PHASE I ENVIRONMENTAL SITE ASSESSMENT

Subject Property Address

Commercial Property
321 Commercial Ave
Palisades Park, NJ 07650

PROJECT #2129213-PI

Report Date:

August 15, 2014

Prepared for:

New Bank
146-01 Northern Blvd
Flushing, NY 11354

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August 15, 2014

Mr. Yong Sung Park
NewBank
146-01 Northern Blvd
Flushing, NY 11354

Subject: **Phase I Environmental Site Assessment Report**
321 Commercial Ave, Palisades Park, NJ 07650
ODELPHI Project #2129213-PI

Dear Mr. Park:

Attached please find our *Phase I Environmental Site Assessment Report*, (the *Report*) for the above-mentioned Subject Property. During the property investigation and research, our property surveyor met with agents representing the Subject Property, or agents of the owner, and reviewed the property and its history. The *Report* was completed according to the terms and conditions authorized by you. This *Report* has been completed in general conformance with the ASTM Practice E 1527-05.

The purpose of this *Report* is to assist *the lender*, in its transaction of the Subject Property described herein.

The assessment was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession, and in accordance with generally accepted practices of other consultants currently practicing in the same locality under similar conditions. No other representation, expressed or implied, and no warranty or guarantee is included or intended. The Report speaks only as of its date, in the absence of a specific written update of the Report, signed and delivered by ODELPHI.

There are no intended or unintended third party beneficiaries to this Report, unless specifically named. ODELPHI is an independent contractor, not an employee of either the issuer or the borrower, and its compensation was not based on the findings or recommendations made in the Report or on the closing of any business transaction. Thank you for the opportunity to prepare this Report, and assist you with this project. Please call us if you have any questions or if we may be of further assistance.

Respectfully Submitted,

Casey Oh,
Project Manager
Ph. D., CRS, CEM

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EXECUTIVE SUMMARY

The subject property (APN 4500104-00000-00-030001 (321 Commercial Ave, B/L: 104 / 3.01), 4500104-00000-00-03 (329 Commercial Ave, B/L: 104 / 3), 4500107-00000-00-02 (312 Commercial Ave, B/L: 107 / 2), 4500107-00000-00-05 (112 Union St, B/L: 107 / 5), 4500108-00000-00-06 (113 Union St, B/L: 108 / 6), 4500108-00000-00-07 (117 Union St, B/L: 108 / 7)) at 321 Commercial Ave, Palisades Park, NJ 07650 consists of a three-story approximately 18,000 sq. ft. rectangular shaped King Sauna Building consisting of kitchen, dining area, utility rooms, sauna rooms, restrooms, and offices on a 22,000 sq. ft. rectangular shaped lot, a residential dwelling of approximately 3,000 sq. ft. on approximately 8,000 sq. ft. lot, and two parking lot of approximately 25,000 sq. ft. for 321 NJ Commercial Realty, LLC., within Commercial Miscellaneous Zone, situated on the northwestern block of Commercial Ave and along Union St in the Borough of Palisades Park, the County of Bergen, and the State of New Jersey.

The subject King Sauna building had been residential dwellings, warehouse and office building in 1960s according to historical Sanborn Fire Insurance Map. Parking lots along Union St had been residential dwellings, and the residential dwelling on 312 Commercial Ave has been residential dwelling since the construction of the building. The subject property is situated in Commercial Miscellaneous Zone where properties were found to be commercial retail, warehouse and residential buildings. Currently the subject buildings are a sauna building, a residential dwelling, and two parking lots. Sanborn Fire Insurance Map has coverage for the subject area from 1911 to 1968 and depicts the subject property as residential dwellings and warehouse and offices. City Directories does list the subject property as commercial property. Approximately 100% of the property was improved with building and parking lot. Porous surface was not observed.

Overall setting of the vicinity is commercial/residential use such as local road (Commercial Ave) to the southeast and the northwest, local road (Union St) to the southwest and the northeast, office buildings to the southwest and northeast, and residential buildings to the southeast of the subject property.

ODELPHI performed site inspection on August 5, 2014 and observed that the subject property was a sauna and a residential dwelling with two parking lots. The property representative, Mr. Yun Kim, was accompanied site inspection and interviewed. According to Mr. Kim, the subject property used to be a warehouse building prior to the purchase of the property. The current building was converted from a warehouse to a spa/sauna building in 2003. He also stated that the source of heating was gas and HVAC units are on the roof. Mr. Kim stated that the subject property does not pose any environmental concern or hazardous in nature to the general public.

