C8 ALIPHATICS	~	~	~	ND (61)	
C5-C8 ALIPHATICS	100	100	100	ND (61)	
UNADJUSTED C9-C12 ALIPHATICS	~	~	~	ND (61)	
C9-C12 ALIPHATICS	1000	1000	1000	ND (61)	
C9-C10 AROMATICS	100	100	100	ND (61)	
BENZENE	2	40	40	ND (0.30)	
ETHYLBENZENE	40	500	500	0.32	
METHYL TERT-BUTYL ETHER (MTBE)	0.1	100	100	ND (0.30)	
NAPHTHALENE	4	20	500	180	
TOLUENE	30	500	500	ND (0.30)	
M/P-XYLENE	400	100	500	ND (0.61)	
O-XYLENE	400	100	500	ND (0.30)	
SM 2540G (% Wt)					
% Solids	~	~	~	88.7	89.2
SW-846 6010C-D (mg/Kg dry) Metals Digestion					
ANTIMONY	20	20	20	ND (2.8)	ND (2.8)
ARSENIC	20	20	20	8.4	ND (2.8)
BARIUM	1000	1000	1000	65	66
BERYLLIUM	90	90	90	0.67	ND (0.28)
CADMIUM	70	70	70	0.94	ND (0.28)
CHROMIUM	100	100	100	21	21
LEAD	200	200	200	140	180
NICKEL	600	600	600	40	20
SELENIUM	400	400	400	ND (5.6)	ND (5.6)
SILVER	100	100	100	3.0	ND (0.56)
THALLIUM	8	8	8	ND (2.8)	ND (2.8)
VANADIUM	400	400	400	89	40
ZINC	1000	1000	1000	110	110
SW-846 7471B (mg/Kg dry) Metals Digestion					
MERCURY	20	20	20	1.4	0.87
SW-846 8082A (mg/Kg dry)					
PCB 1016	1	1	1	ND (0.11)	ND (0.11)
PCB 1221	1	1	1	ND (0.11)	ND (0.11)
PCB 1232	1	1	1	ND (0.11)	ND (0.11)
PCB 1242	1	1	1	ND (0.11)	ND (0.11)
PCB 1248	1	1	1	ND (0.11)	ND (0.11)
PCB 1254	1	1	1	ND (0.11)	ND (0.11)
PCB 1260	1	1	1	ND (0.11)	ND (0.11)
PCB 1262	1	1	1	ND (0.11)	ND (0.11)
PCB 1268	1	1	1	ND (0.11)	ND (0.11)
SW-846 8260C (mg/Kg dry)					
ACETONE	6	50	400	ND (94)	ND (0.11)
TERT-AMYLMETHYL ETHER	~	~	~	ND (0.94)	ND (0.0011)
BENZENE	2	40	40	ND (1.9)	ND (0.0022)
BROMOBENZENE	~	~	~	ND (1.9)	ND (0.0022)
BROMOCHLOROMETHANE	~	~	~	ND (1.9)	ND (0.0022)
BROMODICHLOROMETHANE	0.1	0.1	30	ND (1.9)	ND (0.0022)
BROMOFORM	0.1	1	300	ND (3.8)	ND (0.011)
BROMOMETHANE	0.5	0.5	30	ND (3.8)	ND (0.011)
2-BUTANONE (MEK)	4	50	400	ND (38)	ND (0.044)
N-BUTYLBENZENE	~	~	~	ND (1.9)	ND (0.0022)
SEC-BUTYLBENZENE	~	~	~	ND (1.9)	ND (0.0022)
TERT-BUTYLBENZENE	~	~	~	ND (1.9)	ND (0.0022)
TERT-BUTYLETHYL ETHER	~	~	~	ND (0.94)	ND (0.0011)
CARBON DISULFIDE	~	~	~	ND (19)	ND (0.0066)
CARBON TETRACHLORIDE	10	5	30	ND (1.9)	ND (0.0022)
CHLOROBENZENE	1	3	100	ND (1.9)	ND (0.0022)
CHLORODIBROMOMETHANE	0.005	0.03	20	ND (0.94)	ND (0.0011)

Table 17.1
Summary of Pre-Excavation Soil Analytical Data: RGP-12

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION	
	S-1/GW-1	S-1/GW-2	S-1/GW-3	RGP-12	RGP-12-1
Sampling Date				7/8/2016	7/13/2016
Sample Depth				Representative	Representative
CHLOROETHANE	~	~	~	ND (3.8)	ND (0.011)
CHLOROFORM	0.4	0.2	500	ND (3.8)	ND (0.0044)
CHLOROMETHANE	~	~	~	ND (3.8)	ND (0.011)
2-CHLOROTOLUENE	~	~	~	ND (1.9)	ND (0.0022)
4-CHLOROTOLUENE	~	~	~	ND (1.9)	ND (0.0022)
1,2-DIBROMO-3-CHLOROPROPANE	~	~	~	ND (7.5)	ND (0.011)
1,2-DIBROMOETHANE (EDB)	0.1	0.1	1	ND (0.94)	ND (0.0011)
DIBROMOMETHANE	~	~	~	ND (1.9)	ND (0.0022)
1,2-DICHLOROBENZENE	9	100	300	ND (1.9)	ND (0.0022)
1,3-DICHLOROBENZENE	3	100	100	ND (1.9)	ND (0.0022)
1,4-DICHLOROBENZENE	0.7	1	80	ND (1.9)	ND (0.0022)
DICHLORODIFLUOROMETHANE	~	~	~	ND (3.8)	ND (0.011)
1,1-DICHLOROETHANE	0.4	9	500	ND (1.9)	ND (0.0022)
1,2-DICHLOROETHANE	0.1	0.1	20	ND (1.9)	ND (0.0022)
1,1-DICHLOROETHYLENE	3	40	500	ND (1.9)	ND (0.0044)
CIS-1,2-DICHLOROETHYLENE	0.3	0.1	100	ND (1.9)	ND (0.0022)
TRANS-1,2-DICHLOROETHYLENE	1	1	500	ND (1.9)	ND (0.0022)
1,2-DICHLOROPROPANE	0.1	0.1	30	ND (1.9)	ND (0.0022)
1,3-DICHLOROPROPANE	~	~	~	ND (0.94)	ND (0.0011)
2,2-DICHLOROPROPANE	~	~	~	ND (1.9)	ND (0.0022)
1,1-DICHLOROPROPENE	~	~	~	ND (3.8)	ND (0.0022)
CIS-1,3-DICHLOROPROPENE	0.01	0.4	9	ND (0.94)	ND (0.0011)
TRANS-1,3-DICHLOROPROPENE	0.01	0.4	9	ND (0.94)	ND (0.0011)
DIETHYL ETHER	~	~	~	ND (3.8)	ND (0.011)
DIISOPROPYL ETHER	~	~	~	ND (0.94)	ND (0.0011)
1,4-DIOXANE	0.2	6	20	ND (94)	ND (0.11)
ETHYLBENZENE	40	500	500	ND (1.9)	ND (0.0022)
HEXACHLOROBUTADIENE	30	30	30	ND (1.9)	ND (0.0022)
2-HEXANONE	~	~	~	ND (19)	ND (0.022)
ISOPROPYLBENZENE	~	~	~	ND (1.9)	ND (0.0022)
P-ISOPROPYLTOLUENE	~	~	~	ND (1.9)	ND (0.0022)
METHYL TERT-BUTYL ETHER (MTBE)	0.1	100	100	ND (1.9)	ND (0.0044)
METHYLENE CHLORIDE	0.1	20	200	ND (9.4)	ND (0.011)
4-METHYL-2-PENTANONE (MIBK)	0.4	50	400	ND (19)	ND (0.022)
NAPHTHALENE	4	20	500	250	ND (0.011)
N-PROPYLBENZENE	~	~	~	ND (1.9)	ND (0.0022)
STYRENE	3	4	70	ND (1.9)	ND (0.0022)
1,1,1,2-TETRACHLOROETHANE	0.1	0.1	80	ND (1.9)	ND (0.0022)
1,1,2,2-TETRACHLOROETHANE	0.005	0.02	10	ND (0.94)	ND (0.0011)
TETRACHLOROETHYLENE	1	10	30	ND (1.9)	ND (0.0022)
TETRAHYDROFURAN	~	~	~	ND (7.5)	ND (0.011)
TOLUENE	30	500	500	ND (1.9)	ND (0.0022)
1,2,3-TRICHLOROBENZENE	~	~	~	ND (7.5)	ND (0.011)
1,2,4-TRICHLOROBENZENE	2	6	700	ND (1.9)	ND (0.011)
1,1,1-TRICHLOROETHANE	30	500	500	ND (1.9)	ND (0.0022)
1,1,2-TRICHLOROETHANE	0.1	2	40	ND (1.9)	ND (0.0022)
TRICHLOROETHYLENE	0.3	0.3	30	ND (1.9)	ND (0.0022)
TRICHLOROFLUOROMETHANE	~	~	~	ND (3.8)	ND (0.011)
1,2,3-TRICHLOROPROPANE	~	~	~	ND (3.8)	ND (0.0044)
1,2,4-TRIMETHYLBENZENE	~	~	~	2.0	ND (0.0022)
1,3,5-TRIMETHYLBENZENE	~	~	~	ND (1.9)	ND (0.0022)
VINYL CHLORIDE	0.9	0.7	1	ND (3.8)	ND (0.011)
M/P-XYLENE	400	100	500	ND (3.8)	ND (0.0044)
O-XYLENE	400	100	500	ND (1.9)	ND (0.0022)
SW-846 8270D (mg/Kg dry)					
ACENAPHTHENE	4	1000	1000	1.5	ND (0.38)
ACENAPHTHYLENE	1	600	10	0.40	ND (0.38)
ACETOPHENONE	~	~	~	ND (0.38)	ND (0.76)
ANILINE	~	~	~	ND (0.38)	ND (0.76)
ANTHRACENE	1000	1000	1000	2.3	1.2
BENZO(A)ANTHRACENE	7	7	7	4.2	2.6
BENZO(A)PYRENE	2	2	2	3.5	2.2
BENZO(B)FLUORANTHENE	7	7	7	3.9	2.6
BENZO(G,H,I)PERYLENE	1000	1000	1000	1.8	1.2
BENZO(K)FLUORANTHENE	70	70	70	1.6	0.99
BIS(2-CHLOROETHOXY)METHANE	~	~	~	ND (0.38)	ND (0.76)
BIS(2-CHLOROETHYL)ETHER	0.7	0.7	8	ND (0.38)	ND (0.76)
BIS(2-CHLOROISOPROPYL)ETHER	0.7	0.7	30	ND (0.38)	ND (0.76)
BIS(2-ETHYLHEXYL)PHTHALATE	90	90	90	ND (0.38)	ND (0.76)
4-BROMOPHENYL PHENYL ETHER	~	~	~	ND (0.38)	ND (0.76)
BUTYLBENZYLPHTHALATE	~	~	~	ND (0.38)	ND (0.76)
4-CHLOROANILINE	1	100	3	ND (0.74)	ND (1.5)
2-CHLORONAPHTHALENE	~	~	~	ND (0.38)	ND (0.76)
2-CHLOROPHENOL	0.7	100	100	ND (0.38)	ND (0.76)
CHRYSENE	70	70	70	3.9	2.4
DIBENZ(A,H)ANTHRACENE	0.7	0.7	0.7	0.43	ND (0.38)
DIBENZOFURAN	~	~	~	1.9	ND (0.76)
DI-N-BUTYLPHTHALATE	~	~	~	ND (0.38)	ND (0.76)
1,2-DICHLOROBENZENE	9	100	300	ND (0.38)	ND (0.76)
1,3-DICHLOROBENZENE	3	100	100	ND (0.38)	ND (0.76)
1,4-DICHLOROBENZENE	0.7	1	80	ND (0.38)	ND (0.76)

Table 17.1
Summary of Pre-Excavation Soil Analytical Data: RGP-12

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION	
	S-1/GW-1	S-1/GW-2	S-1/GW-3	RGP-12	RGP-12-1
Sampling Date				7/8/2016	7/13/2016
Sample Depth				Representative	Representative
3,3'-DICHLOROBENZIDINE	3	3	3	ND (0.19)	ND (0.38)
2,4-DICHLOROPHENOL	0.7	60	40	ND (0.38)	ND (0.76)
DIETHYLPHTHALATE	10	200	300	ND (0.38)	ND (0.76)
2,4-DIMETHYLPHENOL	0.7	100	500	ND (0.38)	ND (0.76)
DIMETHYLPHTHALATE	0.7	50	600	ND (0.38)	ND (0.76)
2,4-DINITROPHENOL	3	50	50	ND (0.74)	ND (1.5)
2,4-DINITROTOLUENE	0.7	2	2	ND (0.38)	ND (0.76)
2,6-DINITROTOLUENE	~	~	~	ND (0.38)	ND (0.76)
DI-N-OCTYLPHTHALATE	~	~	~	ND (0.38)	ND (0.76)
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	~	~	~	ND (0.38)	ND (0.76)
FLUORANTHENE	1000	1000	1000	8.8	5.9
FLUORENE	1000	1000	1000	2.3	0.71
HEXACHLOROBENZENE	0.7	0.7	0.7	ND (0.38)	ND (0.76)
HEXACHLOROBUTADIENE	30	30	30	ND (0.38)	ND (0.76)
HEXACHLOROETHANE	0.7	3	50	ND (0.38)	ND (0.76)
INDENO(1,2,3-CD)PYRENE	7	7	7	1.9	1.3
ISOPHORONE	~	~	~	ND (0.38)	ND (0.76)
2-METHYLNAPHTHALENE	0.7	80	300	1.6	ND (0.38)
O-CRESOL	~	~	~	ND (0.38)	ND (0.76)
M/P-CRESOL	~	~	~	ND (0.38)	ND (0.76)
NAPHTHALENE	4	20	500	7.8	0.55
NITROBENZENE	~	~	~	ND (0.38)	ND (0.76)
2-NITROPHENOL	~	~	~	ND (0.38)	ND (0.76)
4-NITROPHENOL	~	~	~	ND (0.74)	ND (1.5)
PENTACHLOROPHENOL	3	3	3	ND (0.38)	ND (0.76)
PHENANTHRENE	10	500	500	7.5	3.9
PHENOL	1	50	20	ND (0.38)	ND (0.76)
PYRENE	1000	1000	1000	6.7	4.3
1,2,4-TRICHLOROBENZENE	2	6	700	ND (0.38)	ND (0.76)
2,4,5-TRICHLOROPHENOL	4	1000	600	ND (0.38)	ND (0.76)
2,4,6-TRICHLOROPHENOL	0.7	20	20	ND (0.38)	ND (0.76)
SM21-22 2510B Modified (µmhos/cm)					
SPECIFIC CONDUCTANCE	~	~	~		29
SW-846 1030 (present/absent)					
IGNITABILITY	~	~	~		Absent
SW-846 6010C-D (mg/L) 1311 TCLP EXT					
LEAD	~	~	~		0.36
SW-846 8081B (mg/Kg dry)					
ALDRIN	0.08	0.08	0.08		ND (0.055)
ALPHA-BHC	~	~	~		ND (0.055)
BETA-BHC	~	~	~		ND (0.055)
DELTA-BHC	~	~	~		ND (0.055)
GAMMA-BHC (LINDANE)	0.003	0.1	0.5		ND (0.022)
CHLORDANE	5	5	5		ND (0.22)
4,4'-DDD	8	8	8		ND (0.044)
4,4'-DDE	6	6	6		ND (0.044)
4,4'-DDT	6	6	6		ND (0.044)
DIELDRIN	0.08	0.08	0.08		ND (0.044)
ENDOSULFAN I	0.5	300	1		ND (0.055)
ENDOSULFAN II	0.5	300	1		ND (0.088)
ENDOSULFAN SULFATE	~	~	~		ND (0.088)
ENDRIN	10	10	10		ND (0.088)
ENDRIN KETONE	~	~	~		ND (0.088)
HEPTACHLOR	0.3	0.3	0.3		ND (0.055)
HEPTACHLOR EPOXIDE	0.1	0.1	0.1		ND (0.055)
HEXACHLOROBENZENE	0.7	0.7	0.7		ND (0.066)
METHOXYCHLOR	200	200	200		ND (0.55)
SW-846 8151A (µg/kg dry)					
2,4-D	~	~	~		ND (28)
2,4-DB	~	~	~		ND (28)
2,4,5-TP (SILVEX)	~	~	~		ND (2.8)
2,4,5-T	~	~	~		ND (2.8)
DALAPON	~	~	~		ND (69)
DICAMBA	~	~	~		ND (2.8)
DICHLOROPROP	~	~	~		ND (28)
DINOSEB	~	~	~		ND (14)
MCPA	~	~	~		ND (2800)
MCPP	~	~	~		ND (2800)
SW-846 8260C (mg/L) 1311 TCLP ZHE					
BENZENE	~	~	~		ND (0.010)
SW-846 9014 (mg/Kg)					
REACTIVE CYANIDE	~	~	~		ND (3.9)
SW-846 9030A (mg/Kg)					
REACTIVE SULFIDE	~	~	~		ND (20)
SW-846 9045C (pH Units)					
PH	~	~	~		7.1

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. ~ = No Method 1 Standard available

Table 17.2
Summary of Analytical Data for Residual Soil Samples: RGP-12

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION					
	S-1/GW-1	S-1/GW-2	S-1/GW-3	RGP-12-BTM	RGP-12-ESW	RGP-12-NW-BTM	RGP-12-NW-SW	RGP-12-SSW	RGP-12-WSW
Sampling Date				7/22/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016
Sample Depth				Bottom	East Wall	Bottom	South Wall	Southwest Wall	West Wall
MADEP-EPH-04-1.1 (mg/Kg dry)									
C9-C18 ALIPHATICS	1000	1000	1000	11	ND (11)	ND (11)	ND (11)	11	ND (11)
C19-C36 ALIPHATICS	3000	3000	3000	41	48	35	45	41	28
UNADJUSTED C11-C22 AROMATICS	~	~	~	380	130	120	110	180	110
C11-C22 AROMATICS	1000	1000	1000	220	97	83	79	130	77
ACENAPHTHENE	4	1000	1000	1.8	0.44	0.46	0.45	2.2	0.55
ACENAPHTHYLENE	1	600	10	6.2	0.71	0.30	0.20	0.49	ND (0.22)
ANTHRACENE	1000	1000	1000	11	1.5	1.1	1.0	2.9	1.3
BENZO(A)ANTHRACENE	7	7	7	8.6	2.5	2.9	2.5	3.2	2.2
BENZO(A)PYRENE	2	2	2	7.4	2.3	2.7	2.3	2.7	2.0
BENZO(B)FLUORANTHENE	7	7	7	9.2	2.9	3.3	2.8	3.5	2.4
BENZO(G,H,I)PERYLENE	1000	1000	1000	3.4	1.3	1.5	1.4	1.4	0.99
BENZO(K)FLUORANTHENE	70	70	70	3.5	1.1	1.2	1.1	1.3	0.86
CHRYSENE	70	70	70	10	2.7	2.8	2.5	3.2	2.3
DIBENZ(A,H)ANTHRACENE	0.7	0.7	0.7	1.3	0.37	0.43	0.36	0.43	0.34
FLUORANTHENE	1000	1000	1000	20	6.0	5.7	5.0	7.8	5.3
FLUORENE	1000	1000	1000	12	1.2	0.48	0.47	3.9	0.76
INDENO(1,2,3-CD)PYRENE	7	7	7	3.9	1.4	1.5	1.4	1.5	1.1
2-METHYLNAPHTHALENE	0.7	80	300	5.4	0.43	ND (0.11)	ND (0.11)	1.3	ND (0.22)
NAPHTHALENE	4	20	500	11	1.0	0.13	ND (0.11)	0.81	ND (0.22)
PHENANTHRENE	10	500	500	27	4.6	3.7	3.2	11	4.8
PYRENE	1000	1000	1000	19	5.3	5.5	4.6	6.7	5.0
SM 2540G (% Wt)									
% Solids	~	~	~	92.6	92.6	88.8	92.1	91.0	90.0