ODELPHI requested the Borough of Palisades Park for the search of public records and filed a request to review records on the subject property. The agency has not responded at the time of this report writing. Any significant finding will be added as an addendum to this report.

The subject property is a sauna building, which sits as a rectangular-shaped building occupying entire frontage toward Commercial Ave and is a three-story building with concrete block structure on concrete slab foundation. It contains kitchen, dining area, utility rooms, sauna rooms, restrooms, and offices with no basement and parking lot. ODELPHI field inspector observed two (2) gas-fired

hot water heater, seven (7) gas-fired furnaces, and ten (10) HVAC systems on the roof. The subject property does not show visual and olfactory concerns. Utilities to the subject property were PSE&G for gas and electric and United Water and Borough of Palisades Park for water and sewer, respectively.

Government environmental records have information on the subject property, which is listed in NJ SHWS and NJ VCP of the government records with active case (# 06-06-13-1522-54) assigned. No information as to environmental quality at the subject site was identified from the lists other than fact that MOA was executed on 12/8/2006. The case was assigned when subsurface impact from historic fill material was identified through geotechnical investigation for renovation and expansion of the sauna in 2006. Sunbeam Consultants LLC performed remedial investigation on behalf of the King Spa Sauna and concluded and recommended to establish Deed Notice as Institutional Control, Remedial Action Permit, and Classification Exception Area (CEA). NJ DEP issued Soil Remedial Action Permit, dated May 20, 2013. Based on the finding, ODELPHI consider the case no Recognized Environmental Condition that warrants further subsurface investigation. Considering its regulatory status and property condition, an adjacent property at 319 Commercial Ave (case # 02-09-13-1519-26) that pose risk of contamination to the subject property was identified. However, regulatory agencies do not hold the subject property owner liable for contamination by off-site migration. Therefore, the risk was mitigated.

ODELPHI's assessment has revealed no Recognized Environmental Condition, but a historical Recognized Environmental Condition in connection with the Subject Property in accordance with ASTM E1527-05 as followed:

- According to an environmental consultant who worked on the case in 2008, the subject property has an on-going case (# 06-06-13-1522-54) with historic fill material. ODELPHI interviewed the project director, Mr. Atiqur Rahman of Sunbeam Consultant, LLC ('Sunbeam'). Mr. Rahman stated that contamination at the subject property pose mitigated risk because it came from historic fill materials and approximately 20 tons of fill material was excavated. Based on the finding, Sunbeam performed remediation action and applied for soil remedial action permit for institutional control for the subject property. NJDEP issued Soil Remedial Action Permit, dated May 20, 2013. Mr. Rahman issued a RAO letter for the subject property (Appendix H).

Considering the historical and the current use of the subject property, no further action or subsurface investigation is recommended based on the historical uses of the subject property due to the minimal risk of contamination at the subject property.

REPORT COMPONENT	RECOMMEDED ACTIONS	ESTIMATED COST
Subject Property Characteristics (Current Tenant or Property Use Concerns)	The subject property had been commercial building since the development of the current structure. No environmentally sensitive business occupies the subject property. No further action.	N/A

Subject Property Reconnaissance	ODELPHI field inspector observed two (2) gas-fired hot water heater, seven (7) gas-fired furnaces, and ten (10) HVAC systems on the roof. The subject property does not show visual and olfactory concerns. No further action	N/A
Potential Asbestos Containing Material (ACM)	None observed (out of scope). No further action.	N/A
Lead-based Paint	None observed (out of scope). No further action.	N/A
Other Non-CERCLA Items	Non-detect	N/A
Historical Use of Subject Property and Vicinity	The subject property had been historically commercial building. No further action	N/A
Potential Off-site Sources	Adjacent properties were appeared to impact the subject property considering their distance, geology, and regulatory status. However, regulatory agencies do not hold the property owner liable for off-site contamination migration. No further action	N/A
Federal, State and Local Agency Concerns	Government environmental records have information on the subject property, which is listed in NJ Release of the government records with active case (# 13-07-05-1240-19) assigned. No information as to environmental quality at the subject site was identified from the list except the release location as manhole and incident type as sewage. Considering its regulatory status, property use and property condition, ODELPHI do not consider the listing a Recognized Environmental Condition that warrant further investigation. No further action	N/A

INACCESSIBLE OR UN-SURVEYED PORTIONS OF SUBJECT PROPERTY

There were no other notable portions of the Subject Property excluded from this survey.