NOTES:
1. ND = Not detected above the lab reporting limits shown in parenthesis.
2. NT = Not tested.
3. ~ = No Method 1 Standard available

Table 17.3
Derivation of Exposure Point Concentrations in Soil: RGP-12

Parameter	SAMPLING LOCATION						Summary Statistics		
	RGP-12-BTM	RGP-12-ESW	RGP-12-NW-BTM	RGP-12-NW-SW	RGP-12-SSW	RGP-12-WSW	Total No. Samples	Total No. Detects	Mean Concentration (mg/kg)
Sampling Date	7/22/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016			
Sample Depth	Bottom	East Wall	Bottom	South Wall	Southwest Wall	West Wall			
MADEP-EPH-04-1.1 (mg/Kg dry)									
C9-C18 ALIPHATICS	11	5.5	5.5	5.5	11	5.5	6	2	7.3
C19-C36 ALIPHATICS	41	48	35	45	41	28	6	6	40
C11-C22 AROMATICS	220	97	83	79	130	77	6	6	114
ACENAPHTHENE	1.8	0.44	0.46	0.45	2.2	0.55	6	6	0.98
ACENAPHTHYLENE	6.2	0.71	0.30	0.20	0.49	0.11	6	5	1.3
ANTHRACENE	11	1.5	1.1	1.0	2.9	1.3	6	6	3.1
BENZO(A)ANTHRACENE	8.6	2.5	2.9	2.5	3.2	2.2	6	6	3.7
BENZO(A)PYRENE	7.4	2.3	2.7	2.3	2.7	2.0	6	6	3.2
BENZO(B)FLUORANTHENE	9.2	2.9	3.3	2.8	3.5	2.4	6	6	4.0
BENZO(G,H,I)PERYLENE	3.4	1.3	1.5	1.4	1.4	0.99	6	6	1.7
BENZO(K)FLUORANTHENE	3.5	1.1	1.2	1.1	1.3	0.86	6	6	1.5
CHRYSENE	10	2.7	2.8	2.5	3.2	2.3	6	6	3.9
DIBENZ(A,H)ANTHRACENE	1.3	0.37	0.43	0.36	0.43	0.34	6	6	0.54
FLUORANTHENE	20	6.0	5.7	5.0	7.8	5.3	6	6	8.3
FLUORENE	12	1.2	0.48	0.47	3.9	0.76	6	6	3.1
INDENO(1,2,3-CD)PYRENE	3.9	1.4	1.5	1.4	1.5	1.1	6	6	1.8
2-METHYLNAPHTHALENE	5.4	0.43	0.055	0.055	1.3	0.11	6	3	1.2
NAPHTHALENE	11	1.0	0.13	0.055	0.81	0.11	6	5	2.2
PHENANTHRENE	27	4.6	3.7	3.2	11	4.8	6	6	9.1
PYRENE	19	5.3	5.5	4.6	6.7	5.0	6	6	7.7

NOTES:

1. When deriving exposure point concentration, one-half laboratory reporting limit when none detected, in lieu of using zero.
2. Ethylbenzene (0.32 mg/kg) was detected in a sample collected for analysis of Volatile Petroleum Hydrocarbons (VPH) and target VOCs. It was not previously identified as a soil contaminant of concern for Lot 42 EP2A. It is now a contaminant of concern with an exposure point concentration of 0.32 mg/kg.
3. Mercury (1.4 mg/kg) was detected in a sample collected for analysis of Mass14 metals. It was not previously detected at a concentration exceeding its background concentration for soils associated with fill containing coal ash or wood ash and was not identified as a soil contaminant of concern for Lot 42 EP2A. It is now a contaminant of concern with an exposure point concentration of 1.4 mg/kg.

Table 18
Summary of Soil Analytical Data: RGP-13

Parameter	MCP - Method 1 Cleanup Standards			Samping Location
	S-1/GW-1	S-1/GW-2	S-1/GW-3	RGP-13
Sampling Date				7/20/2016
Sample Depth				Representative
MADEP-EPH-04-1.1 (mg/Kg dry)				
C9-C18 ALIPHATICS	1000	1000	1000	ND (13)
C19-C36 ALIPHATICS	3000	3000	3000	77
UNADJUSTED C11-C22 AROMATICS	~	~	~	93
C11-C22 AROMATICS	1000	1000	1000	75
ACENAPHTHENE	4	1000	1000	0.41
ACENAPHTHYLENE	1	600	10	0.20
ANTHRACENE	1000	1000	1000	1.1
BENZO(A)ANTHRACENE	7	7	7	1.2
BENZO(A)PYRENE	2	2	2	1.1
BENZO(B)FLUORANTHENE	7	7	7	1.3
BENZO(G,H,I)PERYLENE	1000	1000	1000	0.85
BENZO(K)FLUORANTHENE	70	70	70	0.54
CHRYSENE	70	70	70	1.3
DIBENZ(A,H)ANTHRACENE	0.7	0.7	0.7	0.20
FLUORANTHENE	1000	1000	1000	3.2
FLUORENE	1000	1000	1000	0.24
INDENO(1,2,3-CD)PYRENE	7	7	7	0.59
2-METHYLNAPHTHALENE	0.7	80	300	ND (0.13)
NAPHTHALENE	4	20	500	0.50
PHENANTHRENE	10	500	500	2.1
PYRENE	1000	1000	1000	2.7
MADEP-VPH-04-1.1 (mg/Kg dry)				
UNADJUSTED C5-C8 ALIPHATICS	~	~	~	ND (17)
C5-C8 ALIPHATICS	100	100	100	ND (17)
UNADJUSTED C9-C12 ALIPHATICS	~	~	~	ND (17)
C9-C12 ALIPHATICS	1000	1000	1000	ND (17)
C9-C10 AROMATICS	100	100	100	ND (17)
BENZENE	2	40	40	ND (0.084)
ETHYLBENZENE	40	500	500	ND (0.084)
METHYL TERT-BUTYL ETHER (MTBE)	0.1	100	100	ND (0.084)
NAPHTHALENE	4	20	500	1.8
TOLUENE	30	500	500	ND (0.084)
M/P-XYLENE	400	100	500	ND (0.17)
O-XYLENE	400	100	500	ND (0.084)
SM 2540G (% Wt)				
% Solids	~	~	~	74.1
SW-846 6010C-D (mg/Kg dry) Metals Digestion				
ANTIMONY	20	20	20	ND (3.3)
ARSENIC	20	20	20	8.8
BARIUM	1000	1000	1000	110
BERYLLIUM	90	90	90	0.45
CADMIUM	70	70	70	0.47
CHROMIUM	100	100	100	21
LEAD	200	200	200	180
NICKEL	600	600	600	29
SELENIUM	400	400	400	ND (6.7)
SILVER	100	100	100	ND (0.67)
THALLIUM	8	8	8	ND (3.3)
VANADIUM	400	400	400	80
ZINC	1000	1000	1000	160
SW-846 7471B (mg/Kg dry) Metals Digestion				
MERCURY	20	20	20	0.31
SW-846 8082A (mg/Kg dry)				
PCB 1016	1	1	1	ND (0.13)
PCB 1221	1	1	1	ND (0.13)
PCB 1232	1	1	1	ND (0.13)
PCB 1242	1	1	1	ND (0.13)
PCB 1248	1	1	1	ND (0.13)
PCB 1254	1	1	1	ND (0.13)
PCB 1260	1	1	1	ND (0.13)
PCB 1262	1	1	1	ND (0.13)
PCB 1268	1	1	1	ND (0.13)
SW-846 8260C (mg/Kg dry)				
ACETONE	6	50	400	ND (0.17)
TERT-AMYLMETHYL ETHER	~	~	~	ND (0.0017)
BENZENE	2	40	40	ND (0.0034)

Table 18
Summary of Soil Analytical Data: RGP-13

Parameter	MCP - Method 1 Cleanup Standards			Samping Location
	S-1/GW-1	S-1/GW-2	S-1/GW-3	RGP-13
Sampling Date				7/20/2016
Sample Depth				Representative
BROMOBENZENE	~	~	~	ND (0.0034)
BROMOCHLOROMETHANE	~	~	~	ND (0.0034)
BROMODICHLOROMETHANE	0.1	0.1	30	ND (0.0034)
BROMOFORM	0.1	1	300	ND (0.017)
BROMOMETHANE	0.5	0.5	30	ND (0.017)
2-BUTANONE (MEK)	4	50	400	ND (0.067)
N-BUTYLBENZENE	~	~	~	ND (0.0034)
SEC-BUTYLBENZENE	~	~	~	ND (0.0034)
TERT-BUTYLBENZENE	~	~	~	ND (0.0034)
TERT-BUTYLETHYL ETHER	~	~	~	ND (0.0017)
CARBON DISULFIDE	~	~	~	ND (0.010)
CARBON TETRACHLORIDE	10	5	30	ND (0.0034)
CHLOROBENZENE	1	3	100	ND (0.0034)
CHLORODIBROMOMETHANE	0.005	0.03	20	ND (0.0017)
CHLOROETHANE	~	~	~	ND (0.017)
CHLOROFORM	0.4	0.2	500	ND (0.0067)
CHLOROMETHANE	~	~	~	ND (0.017)
2-CHLOROTOLUENE	~	~	~	ND (0.0034)
4-CHLOROTOLUENE	~	~	~	ND (0.0034)
1,2-DIBROMO-3-CHLOROPROPANE	~	~	~	ND (0.017)
1,2-DIBROMOETHANE (EDB)	0.1	0.1	1	ND (0.0017)
DIBROMOMETHANE	~	~	~	ND (0.0034)
1,2-DICHLOROBENZENE	9	100	300	ND (0.0034)
1,3-DICHLOROBENZENE	3	100	100	ND (0.0034)
1,4-DICHLOROBENZENE	0.7	1	80	ND (0.0034)
DICHLORODIFLUOROMETHANE	~	~	~	ND (0.017)
1,1-DICHLOROETHANE	0.4	9	500	ND (0.0034)
1,2-DICHLOROETHANE	0.1	0.1	20	ND (0.0034)
1,1-DICHLOROETHYLENE	3	40	500	ND (0.0067)
CIS-1,2-DICHLOROETHYLENE	0.3	0.1	100	ND (0.0034)
TRANS-1,2-DICHLOROETHYLENE	1	1	500	ND (0.0034)
1,2-DICHLOROPROPANE	0.1	0.1	30	ND (0.0034)
1,3-DICHLOROPROPANE	~	~	~	ND (0.0017)
2,2-DICHLOROPROPANE	~	~	~	ND (0.0034)
1,1-DICHLOROPROPENE	~	~	~	ND (0.0034)
CIS-1,3-DICHLOROPROPENE	0.01	0.4	9	ND (0.0017)
TRANS-1,3-DICHLOROPROPENE	0.01	0.4	9	ND (0.0017)
DIETHYL ETHER	~	~	~	ND (0.017)
DIISOPROPYL ETHER	~	~	~	ND (0.0017)
1,4-DIOXANE	0.2	6	20	ND (0.17)
ETHYLBENZENE	40	500	500	ND (0.0034)
HEXACHLOROBUTADIENE	30	30	30	ND (0.0034)
2-HEXANONE	~	~	~	ND (0.034)
ISOPROPYLBENZENE	~	~	~	ND (0.0034)
P-ISOPROPYLTOLUENE	~	~	~	ND (0.0034)
METHYL TERT-BUTYL ETHER (MTBE)	0.1	100	100	ND (0.0067)
METHYLENE CHLORIDE	0.1	20	200	ND (0.017)
4-METHYL-2-PENTANONE (MIBK)	0.4	50	400	ND (0.034)
NAPHTHALENE	4	20	500	ND (0.017)
N-PROPYLBENZENE	~	~	~	ND (0.0034)
STYRENE	3	4	70	ND (0.0034)
1,1,1,2-TETRACHLOROETHANE	0.1	0.1	80	ND (0.0034)
1,1,2,2-TETRACHLOROETHANE	0.005	0.02	10	ND (0.0017)
TETRACHLOROETHYLENE	1	10	30	ND (0.0034)
TETRAHYDROFURAN	~	~	~	ND (0.017)
TOLUENE	30	500	500	ND (0.0034)
1,2,3-TRICHLOROBENZENE	~	~	~	ND (0.017)
1,2,4-TRICHLOROBENZENE	2	6	700	ND (0.017)
1,1,1-TRICHLOROETHANE	30	500	500	ND (0.0034)
1,1,2-TRICHLOROETHANE	0.1	2	40	ND (0.0034)
TRICHLOROETHYLENE	0.3	0.3	30	ND (0.0034)
TRICHLOROFLUOROMETHANE	~	~	~	ND (0.017)
1,2,3-TRICHLOROPROPANE	~	~	~	ND (0.0067)
1,2,4-TRIMETHYLBENZENE	~	~	~	ND (0.0034)
1,3,5-TRIMETHYLBENZENE	~	~	~	ND (0.0034)
VINYL CHLORIDE	0.9	0.7	1	ND (0.017)
M/P-XYLENE	400	100	500	ND (0.0067)

Table 18
Summary of Soil Analytical Data: RGP-13

Parameter	MCP - Method 1 Cleanup Standards			Samping Location
	S-1/GW-1	S-1/GW-2	S-1/GW-3	RGP-13
Sampling Date				7/20/2016
Sample Depth				Representative
O-XYLENE	400	100	500	ND (0.0034)
SW-846 8270D (mg/Kg dry)				
ACENAPHTHENE	4	1000	1000	0.81
ACENAPHTHYLENE	1	600	10	0.25
ACETOPHENONE	~	~	~	ND (0.46)
ANILINE	~	~	~	ND (0.46)
ANTHRACENE	1000	1000	1000	1.0
BENZO(A)ANTHRACENE	7	7	7	1.3
BENZO(A)PYRENE	2	2	2	1.0
BENZO(B)FLUORANTHENE	7	7	7	1.2
BENZO(G,H,I)PERYLENE	1000	1000	1000	0.49
BENZO(K)FLUORANTHENE	70	70	70	0.52
BIS(2-CHLOROETHOXY)METHANE	~	~	~	ND (0.46)
BIS(2-CHLOROETHYL)ETHER	0.7	0.7	8	ND (0.46)
BIS(2-CHLOROISOPROPYL)ETHER	0.7	0.7	30	ND (0.46)
BIS(2-ETHYLHEXYL)PHTHALATE	90	90	90	ND (0.46)
4-BROMOPHENYL PHENYL ETHER	~	~	~	ND (0.46)
BUTYLBENZYLPHTHALATE	~	~	~	ND (0.46)
4-CHLOROANILINE	1	100	3	ND (0.89)
2-CHLORONAPHTHALENE	~	~	~	ND (0.46)
2-CHLOROPHENOL	0.7	100	100	ND (0.46)
CHRYSENE	70	70	70	1.3
DIBENZ(A,H)ANTHRACENE	0.7	0.7	0.7	ND (0.23)
DIBENZOFURAN	~	~	~	0.58
DI-N-BUTYLPHTHALATE	~	~	~	ND (0.46)
1,2-DICHLOROBENZENE	9	100	300	ND (0.46)
1,3-DICHLOROBENZENE	3	100	100	ND (0.46)
1,4-DICHLOROBENZENE	0.7	1	80	ND (0.46)
3,3'-DICHLOROBENZIDINE	3	3	3	ND (0.23)
2,4-DICHLOROPHENOL	0.7	60	40	ND (0.46)
DIETHYLPHTHALATE	10	200	300	ND (0.46)
2,4-DIMETHYLPHENOL	0.7	100	500	ND (0.46)
DIMETHYLPHTHALATE	0.7	50	600	ND (0.46)
2,4-DINITROPHENOL	3	50	50	ND (0.89)
2,4-DINITROTOLUENE	0.7	2	2	ND (0.46)
2,6-DINITROTOLUENE	~	~	~	ND (0.46)
DI-N-OCTYLPHTHALATE	~	~	~	ND (0.46)
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	~	~	~	ND (0.46)
FLUORANTHENE	1000	1000	1000	2.9
FLUORENE	1000	1000	1000	0.49
HEXACHLOROBENZENE	0.7	0.7	0.7	ND (0.46)
HEXACHLOROBUTADIENE	30	30	30	ND (0.46)
HEXACHLOROETHANE	0.7	3	50	ND (0.46)
INDENO(1,2,3-CD)PYRENE	7	7	7	0.57
ISOPHORONE	~	~	~	ND (0.46)
2-METHYLNAPHTHALENE	0.7	80	300	ND (0.23)
O-CRESOL	~	~	~	ND (0.46)
M/P-CRESOL	~	~	~	ND (0.46)
NAPHTHALENE	4	20	500	1.1
NITROBENZENE	~	~	~	ND (0.46)
2-NITROPHENOL	~	~	~	ND (0.46)
4-NITROPHENOL	~	~	~	ND (0.89)
PENTACHLOROPHENOL	3	3	3	ND (0.46)
PHENANTHRENE	10	500	500	2.3
PHENOL	1	50	20	ND (0.46)
PYRENE	1000	1000	1000	2.3
1,2,4-TRICHLOROBENZENE	2	6	700	ND (0.46)
2,4,5-TRICHLOROPHENOL	4	1000	600	ND (0.46)
2,4,6-TRICHLOROPHENOL	0.7	20	20	ND (0.46)

NOTES:
2. ND = Not detected above the lab reporting limits shown in parenthesis.
3. NT = Not tested.
4. ~ = No Method 1 Standard available