1.0 SCOPE OF WORK & LIMITATIONS

The primary purpose of this *Phase I Environmental Site Assessment Report (the Report)* is to assist Client, in its underwriting of a proposed mortgage loan on the Subject Property, and to identify *recognized environmental conditions* in connection with the Subject Property described in this *Report*. The investigation was prepared in accordance with the Clients' Environmental Site Assessment scope of work for the use and benefit of the Client, it's successors, and assignees and US SBA if financing is to be authorized by US SBA. It is based, in part, upon documents, writings, and information owned, possessed, or secured by the Client. Neither this report, nor any information contained herein shall be used or relied upon for any other person or entity without the express written permission of the Client.

This report has been prepared by ODELPHI for the Client under the professional supervision of the principal and/or senior staff whose seal(s) and signatures appear hereon. Neither ODELPHI, nor any staff member assigned to this investigation has any interest or contemplated interest, financial or otherwise, in the subject or surrounding properties, or in any entity which owns, leases, or occupies the subject of surrounding properties or which may be responsible for environmental issues identified during the course of this investigation, and has no personal bias with respect to the parties involved.

ODELPHI's liability to Client or any other person or entity with the express written permission of the Client wishing to use this *Report* is limited to the cost of the *Report*. Amendments to ODELPHI's limitations as stated herein that may occur after issuance of the *Report* are considered to be included in this *Report*. Payment for the *Report* is made by, and ODELPHI's contact and *Report* extends to *Client* only, in accordance with our Standard Conditions For Engagement, Authorization Letter and Agreement for Environmental Services.

The additional purpose of this *Report* is to assess a parcel of real estate with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. As such, this practice is intended to permit Client to satisfy one of the requirements to qualify for the innocent landowner defense to CERCLA liability: that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the property consistent with good Industrial or customary practice" as defined in 42 USC § 9601(35)(B).

In defining a standard of good Industrial and customary practice for conducting an environmental site assessment of a parcel of property, the goal of the processes established by this practice is to identify recognized environmental conditions. The term recognized environmental conditions (RECs) means the present or likely presence of any hazardous substance or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to de minimis conditions that generally do not present a material risk of harm to public health or the environmental and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not RECs.

ODELPHI has performed this Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05.

SCOPE OF WORK

This Report was prepared for the exclusive use of Client. This Report has been prepared in accordance with our Standard Conditions For Engagement and Authorization Letter and Agreement for Environmental Services approved and signed by Client, and with the limitations described below, all of which are integral parts of this Report. A copy of the signed Standard Conditions For Engagement and Authorization Letter and Agreement for Environmental Services is maintained at the ODELPHI Environmental, Inc., Orange, New Jersey office.

The information reported was obtained through sources deemed reasonably ascertainable, as defined in ASTM E 1527-05; a visual site survey of areas readily observable, easily accessible or made accessible by the property contract and interviews with owners, agents, occupants, or other appropriate persons involved with the Subject Property. Municipal information was obtained through file reviews of reasonably ascertainable standard government record sources, and interviews with the authorities having jurisdiction over the property. Findings, conclusion and recommendations included in the Report are based on our visual observations in the field, the municipal information reasonably obtained, information provided by the Client, and/or a review of readily available and supplied documents. ODELPHI renders no opinion as to the property condition at un-surveyed and /or inaccessible portions of the Subject Property, which are described below. ODELPHI relies completely on the information, whether written, graphic or verbal, provided by the property contact or as shown on any documents reviewed or received from the property contact, owner or agent, or municipal source, and assumes that information to be true and correct. The observations in this Report are valid on the date of the survey. ODELPHI uses the reported date of construction to establish the Subject Property age.

The observations in this Report are valid on the date of the investigation. Where access to portions of the Subject Property or to structures on the Subject Property was unavailable or limited, ODELPHI renders no opinion as to the presence of petroleum products or hazardous substances in that portion of the Subject Property or structure. In addition, ODELPHI renders no opinion as to the presence of, or indirect evidence relating to, petroleum products or hazardous substances where direct observation of the interior walls, floor, or ceiling of a structure was obstructed by objects or coverings on or over theses surfaces.