Table 19.1
Summary of Groundwater Analytical Data: MW-UNKMW-100

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION			
	GW-1	GW-2	GW-3	UNKMW-100	UNKMW-100	Unk MW-100	Unk MW-100-Filtered
Sampling Date				12/23/2015	12/23/2015	3/10/2016	3/10/2016
				TOTAL	DISSOLVED	TOTAL	DISSOLVED
SW-846 8270D (µg/L)							
ACENAPHTHENE	20	~	10000	ND (0.30)	ND (0.30)		
ACENAPHTHYLENE	30	10000	40	ND (0.30)	ND (0.30)		
ACETOPHENONE	~	~	~	ND (10)	ND (10)		
ANILINE	~	~	~	ND (5.0)	ND (5.0)		
ANTHRACENE	60	~	30	ND (0.20)	ND (0.20)		
BENZO(A)ANTHRACENE	1	~	1000	ND (0.050)	ND (0.050)		
BENZO(A)PYRENE	0.2	~	500	ND (0.10)	ND (0.10)		
BENZO(B)FLUORANTHENE	1	~	400	ND (0.050)	ND (0.050)		
BENZO(G,H,I)PERYLENE	50	~	20	ND (0.50)	ND (0.50)		
BENZO(K)FLUORANTHENE	1	~	100	ND (0.20)	ND (0.20)		
BIS(2-CHLOROETHOXY)METHANE	~	~	~	ND (10)	ND (10)		
BIS(2-CHLOROETHYL)ETHER	30	30	50000	ND (10)	ND (10)		
BIS(2-CHLOROISOPROPYL)ETHER	30	100	50000	ND (10)	ND (10)		
BIS(2-ETHYLHEXYL)PHTHALATE	6	~	50000	ND (10)	ND (10)		
4-BROMOPHENYL PHENYL ETHER	~	~	~	ND (10)	ND (10)		
BUTYLBENZYLPHTHALATE	~	~	~	ND (10)	ND (10)		
4-CHLOROANILINE	20	50000	300	ND (10)	ND (10)		
2-CHLORONAPHTHALENE	~	~	~	ND (10)	ND (10)		
2-CHLOROPHENOL	10	20000	7000	ND (10)	ND (10)		
CHRYSENE	2	~	70	ND (0.20)	ND (0.20)		
DIBENZ(A,H)ANTHRACENE	0.5	~	40	ND (0.20)	ND (0.20)		
DIBENZOFURAN	~	~	~	ND (5.0)	ND (5.0)		
DI-N-BUTYLPHTHALATE	~	~	~	ND (10)	ND (10)		
1,2-DICHLOROBENZENE	600	8000	2000	ND (5.0)	ND (5.0)		
1,3-DICHLOROBENZENE	100	6000	50000	ND (5.0)	ND (5.0)		
1,4-DICHLOROBENZENE	5	60	8000	ND (5.0)	ND (5.0)		
3,3'-DICHLOROBENZIDINE	80	~	2000	ND (10)	ND (10)		
2,4-DICHLOROPHENOL	10	30000	2000	ND (10)	ND (10)		
DIETHYLPHTHALATE	2000	50000	9000	ND (10)	ND (10)		
2,4-DIMETHYLPHENOL	60	40000	50000	ND (10)	ND (10)		
DIMETHYLPHTHALATE	300	50000	50000	ND (10)	ND (10)		
2,4-DINITROPHENOL	200	50000	20000	ND (10)	ND (10)		
2,4-DINITROTOLUENE	30	20000	50000	ND (10)	ND (10)		
2,6-DINITROTOLUENE	~	~	~	ND (10)	ND (10)		
DI-N-OCTYLPHTHALATE	~	~	~	ND (10)	ND (10)		
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	~	~	~	ND (10)	ND (10)		
FLUORANTHENE	90	~	200	ND (0.50)	ND (0.50)		
FLUORENE	30	~	40	ND (1.0)	ND (1.0)		
HEXACHLOROBENZENE	1	1	6000	ND (10)	ND (10)		
HEXACHLOROBUTADIENE	0.6	50	3000	ND (10)	ND (10)		
HEXACHLOROETHANE	8	100	50000	ND (10)	ND (10)		
INDENO(1,2,3-CD)PYRENE	0.5	~	100	ND (0.20)	ND (0.20)		
ISOPHORONE	~	~	~	ND (10)	ND (10)		
2-METHYLNAPHTHALENE	10	2000	20000	ND (1.0)	ND (1.0)		
O-CRESOL	~	~	~	ND (10)	ND (10)		
M/P-CRESOL	~	~	~	ND (10)	ND (10)		
NAPHTHALENE	140	700	20000	ND (1.0)	ND (1.0)		
NITROBENZENE	~	~	~	ND (10)	ND (10)		
2-NITROPHENOL	~	~	~	ND (10)	ND (10)		
4-NITROPHENOL	~	~	~	ND (10)	ND (10)		
PENTACHLOROPHENOL	1	~	200	ND (10)	ND (10)		
PHENANTHRENE	40	~	10000	ND (0.050)	ND (0.050)		
PHENOL	1000	50000	2000	ND (10)	ND (10)		
PYRENE	60	~	20	ND (1.0)	ND (1.0)		
1,2,4-TRICHLOROBENZENE	70	200	50000	ND (5.0)	ND (5.0)		
2,4,5-TRICHLOROPHENOL	200	50000	3000	ND (10)	ND (10)		
2,4,6-TRICHLOROPHENOL	10	5000	500	ND (10)	ND (10)		
SW-846 8081B (µg/L)							
ALDRIN						ND (0.050)	ND (0.050)
ALPHA-BHC						ND (0.050)	ND (0.050)
BETA-BHC						ND (0.050)	ND (0.050)
DELTA-BHC						ND (0.050)	ND (0.050)
GAMMA-BHC (LINDANE)						ND (0.030)	ND (0.030)
CHLORDANE						ND (0.20)	ND (0.20)
4,4'-DDD						ND (0.040)	ND (0.040)
4,4'-DDE						ND (0.040)	ND (0.040)
4,4'-DDT						ND (0.040)	ND (0.040)
DIELDRIN						ND (0.0020)	ND (0.0020)
ENDOSULFAN I						ND (0.050)	ND (0.050)
ENDOSULFAN II						ND (0.080)	ND (0.080)
ENDOSULFAN SULFATE						ND (0.080)	ND (0.080)
ENDRIN						ND (0.080)	ND (0.080)
ENDRIN KETONE						ND (0.080)	ND (0.080)
HEPTACHLOR						ND (0.050)	ND (0.050)
HEPTACHLOR EPOXIDE						ND (0.050)	ND (0.050)
HEXACHLOROBENZENE						ND (0.050)	ND (0.050)
METHOXYCHLOR						ND (0.50)	ND (0.50)
NOTES:							
1. ND = Not detected above the lab reporting limits shown in parenthesis.							
2. NT = Not tested.							
3. ~ = No Method 1 Standard or UCL available							

Table 19.2
Summary of Groundwater Analytical Data: MW-RGP8

Parameter	MCP - Method 1 Cleanup Standards			SAMPLING LOCATION	
	GW-1	GW-2	GW-3	MW-RGP8	MW-RGP8-F
Sampling Date				3/22/2016	3/22/2016
				TOTAL	DISSOLVED
MADEP-EPH-04-1.1 (µg/L)					
C9-C18 ALIPHATICS	700	5000	50000	ND (100)	ND (100)
C19-C36 ALIPHATICS	14000	~	50000	ND (100)	ND (100)
UNADJUSTED C11-C22 AROMATICS	~	~	~	ND (100)	ND (100)
C11-C22 AROMATICS	200	50000	5000	ND (100)	ND (100)
ACENAPHTHENE	20	~	10000	ND (2.0)	ND (2.0)
ACENAPHTHYLENE	30	10000	40	ND (2.0)	ND (2.0)
ANTHRACENE	60	~	30	ND (2.0)	ND (2.0)
BENZO(A)ANTHRACENE	1	~	1000	ND (2.0)	ND (2.0)
BENZO(A)PYRENE	0.2	~	500	ND (2.0)	ND (2.0)
BENZO(B)FLUORANTHENE	1	~	400	ND (2.0)	ND (2.0)
BENZO(G,H,I)PERYLENE	50	~	20	ND (2.0)	ND (2.0)
BENZO(K)FLUORANTHENE	1	~	100	ND (2.0)	ND (2.0)
CHRYSENE	2	~	70	ND (2.0)	ND (2.0)
DIBENZ(A,H)ANTHRACENE	0.5	~	40	ND (2.0)	ND (2.0)
FLUORANTHENE	90	~	200	ND (2.0)	ND (2.0)
FLUORENE	30	~	40	ND (2.0)	ND (2.0)
INDENO(1,2,3-CD)PYRENE	0.5	~	100	ND (2.0)	ND (2.0)
2-METHYLNAPHTHALENE	10	2000	20000	ND (2.0)	ND (2.0)
NAPHTHALENE	140	700	20000	11	9.5
PHENANTHRENE	40	~	10000	ND (2.0)	ND (2.0)
PYRENE	60	~	20	ND (2.0)	ND (2.0)
MADEP-VPH-04-1.1 (µg/L)					
UNADJUSTED C5-C8 ALIPHATICS	~	~	~	ND (200)	NT
C5-C8 ALIPHATICS	300	3000	50000	ND (200)	NT
UNADJUSTED C9-C12 ALIPHATICS	~	~	~	ND (200)	NT
C9-C12 ALIPHATICS	700	5000	50000	ND (200)	NT
C9-C10 AROMATICS	200	4000	50000	ND (200)	NT
BENZENE	5	1000	10000	ND (2.0)	NT
ETHYLBENZENE	700	20000	5000	ND (2.0)	NT
METHYL TERT-BUTYL ETHER (MTBE)	70	50000	50000	ND (2.0)	NT
NAPHTHALENE	140	700	20000	ND (10)	NT
TOLUENE	1000	50000	40000	ND (2.0)	NT
M/P-XYLENE	10000	3000	5000	ND (4.0)	NT
O-XYLENE	10000	3000	5000	ND (2.0)	NT
SW-846 8270D (µg/L)					
ACENAPHTHENE	20	~	10000	ND (0.30)	ND (0.30)
ACENAPHTHYLENE	30	10000	40	0.85	0.34
ANTHRACENE	60	~	30	ND (0.20)	ND (0.20)
BENZO(A)ANTHRACENE	1	~	1000	ND (0.050)	ND (0.050)
BENZO(A)PYRENE	0.2	~	500	ND (0.10)	ND (0.10)
BENZO(B)FLUORANTHENE	1	~	400	ND (0.050)	ND (0.050)
BENZO(G,H,I)PERYLENE	50	~	20	ND (0.50)	ND (0.50)
BENZO(K)FLUORANTHENE	1	~	100	ND (0.20)	ND (0.20)
CHRYSENE	2	~	70	ND (0.20)	ND (0.20)
DIBENZ(A,H)ANTHRACENE	0.5	~	40	ND (0.20)	ND (0.20)
FLUORANTHENE	90	~	200	ND (0.50)	ND (0.50)
FLUORENE	30	~	40	ND (1.0)	ND (1.0)
INDENO(1,2,3-CD)PYRENE	0.5	~	100	ND (0.20)	ND (0.20)
2-METHYLNAPHTHALENE	10	2000	20000	1.3	ND (1.0)
NAPHTHALENE	140	700	20000	15	5.6
PHENANTHRENE	40	~	10000	0.43	0.16
PYRENE	60	~	20	ND (1.0)	ND (1.0)
NOTES:					
1. ND = Not detected above the lab reporting limits shown in parenthesis.					
2. NT = Not tested.					
3. ~ = No Method 1 Standard or UCL available					