The conclusions provided by ODELPHI are based on the information obtained by visual survey of the Subject Property, and information provided by agents representing the Subject Property, or agents of the owner. In addition, ODELPHI has relied on certain information provided by state and other referenced parties, and on information contained in the files of federal, state and/or local agencies available to ODELPHI at the time of the assessment. Although there may have been some degree of overlap in the information provided by these various sources, ODELPHI did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of these *Environmental Services*.

It is acknowledged that ODELPHI judgments shall not be based on scientific or technical tests or procedures beyond the scope of the Services or beyond the time and budgetary constraints imposed by the Client. It is acknowledged further that ODELPHI conclusions shall not rest on pure science but on such considerations as economic feasibility and available alternatives. Client also acknowledges that, because geologic and soil formations are inherently random, variable, and indeterminate in nature, the Services and opinions provided under this Agreement with respect to such Services, are not guaranteed to be a representation of actual conditions on the Subject Property, which are also subject to change with time as a result of natural or man-made processes, including water permeation. In performing the Services, ODELPHI shall use that degree of care and skill ordinarily exercised by environmental consultants or engineers performing similar services in the same or similar locality. The standard of care shall be determined solely at the time the Services are rendered and not according to standards utilized at a later date. The Services shall be rendered without any other warranty, expressed or implied, including, without limitation, the warranty of merchantability and the warranty of fitness for a particular purpose.

Client and ODELPHI agree that to the fullest extent permitted by law, ODELPHI shall not be liable to Client for any special, indirect or consequential damages whatsoever, whether caused by ODELPHI'S negligence, errors, omissions, strict liability, breach of contract, breach of warranty or other cause of causes whatsoever.

The ASTM Standard E1527-05 does not encompass analytical testing to evaluate Asbestos Containing Materials (ACM), radon, lead-based paint (LBP), drinking water quality, indoor air quality, stored chemicals, debris, fill materials, surface water, or subsurface samples (soil and groundwater) as part of a Phase I ESA. Such additional information of non-ASTM 1527-05 are merely extra contents, and cannot be used to bind this report as a whole to the compliance and conformance to ASTM guideline. *No disassembly of systems or building components or physical or invasive testing is to be performed unless Contract Engagement specifically called for such testing as an additional scope of work.* ODELPHI has performed this *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527-05. *This Report* may not include all environmental conditions which can materially impact the subject property other than those defined as REC in ASTM E1527-05.

The assessment was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession, and in accordance with generally accepted practices of other consultants currently practicing in the same locality under similar conditions. No other representation, expressed or implied, and no warranty or guarantee is included or intended. The *Report* speaks only as of its date, in the absence of a specific written update of the Report, signed and delivered by ODELPHI.

Additional information that becomes available after our survey and draft submission concerning the Subject Property should be provided to ODELPHI so that our conclusions may be revised and modified if necessary, at additional cost. This *Report* has been prepared in accordance with our *Standard Conditions for Engagement*, which is an integral part of this *Report.*

Adjoining sites, neighboring sites or surrounding properties mentioned in this report are defined only up to one parcel immediately next to the subject property, and ODELPHI will only check

immediately adjoining properties to identify historical use of the surrounding areas via historical source or data on such adjoining properties, and/or walk-through along subject property's perimeters to find obvious signs of environmental concerns.

It is often not possible (under "reasonably ascertainable" clause of ASTM guideline) to identify every single historical business tenants or occupants on the subject property. ODELPHI cannot be liable for not identifying all such past tenants or occupants of the project site.

INDEPENDANT CONTRACTOR STATUS

In performing Services under the mutually agreed contractual agreement and verbal engagement, ODELPHI shall operate as, and have the status of, an independent contractor.

PROFESSIONAL RESPONSIBILITY

Subject to any limitations established by the Client as to the degree of care and amount of time and expenses to be incurred and any other limitations contained in the mutually agreed contractual agreement and verbal engagement, ODELPHI shall perform the Services consistent with that level of care and skill ordinarily exercised by other professional consultants under similar circumstances at the time the Services are performed. Client hereby acknowledges that whenever a Project involves hazardous or toxic materials there are certain inherent risk factors involved (such as limitations on laboratory analytical methods, variations in subsurface conditions, economic loss to Client or property owner, a potential obligation for disclosure to regulatory agencies, a potential for a decrease in market value of real property, and the like) that may adversely affect the results of the Project, even though the Services are performed with such skill and care. No other representation, warranty, or guarantee, express or implied, is included or intended by the mutually agreed contractual agreement and verbal engagement.

LIMITATION OF LIABILITY

Client agrees that the liability of ODELPHI and all officers, employees, agents, and subcontractors of ODELPHI (the "ODELPHI Parties") to Client for all claims, suits, arbitration, or other proceedings arising from the performance of the Services under the mutually agreed contractual agreement and verbal engagement, including, but not limited to, ODELPHI's professional negligence, errors and omissions, or other professional acts, shall be limited to the Fee amount. ODELPHI Parties are not liable for any indirect, incidental or consequential damages, lost profits, lost revenue, or loss of property value based on the Services provided as part of the mutually agreed contractual agreement and verbal engagement.

ABBREVIATIONS

ODELPHI may use various abbreviations to describe various site, building or system components or legal descriptions. Not all abbreviations may be applicable to all reports. The abbreviations most often utilized are defined below.

ACM	Asbestos-containing material
ACT	Acoustic Ceiling Tile
ADA	Americans with Disabilities Act
AHU	Air Handling Unit
APA	American Plywood Association
APCD	Air Pollution Control District
AQMD	Air Quality Management District
AS	Air Sparging
AST	Aboveground storage tank
ASTM	American Society for Testing and Materials
bgs	Below Ground Surface
BOD	Biochemical oxygen demand
BTEX	Benzene-toluene-ethylbenzene-xylene
BTU	British Thermal Unit (a measurement of heat)
BTUH	British Thermal Units per Hour
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
CMU	Concrete Masonry Unit
COCs	Chemicals of Concern
DEC	Department of Environmental Conservation (NY)
DEP	Department for Environmental Protection (NJ, NYC)
DEQ	Department of Environmental Quality
DOE	Department of Ecology (WA)
DTSC	Department of Toxic Substance Control (CA)
EIFS	Exterior Insulating Finishing System
EP	Extraction procedure
EPA	Environmental Protection Agency
EPDM	Ethylene Propylene Diene Monomer (rubber membrane roof)
EUL	Expected Useful Life, Effective Useful Life
FCU	Fan Coil Unit
FEMA	Federal Emergency Management Agency
FHA	Forced Hot Air
FHW	Forced Hot Water
FID	Flame ionization detector
FIRM	Flood Insurance Rate Map
FOIA	Freedom Of Information Act
FRT	Fire retardant treated plywood
GC/MS	Gas chromatography/mass spectrometry
GFI	Ground Fault Interrupt (circuit)
GPR	Ground-penetrating radar
GWB	Gypsum Wall Board
HCP	Handicapped Person
HID	High Intensity Discharge (lighting)
HVAC	Heating, Ventilating and Air Conditioning
HWH	Hot Water heater
LBP	Lead-based paint
LDL	Laboratory Detection Limit
LEL	Lower explosive limit
LUST	Leaking underground storage tank
MCL	Maximum contaminant level
MDP	Main Distribution Panel
mg/L	Milligrams per Liter
MSDS	Material safety data sheet
MSSL	Maximum Soil Concentration Limit
MTBE	Methyl Tertiary Butyl Ether
NFA	No Further Action (letter)
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
O&M	Operating and maintenance
OVA	Organic vapor analyzer
PCB	Polychlorinated biphenyl
PEC	Potential Environmental Concerns
PEL	Permissible airborne exposure level
PID	Photoionization detector
POTW	Publicly owned treatment works
ppb	Parts per Billion
ppm	Parts per Million
PRG	Preliminary Remedial Goal
PRP	Potentially responsible parties
PTAC	Packaged Through-wall Air Conditioning (Unit)
QAQC	Quality assurance Quality control
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
REC	Recognized environmental condition
RI/FS	Remedial Investigation & Feasibility Study
RQ	Reportable quantity
RTU	Roof Top Unit
RWQCB	Regional Water Quality Control Board (CA)
SPCC	Spill Prevention Control and Countermeasure Plan
SQG	Small quantity generator
SVE	Soil Vapor Extraction
SVOC	Semi-Volatile organic compound
SWRCB	State Water Resource Control Board (CA)
TAT	Turn-around time
TCEQ	Texas Commission of Environmental Quality (TX)
TCLP	Toxicity characteristic leaching procedure
TOC	Total organic carbon
UBC	Uniform Building Code
UEL	Upper explosive limit
ug/L	Micrograms per Liter
USGS	United States Geological Survey
UST	Underground storage tank
VAV	Variable Air Volume box
VCT	Vinyl Composition Tile
VOC	Volatile organic compound
VWC	Vinyl Wall Covering