Table 19.3:

Residences @ Great Pond - Well Water Analysis Fall 2017

Sample	Analysis	Matrix	Analyte	Units	Lab Reporting Limit	Result	MA Drinking Water Standards
IR-1	1,4-Dioxane SIM	Water (Drinking Water)	1,4-Dioxane	µg/L	0.2	ND	0.30
IR-1	504 - Subcontracted	Water (Drinking Water)	1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.01	<0.0100	0.20
IR-1	504 - Subcontracted	Water (Drinking Water)	1,2-Dibromoethane (EDB)	µg/L	0.01	<0.0100	0.02
IR-1	505	Water (Drinking Water)	alpha-Chlordane	µg/L	0.2	<0.200	--
	PCBs						
IR-1	505	Water (Drinking Water)	Aroclor-1016	µg/L	0.25	<0.250	0.50
IR-1	505	Water (Drinking Water)	Aroclor-1221	µg/L	0.25	<0.250	0.50
IR-1	505	Water (Drinking Water)	Aroclor-1232	µg/L	0.25	<0.250	0.50
IR-1	505	Water (Drinking Water)	Aroclor-1242	µg/L	0.25	<0.250	0.50
IR-1	505	Water (Drinking Water)	Aroclor-1248	µg/L	0.25	<0.250	0.50
IR-1	505	Water (Drinking Water)	Aroclor-1254	µg/L	0.25	<0.250	0.50
IR-1	505	Water (Drinking Water)	Aroclor-1260	µg/L	0.25	<0.250	0.50
	Pesticides						
IR-1	505	Water (Drinking Water)	Chlordane	µg/L	0.2	<0.200	2.00
IR-1	505	Water (Drinking Water)	Dieldrin	µg/L	0.04	<0.0400	--
IR-1	505	Water (Drinking Water)	Endrin	µg/L	0.01	<0.0100	2.00
IR-1	505	Water (Drinking Water)	Toxaphene	µg/L	1	<0.100	3.00
IR-1	515.3	Water (Drinking Water)	2,4,5-TP (Silvex)	µg/L	0.2	<0.200	50.00
IR-1	515.3	Water (Drinking Water)	2,4-D	µg/L	0.1	<0.100	70.00
IR-1	515.3	Water (Drinking Water)	Dalapon	µg/L	1	<1.00	200.00
IR-1	515.3	Water (Drinking Water)	Dicamba	µg/L	0.1	<0.100	--
IR-1	515.3	Water (Drinking Water)	Dinoseb	µg/L	0.2	<0.20	7.00
IR-1	515.3	Water (Drinking Water)	Pentachlorophenol	µg/L	0.04	<0.0400	1.00
IR-1	515.3	Water (Drinking Water)	Picloram	µg/L	0.1	<0.100	500.00
IR-1	525.2	Water (Drinking Water)	Alachlor	µg/L	0.2	<0.200	2.00
IR-1	525.2	Water (Drinking Water)	Aldrin	µg/L	0.1	<0.100	--
IR-1	525.2	Water (Drinking Water)	Atrazine	µg/L	0.1	<0.100	3.00
IR-1	525.2	Water (Drinking Water)	Benzo(a)pyrene	µg/L	0.02	<0.020	0.20
IR-1	525.2	Water (Drinking Water)	Butachlor	µg/L	0.1	<0.100	--
IR-1	525.2	Water (Drinking Water)	Di(2-ethylhexyl)adipate	µg/L	0.6	<0.600	400.00
IR-1	525.2	Water (Drinking Water)	Di(2-ethylhexyl)phthalate	µg/L	0.6	<0.600	6.00
IR-1	525.2	Water (Drinking Water)	Heptachlor	µg/L	0.04	<0.040	0.40
IR-1	525.2	Water (Drinking Water)	Heptachlor Epoxide	µg/L	0.02	<0.020	0.20
IR-1	525.2	Water (Drinking Water)	Hexachlorobenzene	µg/L	0.1	<0.100	1.00
IR-1	525.2	Water (Drinking Water)	Hexachlorocyclopentadiene	µg/L	0.1	<0.100	50.00
IR-1	525.2	Water (Drinking Water)	Lindane	µg/L	0.02	<0.020	0.20
IR-1	525.2	Water (Drinking Water)	Methoxychlor	µg/L	0.1	<0.100	40.00
IR-1	525.2	Water (Drinking Water)	Metolachlor	µg/L	0.1	<0.100	100.00
IR-1	525.2	Water (Drinking Water)	Metribuzin	µg/L	0.1	<0.100	100.00
IR-1	525.2	Water (Drinking Water)	Propachlor	µg/L	0.1	<0.100	--
IR-1	525.2	Water (Drinking Water)	Simazine	µg/L	0.07	<0.070	4.00

Table 19.3:

Residences @ Great Pond - Well Water Analysis Fall 2017

Sample	Analysis	Matrix	Analyte	Units	Lab Reporting Limit	Result	MA Drinking Water Standards
IR-1	531.2	Water (Drinking Water)	3-Hydroxycarbofuran	µg/L	0.5	<0.500	--
IR-1	531.2	Water (Drinking Water)	Aldicarb	µg/L	0.5	<0.500	3.00
IR-1	531.2	Water (Drinking Water)	Aldicarb sulfone	µg/L	0.8	<0.800	2.00
IR-1	531.2	Water (Drinking Water)	Aldicarb sulfoxide	µg/L	0.5	<0.500	4.00
IR-1	531.2	Water (Drinking Water)	Carbaryl	µg/L	0.5	<0.500	--
IR-1	531.2	Water (Drinking Water)	Carbofuran	µg/L	0.9	<0.900	40.00
IR-1	531.2	Water (Drinking Water)	Methomyl	µg/L	0.5	<0.500	--
IR-1	531.2	Water (Drinking Water)	Oxamyl	µg/L	2	<2.00	200.00
	Waste Water						
IR-1	Coliform, Total (Colisure) by SM 9223	Water (Drinking Water)	Coliform, Total	present/absent	1	Absent	Treatment
IR-1	Cyanide, Free by EPA 335.4	Water (Drinking Water)	Cyanide (free)	mg/L	0.01	ND	0.20
IR-1	Fluoride by SM4500 F C	Water (Drinking Water)	Fluoride	mg/L	0.3	ND	4.00
IR-1	Nitrate/Nitrite - N (NO3/NO2) SM4500 NO3 F	Water (Drinking Water)	Nitrate/Nitrite as N	mg/L	0.05	3.3	10.00
IR-1	Nitrate-Nitrogen (NO3) by SM4500 NO3 F	Water (Drinking Water)	Nitrate as N	mg/L	0.05	3.2	10.00
IR-1	Nitrite-Nitrogen (NO2) by SM4500 NO2 B	Water (Drinking Water)	Nitrite as N	mg/L	0.01	0.13	1.00
IR-1	Perchlorate	Water (Drinking Water)	Perchlorate	µg/L	0.05	0.267	2.00
IR-1	Sodium 200.7 Dissolved	Water (Drinking Water)	Sodium	mg/L	2	52	20.00
IR-1	Sodium 200.7 Total	Water (Drinking Water)	Sodium	mg/L	2	61	20.00
IR-1	Total Kjeldahl Nitrogen (TKN) by SM4500 NH3 C	Water (Drinking Water)	Total Kjeldahl Nitrogen	mg/L	1	1.1	10.00
IR-1	Total Nitrogen	Water (Drinking Water)	Total Nitrogen	mg/L	0.05	4.4	10.00
IR-1	Entercocci	Water (Drinking Water)	Entercocci	CFU/100mL	10	<10	Treatment
	VOCs						
IR-1	8260 MA MCP	Water (Drinking Water)	1,1,1,2-Tetrachloroethane	µg/L	1	ND	5.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,1,1-Trichloroethane	µg/L	1	ND	200.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,1,2,2-Tetrachloroethane	µg/L	0.5	ND	2.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,1,2-Trichloroethane	µg/L	1	ND	5.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,1-Dichloroethane	µg/L	1	ND	70.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,1-Dichloroethylene	µg/L	1	ND	7.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,1-Dichloropropene	µg/L	0.5	ND	0.40
IR-1	8260 MA MCP	Water (Drinking Water)	1,2,3-Trichlorobenzene	µg/L	2	ND	70.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,2,3-Trichloropropane	µg/L	2	ND	1000.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,2,4-Trichlorobenzene	µg/L	2	ND	70.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,2,4-Trimethylbenzene	µg/L	1	ND	10000.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2	ND	--
IR-1	8260 MA MCP	Water (Drinking Water)	1,2-Dibromoethane (EDB)	µg/L	0.5	ND	0.02
IR-1	8260 MA MCP	Water (Drinking Water)	1,2-Dichlorobenzene	µg/L	1	ND	600.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,2-Dichloroethane	µg/L	1	ND	5.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,2-Dichloropropane	µg/L	1	ND	3.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,3,5-Trimethylbenzene	µg/L	1	ND	--
IR-1	8260 MA MCP	Water (Drinking Water)	1,3-Dichlorobenzene	µg/L	1	ND	100.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,3-Dichloropropane	µg/L	0.5	ND	5000.00

Table 19.3:
Residences @ Great Pond - Well Water Analysis Fall 2017

Sample	Analysis	Matrix	Analyte	Units	Lab Reporting Limit	Result	MA Drinking Water Standards
IR-1	8260 MA MCP	Water (Drinking Water)	1,4-Dichlorobenzene	µg/L	1	ND	5.00
IR-1	8260 MA MCP	Water (Drinking Water)	1,4-Dioxane	µg/L	50	ND	0.30
IR-1	8260 MA MCP	Water (Drinking Water)	2,2-Dichloropropane	µg/L	1	ND	--
IR-1	8260 MA MCP	Water (Drinking Water)	2-Butanone (MEK)	µg/L	10	18	4000.00
IR-1	8260 MA MCP	Water (Drinking Water)	2-Chlorotoluene	µg/L	1	ND	--
IR-1	8260 MA MCP	Water (Drinking Water)	2-Hexanone (MBK)	µg/L	10	ND	--
IR-1	8260 MA MCP	Water (Drinking Water)	4-Chlorotoluene	µg/L	1	ND	--
IR-1	8260 MA MCP	Water (Drinking Water)	4-Methyl-2-pentanone (MIBK)	µg/L	10	ND	350.00
IR-1	8260 MA MCP	Water (Drinking Water)	Acetone	µg/L	10	ND	6300.00
IR-1	8260 MA MCP	Water (Drinking Water)	Benzene	µg/L	1	ND	5.00
IR-1	8260 MA MCP	Water (Drinking Water)	Bromobenzene	µg/L	1	ND	1000.00
IR-1	8260 MA MCP	Water (Drinking Water)	Bromochloromethane	µg/L	1	ND	2.00
IR-1	8260 MA MCP	Water (Drinking Water)	Bromodichloromethane	µg/L	1	ND	3.00
IR-1	8260 MA MCP	Water (Drinking Water)	Bromoform	µg/L	1	ND	4.00
IR-1	8260 MA MCP	Water (Drinking Water)	Bromomethane	µg/L	2	ND	7.00
IR-1	8260 MA MCP	Water (Drinking Water)	Carbon Disulfide	µg/L	5	26	1000.00
IR-1	8260 MA MCP	Water (Drinking Water)	Carbon Tetrachloride	µg/L	1	ND	2.00
IR-1	8260 MA MCP	Water (Drinking Water)	Chlorobenzene	µg/L	1	ND	100.00
IR-1	8260 MA MCP	Water (Drinking Water)	Chlorodibromomethane	µg/L	0.5	ND	2.00
IR-1	8260 MA MCP	Water (Drinking Water)	Chloroethane	µg/L	2	ND	1000.00
IR-1	8260 MA MCP	Water (Drinking Water)	Chloroform	µg/L	2	ND	500.00
IR-1	8260 MA MCP	Water (Drinking Water)	Chloromethane	µg/L	2	ND	1000.00
IR-1	8260 MA MCP	Water (Drinking Water)	cis-1,2-Dichloroethylene	µg/L	1	ND	20.00
IR-1	8260 MA MCP	Water (Drinking Water)	cis-1,3-Dichloropropene	µg/L	0.4	ND	0.40
IR-1	8260 MA MCP	Water (Drinking Water)	Dibromomethane	µg/L	1	ND	5000.00
IR-1	8260 MA MCP	Water (Drinking Water)	Dichlorodifluoromethane (Freon 12)	µg/L	2	ND	10000.00
IR-1	8260 MA MCP	Water (Drinking Water)	Diethyl Ether	µg/L	2	ND	1000.00
IR-1	8260 MA MCP	Water (Drinking Water)	Diisopropyl Ether (DIPE)	µg/L	0.5	ND	1000.00
IR-1	8260 MA MCP	Water (Drinking Water)	Ethylbenzene	µg/L	1	ND	700.00
IR-1	8260 MA MCP	Water (Drinking Water)	Hexachlorobutadiene	µg/L	0.6	ND	0.60
IR-1	8260 MA MCP	Water (Drinking Water)	Isopropylbenzene (Cumene)	µg/L	1	ND	--
IR-1	8260 MA MCP	Water (Drinking Water)	m+p Xylene	µg/L	2	ND	3000.00
IR-1	8260 MA MCP	Water (Drinking Water)	Methyl tert-Butyl Ether (MTBE)	µg/L	1	ND	70.00
IR-1	8260 MA MCP	Water (Drinking Water)	Methylene Chloride	µg/L	5	ND	5.00
IR-1	8260 MA MCP	Water (Drinking Water)	Naphthalene	µg/L	2	ND	140.00
IR-1	8260 MA MCP	Water (Drinking Water)	n-Butylbenzene	µg/L	1	ND	--
IR-1	8260 MA MCP	Water (Drinking Water)	n-Propylbenzene	µg/L	1	ND	1000.00
IR-1	8260 MA MCP	Water (Drinking Water)	o-Xylene	µg/L	1	ND	10000.00
IR-1	8260 MA MCP	Water (Drinking Water)	p-Isopropyltoluene (p-Cymene)	µg/L	1	ND	--
IR-1	8260 MA MCP	Water (Drinking Water)	sec-Butylbenzene	µg/L	1	ND	--
IR-1	8260 MA MCP	Water (Drinking Water)	Styrene	µg/L	1	ND	100.00
IR-1	8260 MA MCP	Water (Drinking Water)	tert-Amyl Methyl Ether (TAME)	µg/L	0.5	ND	--

Table 19.3:

Residences @ Great Pond - Well Water Analysis Fall 2017

Sample	Analysis	Matrix	Analyte	Units	Lab Reporting Limit	Result	MA Drinking Water Standards
IR-1	8260 MA MCP	Water (Drinking Water)	tert-Butyl Ethyl Ether (TBEE)	µg/L	0.5	ND	--
IR-1	8260 MA MCP	Water (Drinking Water)	tert-Butylbenzene	µg/L	1	ND	1000.00
IR-1	8260 MA MCP	Water (Drinking Water)	Tetrachloroethylene	µg/L	1	ND	5.00
IR-1	8260 MA MCP	Water (Drinking Water)	Toluene	µg/L	1	ND	1000.00
IR-1	8260 MA MCP	Water (Drinking Water)	trans-1,2-Dichloroethylene	µg/L	1	ND	--
IR-1	8260 MA MCP	Water (Drinking Water)	trans-1,3-Dichloropropene	µg/L	0.4	ND	--
IR-1	8260 MA MCP	Water (Drinking Water)	Trichloroethylene	µg/L	1	ND	5.00
IR-1	8260 MA MCP	Water (Drinking Water)	Trichlorofluoromethane (Freon 11)	µg/L	2	ND	--
IR-1	8260 MA MCP	Water (Drinking Water)	Vinyl Chloride	µg/L	2	ND	2.00
IR-1	8260 MA MCP	Water (Drinking Water)	Tetrahydrofuran	µg/L	40	330	5000.00
IR-1	**MA METALS**	Water (Drinking Water)					
IR-1	ANTIMONY	Water (Drinking Water)		µg/L	1	ND	6
IR-1	ARSENIC	Water (Drinking Water)		µg/L	1	ND	10
IR-1	BARIUM	Water (Drinking Water)		µg/L	25	170	2000
IR-1	BERYLLIUM	Water (Drinking Water)		µg/L	0.4	ND	4
IR-1	CADMIUM	Water (Drinking Water)		µg/L	0.2	ND	4
IR-1	CHROMIUM	Water (Drinking Water)		µg/L	10	ND	100
IR-1	COPPER	Water (Drinking Water)		µg/L	1	360	10000
IR-1	LEAD	Water (Drinking Water)		µg/L	0.5	4.5	10
IR-1	SELENIUM	Water (Drinking Water)		µg/L	0.5	ND	50
IR-1	THALLIUM	Water (Drinking Water)		µg/L	0.2	ND	2
IR-1	MERCURY	Water (Drinking Water)		µg/L	0.0001	ND	0.002
IR-1	**Radionucleides**	Water (Drinking Water)					
IR-1	Uranium	Water (Drinking Water)		pCi/L	0.67	3.9 ± 0.3	20.10
IR-1	Gross Alpha	Water (Drinking Water)		pCi/L	3	2.5 ± 2.7	15.00
IR-1	Radon 222	Water (Drinking Water)		pCi/L	100	840 ± 31	--
Notes: -- No Standard							
Above MMCL							