1.1. AUL SEARCH AND REVIEW OF LAND TITLE RECORDS

The information reported herein was obtained through sources deemed reliable, a visual site survey of areas readily observable, easily accessible or made accessible by the property contact and interviews with owners, agents, occupants, or other appropriate persons involved with the Subject Property.

Under ASTM E1527-05, Section 6 – User Responsibilities – User ("Client, Lender, Purchaser, Owner") has to search for environmental liens in the Land Title Records. This is a mandatory requirement in order to get the CERLCA protections under ASTM E1527-05 and All Appropriate Inquiries.

According to ASTM E1527-05, search for environmental liens and AULs from review of Land Title Records shall be performed by the *user ("Client, Lender, Purchaser")* that will help identify the possibility of *recognized environmental conditions* in connection with the *property*. These tasks do not require the technical expertise of an *environmental professional* and are generally not performed by *environmental professionals* performing a *Phase I Environmental Site Assessment*. We understand that as our standard procedure, customer has completed *User* Questionnaire to assist the *user* and ODELPHI Environmental in gathering information from the *user* that may be material to identifying *recognized environmental conditions*.

Review Title and Judicial Records for Environmental Liens or Activity and Use Limitations (AULs)—Reasonably ascertainable recorded land title records and lien records that are filed under federal, tribal, state, or local law should be reviewed to identify *environmental liens* or *activity and use limitations*, if any, that are currently recorded against the *property*. *Environmental liens* and *activity and use limitations* that are imposed by judicial authorities may be recorded or filed in judicial records, and, where applicable, such records should be reviewed. Any *environmental liens* or *activity and use limitations* so identified shall be reported to ODELPHI Environmental conducting a *Phase I Environmental Site Assessment*.

Unless added by a change in the scope of work to be performed by ODELPHI Environmental, this practice does not impose on ODELPHI the responsibility to undertake a review of *recorded land title records* and judicial records for *environmental liens* or *activity and use limitations*. The *user* should either *(1)* engage a title company or title professional to undertake a review of *reasonably ascertainable recorded land title records* and lien records for *environmental liens* or *activity and use limitations* currently recorded against or relating to the *property*, or *(2)* negotiate such an engagement of a title company or title professional as an addition to the scope of work to be performed by ODELPHI.

CLIENT-PROVIDE INFORMATION

According to ASTM Standards E-1527-05 and the USEAP AAIs, in order to qualify for the Land-owner Liability Protection (LLPs) offered by the Small Business Liability Relief and Brownfield's Revitalizations Act of 2001, User must provide the following information (if available) to the

environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

USER QUESTIONNAIRE for AUL

In order to qualify for one of the *Landowner Liability Protections (Landowner Liability Protections*, or *LLPs*, is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability* ("*Common Elements*" Guide) issued on March 6, 2003.) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"), the *user* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

USER/CUSTOMER QUESTIONNAIRE	
QUESTION	CUSTOMER TO ANSWER
(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25). Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?	No
(2.) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). Are you aware of any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?	No
(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). As the *user* of this *ESA* do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?	Yes
(4.) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?	N/A

(5.) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30). Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *user*, (a.) Do you know the past uses of the *property*? (b.) Do you know of specific chemicals that are present or once were present at the *property*? (c.) Do you know of spills or other chemical releases that have taken place at the *property*? (d.) Do you know of any environmental cleanups that have taken place at the *property*?	a) Yes b) No c) No d) Yes
(6.) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). As the *user* of this *ESA*, based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*?	No

ADDITIONAL USER QUESTIONNAIRE

In addition, certain information should be collected by the User, if available, and provided to the *environmental professional* selected to conduct the Phase I. This information is intended to assist the *environmental professional* but is not necessarily required to qualify for one of the *LLPs*. The information includes:

USER QUESTIONNAIRE	
QUESTION	ANSWER
(a) the reason why the Phase I is required	Mortgage Loan
(b) the type of *property* and type of *property* transaction	commercial building, Re-finance
(c) the complete and correct address for the *property* (a map or other documentation showing *property* location and boundaries is helpful)	321 Commercial Ave, Palisades Park, NJ 07650
(d) the scope of services desired for the Phase I (including whether any parties to the *property* transaction may have a required standard scope of services on whether any considerations beyond the requirements of Practice E 1527-05 are to be considered)	Due diligence (ASTM 1527-05)
(e) identification of all parties who will rely on the Phase I *report*	321 NJ Commercial Realty, LLC., NewBank
(f) identification of the site contact and how the contact can be reached	Mr. Yun Kim, [redacted]

(g) any special terms and conditions which must be agreed upon by the *environmental professional*	No
(h) any other knowledge or experience with the *property* that may be pertinent to the *environmental professional* (for example, copies of any available prior *environmental site assessment reports*, documents, correspondence, etc., concerning the *property* and its environmental condition)	No

User that provides above information: Mr. Yun Kim _____

2.0 SUBJECT PROPERTY CHARACTERISTICS

2.1 PROJECT INFORMATION & PROPERTY LOCATION

ITEM	PROJECT INFORMATION
ODELPIII Project Number	2129213-PI
Client Project Number	N/A
Subject Property Address	321 Commercial Ave, Palisades Park, NJ 07650
Subject Property Name	King Sauna
Property Inspection Date	August 5, 2014
Environmental Assessor's Name	Casey Oh, Certified Environmental Engineer
QAQC Reviewer's Name	Casey Oh, Certified Environmental Assessor

The subject property (APN 4500104-00000-00-030001 (321 Commercial Ave, B/L: 104 / 3.01), 4500104-00000-00-03 (329 Commercial Ave, B/L: 104 / 3), 4500107-00000-00-02 (312 Commercial Ave, B/L: 107 / 2), 4500107-00000-00-05 (112 Union St, B/L: 107 / 5), 4500108-00000-00-06 (113 Union St, B/L: 108 / 6), 4500108-00000-00-07 (117 Union St, B/L: 108 / 7)) at 321 Commercial Ave, Palisades Park, NJ 07650 consists of a three-story approximately 18,000 sq. ft. rectangular shaped King Sauna Building consisting of kitchen, dining area, utility rooms, sauna rooms, restrooms, and offices on a 22,000 sq. ft. rectangular shaped lot, a residential dwelling of approximately 3,000 sq. ft. on approximately 8,000 sq. ft. lot, and two parking lot of approximately 25,000 sq. ft. for 321 NJ Commercial Realty, LLC., within Commercial Miscellaneous Zone, situated on the northwestern block of Commercial Ave and along Union St in the Borough of Palisades Park, the County of Bergen, and the State of New Jersey.

2.2 PROPERTY IMPROVEMENT & BUILDING/LAND DESCRIPTION

The subject King Sauna building had been residential dwellings, warehouse and office building in 1960s according to historical Sanborn Fire Insurance Map. Parking lots along Union St had been residential dwellings and the residential dwelling on 312 Commercial Ave has been residential dwelling since the construction of the building. The subject property is situated in Commercial Miscellaneous Zone where properties were found to be commercial retail, warehouse and residential buildings. Currently the subject buildings are a sauna building, a residential dwelling, and two parking lots. Sanborn Fire Insurance Map has coverage for the subject area from 1911 to 1968 and depicts the subject property as residential dwellings and warehouse and offices. City Directories does list the subject property as commercial property. Approximately 100% of the property was improved with building and parking lot. Porous surface was not observed.

Overall setting of the vicinity is commercial/residential use such as local road (Commercial Ave) to the southeast and the northwest, local road (Union St) to the southwest and the northeast, office buildings to the southwest and northeast, and residential buildings to the southeast of the subject property.

The subject property is a sauna building, which sits as a rectangular-shaped building occupying entire frontage toward Commercial Ave and is a three-story building with concrete block structure on concrete slab foundation. It contains kitchen, dining area, utility rooms, sauna rooms, restrooms, and offices with no basement and parking lot. ODELPHI field inspector observed two (2) gas-fired hot water heater, seven (7) gas-fired furnaces, and ten (10) HVAC systems on the roof. The subject property does not show visual and olfactory concerns. Utilities to the subject property were PSE&G for gas and electric and United Water and Borough of Palisades Park for water and sewer, respectively.