Table 20
Summary of Analytical Data: Stained Concrete

	MCP - Method 1 Cleanup Standards			Published Background	SAMPLING LOCATION						
Parameter	**S-1/GW-1**	**S-1/GW-2**	**S-1/GW-3**	**Fill [1]**	**STC-1**	**STC-2**	**STC-3**	**STC-4**	**STC-5**	**STC-6**	**STC-7**
Sampling Date					11/3/2015	11/12/2015	11/12/2015	11/12/2015	11/12/2015	11/12/2015	11/12/2015
SM2580 A (mV)											
OXIDATION/REDUCTION POTENTIAL	~	~	~		NA	110	47	40	16	9.0	1.0
SW-846 6010C (mg/Kg) Metals Digestion											
ANTIMONY	20	20	20	7	ND (2.4)	ND (2.5)	ND (2.4)	ND (2.4)	ND (2.5)	ND (2.5)	ND (2.5)
ARSENIC	20	20	20	20	19	19	24	20	27	32	33
BARIUM	1000	1000	1000	50	66	53	51	52	89	98	150
BERYLLIUM	90	90	90	0.9	0.38	0.41	0.44	0.46	0.31	0.33	0.34
CADMIUM	70	70	70	3	0.39	ND (0.25)	ND (0.24)	ND (0.24)	ND (0.25)	ND (0.25)	0.39
CHROMIUM +3	1000	1000	1000	40	53	25	11	12	68	95	97
LEAD	200	200	200	600	23	13	12	18	14	17	25
NICKEL	600	600	600	30	8.0	7.0	5.9	6.2	5.4	7.7	6.7
SELENIUM	400	400	400	1	ND (4.8)	ND (5.0)	ND (4.9)	ND (4.9)	ND (4.9)	ND (5.0)	ND (5.0)
SILVER	100	100	100	5	ND (0.48)	ND (0.50)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.50)	ND (0.50)
THALLIUM	8	8	8	5	ND (2.4)	ND (2.5)	ND (2.4)	ND (2.4)	ND (2.5)	ND (2.5)	ND (2.5)
VANADIUM	400	400	400	30	15	15	16	18	11	13	14
ZINC	1000	1000	1000	300	120	22	17	19	22	25	34
SW-846 6020A (µg/L) 1312 SPLP EXT											
ARSENIC	~	~	~		NA	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
CHROMIUM	~	~	~		NA	53	ND (5.0)	ND (5.0)	85	86	77
SW-846 7196A (mg/Kg)											
CHROMIUM +6	100	100	100	40	NA	2.8	ND (0.15)	ND (0.16)	13	15	13
SW-846 7471B (mg/Kg) Metals Digestion											
MERCURY	20	20	20	1	ND (0.024)	ND (0.024)	ND (0.025)	ND (0.024)	ND (0.023)	ND (0.024)	ND (0.024)
SW-846 8082A (mg/Kg)											
PCB 1016	1	1	1		NA	ND (0.096)	ND (0.099)	ND (0.098)	ND (0.091)	ND (0.097)	ND (0.094)
PCB 1221	1	1	1		NA	ND (0.096)	ND (0.099)	ND (0.098)	ND (0.091)	ND (0.097)	ND (0.094)
PCB 1232	1	1	1		NA	ND (0.096)	ND (0.099)	ND (0.098)	ND (0.091)	ND (0.097)	ND (0.094)
PCB 1242	1	1	1		NA	ND (0.096)	ND (0.099)	ND (0.098)	ND (0.091)	ND (0.097)	ND (0.094)
PCB 1248	1	1	1		NA	ND (0.096)	ND (0.099)	ND (0.098)	ND (0.091)	ND (0.097)	ND (0.094)
PCB 1254	1	1	1		NA	ND (0.096)	ND (0.099)	ND (0.098)	ND (0.091)	ND (0.097)	ND (0.094)
PCB 1260	1	1	1		NA	ND (0.096)	ND (0.099)	ND (0.098)	ND (0.091)	ND (0.097)	ND (0.094)
PCB 1262	1	1	1		NA	ND (0.096)	ND (0.099)	ND (0.098)	ND (0.091)	ND (0.097)	ND (0.094)
PCB 1268	1	1	1		NA	ND (0.096)	ND (0.099)	ND (0.098)	ND (0.091)	ND (0.097)	ND (0.094)
SW-846 8270D (mg/Kg)											
ACENAPHTHENE	4	1000	1000	2	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)
ACENAPHTHYLENE	1	600	10	1	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)
ACETOPHENONE	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
ANILINE	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
ANTHRACENE	1000	1000	1000	4	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)
BENZO(A)ANTHRACENE	7	7	7	9	NA	ND (0.17)	ND (0.17)	0.18	ND (0.16)	ND (0.17)	ND (0.17)
BENZO(A)PYRENE	2	2	2	7	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)
BENZO(B)FLUORANTHENE	7	7	7	8	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)
BENZO(G,H,I)PERYLENE	1000	1000	1000	3	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)
BENZO(K)FLUORANTHENE	70	70	70	4	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)
BIS(2-CHLOROETHOXY)METHANE	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
BIS(2-CHLOROETHYL)ETHER	0.7	0.7	8		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
BIS(2-CHLOROISOPROPYL)ETHER	0.7	0.7	30		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
BIS(2-ETHYLHEXYL)PHTHALATE	90	90	90		NA	0.51	0.37	ND (0.34)	0.45	0.43	ND (0.33)
4-BROMOPHENYL PHENYL ETHER	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
BUTYLBENZYLPHTHALATE	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
4-CHLOROANILINE	1	100	3		NA	ND (0.64)	ND (0.64)	ND (0.66)	ND (0.63)	ND (0.65)	ND (0.65)
2-CHLORONAPHTHALENE	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
2-CHLOROPHENOL	0.7	100	100		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
CHRYSENE	70	70	70	7	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)
DIBENZ(A,H)ANTHRACENE	0.7	0.7	0.7	1	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)
DIBENZOFURAN	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
DI-N-BUTYLPHTHALATE	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
1,2-DICHLOROBENZENE	9	100	300		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
1,3-DICHLOROBENZENE	3	100	100		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
1,4-DICHLOROBENZENE	0.7	1	80		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
3,3'-DICHLOROBENZIDINE	3	3	3		NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)
2,4-DICHLOROPHENOL	0.7	60	40		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
DIETHYLPHTHALATE	10	200	300		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
2,4-DIMETHYLPHENOL	0.7	100	500		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
DIMETHYLPHTHALATE	0.7	50	600		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
2,4-DINITROPHENOL	3	50	50		NA	ND (0.64)	ND (0.64)	ND (0.66)	ND (0.63)	ND (0.65)	ND (0.65)
2,4-DINITROTOLUENE	0.7	2	2		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
2,6-DINITROTOLUENE	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
DI-N-OCTYLPHTHALATE	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
FLUORANTHENE	1000	1000	1000	10	NA	0.22	0.28	0.31	ND (0.16)	0.26	ND (0.17)
FLUORENE	1000	1000	1000	2	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)
HEXACHLOROBENZENE	0.7	0.7	0.7		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
HEXACHLOROBUTADIENE	30	30	30		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
HEXACHLOROETHANE	0.7	3	50		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
INDENO(1,2,3-CD)PYRENE	7	7	7	3	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)
ISOPHORONE	~	~	~		NA	17	29	32	14	12	14
2-METHYLNAPHTHALENE	0.7	80	300	1	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)
O-CRESOL	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
M/P-CRESOL	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
NAPHTHALENE	4	20	500	1	NA	ND (0.17)	ND (0.17)	ND (0.17)	ND (0.16)	ND (0.17)	ND (0.17)
NITROBENZENE	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)

Table 20
Summary of Analytical Data: Stained Concrete

	MCP - Method 1 Cleanup Standards			Published Background	SAMPLING LOCATION						
Parameter	**S-1/GW-1**	**S-1/GW-2**	**S-1/GW-3**	**Fill [1]**	**STC-1**	**STC-2**	**STC-3**	**STC-4**	**STC-5**	**STC-6**	**STC-7**
2-NITROPHENOL	~	~	~		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
4-NITROPHENOL	~	~	~		NA	ND (0.64)	ND (0.64)	ND (0.66)	ND (0.63)	ND (0.65)	ND (0.65)
PENTACHLOROPHENOL	3	3	3		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
PHENANTHRENE	10	500	500	20	NA	0.17	0.21	0.28	ND (0.16)	0.21	ND (0.17)
PHENOL	1	50	20		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
PYRENE	1000	1000	1000	20	NA	0.19	0.23	0.27	ND (0.16)	0.21	ND (0.17)
1,2,4-TRICHLOROBENZENE	2	6	700		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
2,4,5-TRICHLOROPHENOL	4	1000	600		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
2,4,6-TRICHLOROPHENOL	0.7	20	20		NA	ND (0.33)	ND (0.33)	ND (0.34)	ND (0.33)	ND (0.34)	ND (0.33)
SW-846 9045C (pH Units)											
PH	~	~	~		NA	11	12	11	11	12	12
NOTES:											
1. ND = Not detected above the lab reporting limits shown in parenthesis.											
2. NT = Not tested.											
3. ~ = No Method 1 Standard or UCL available											
NA = Not Analyzed											
ND (#) = None detected above detection limit given in parenthesis.											