The subject properties are measured by ODELPHI to be approximately 50,000 SF rectangular-shaped lands. Reported zoning is under Commercial Miscellaneous Zone.

2.3 CURRENT OCCUPANTS & USE OF THE PROPERTY

ITEM	
Present Occupant/Business Operation	King Sauna
Number of Occupants/Units	1

2.4 MUNICIPAL SERVICES & UTILITIES

ITEM	
Portable Water	Borough of Palisades Park (Municipality)
Gas/Oil Source for Heating	PSE & G (Public Utility) / Natural gas / Heating oil
Electrical	PSE & G
Sewage Disposal System	Borough of Palisades Park (Municipality)
Solid Waste Disposal	Borough of Palisades Park (Municipality)

3.0 SUBJECT PROPERTY RECONNAISSANCE

3.1 LIMITING CONDITIONS

The information reported herein was obtained through sources deemed reliable, a visual site survey of areas readily observable, easily accessible or made accessible by the property contact and interviews with owners, agents, occupants, or other appropriate persons involved with the Subject Property.

No disassembly of systems or building components or physical or invasive testing was performed. ODELPHI renders no opinion as to the property condition at un-surveyed and/or inaccessible portions of the Subject Property. ODELPHI relies completely on the information, whether written, graphic or verbal, provided by the property contact or as shown on any documents reviewed or received from the property contact, owner or agent, or municipal source, and assumes that information to be true and correct. The observations in this Report are valid on the date of the survey.

The contents of the Report are not intended to represent an in-depth analysis of the Subject Property. The extent of the physical inspection for the production of this Report has been limited, by contract and agreed upon Scope of Work, to a brief "walk through" of the property. Assumptions regarding the overall condition of the property have been developed based upon a survey of "representative" areas of the building.

3.2 SUBJECT PROPERTY RECONNAISSANCE

SUBJECT PROPERTY RECONNAISSANCE		
ITEM	NOTED	LOCATION AND DESCRIPTION
Processes that generate or handle Petroleum Products or Hazardous Substances		None observed
Underground Storage Tank		None observed
Aboveground Storage Tank		None observed
Fuel Islands / Dispensers		None observed
Any type of fueling systems		None observed
Containers of Hazardous Material & Petroleum Products related to subject operation/process		None observed
Other containers of suspicious hazardous materials in drums, barrels, or other storage or unlabeled/unidentified containers on site		None observed
Containers not attributed to current use of the Subject Property		None observed
Surface staining either on unpaved or paved land		None observed
Areas of asphalt patch or surface depressions		None observed
Stockpiled Soils with visual contamination		None observed

Fill material of questionable origin/ Piles		None observed
Stressed vegetation		None observed
Any type of heavy equipments or machinery of environmental concern on site		
Hydraulic equipment or machine of environmental concern (PCB-oil / hydraulic oil) such as hydraulic lift, compactor		None observed
Drains for Machinery/Equipment Cleaning or Flushing		None observed
Wastewater Treatment Units & Clarifiers		None observed
Pools of liquid		None observed
Drains and Sumps	✔	Drains in the kitchen were noted with no visual concern.
Any regulated surface wastewater discharges		None observed
Storm water or surface-water drainage system having any abnormal accumulation of petroleum or chemical run-off or foreign materials, any unusual blockage of the storm-water control system		None observed
Any stained catch basins, drip pads, or sumps		None observed
Visual indication of Herbicides & Pesticides use to pose environmental concern		None observed
Visual evidence of leak or contamination from septic systems or Cesspools		None observed
Wells (any irrigation wells, injection wells, abandoned wells, groundwater-monitoring wells, dry wells, septic wells, oil wells, gas wells, domestic water wells, vapor wells or other-monitoring wells)		None observed
Railroad tracks or spurs		None observed
Visual evidence of improper handling / disposal or solid wastes		None observed
Other visual evidence of spills, leakage, staining, corrosion, soil/groundwater contamination		None observed

3.3 DETAILED DESCRIPTION OF ANY RECONNAISSANCE ITEMS OF CONCERN

ODELPHI performed site inspection on August 5, 2014 and observed that the subject property was a sauna and a residential dwelling with two parking lots. The property representative, Mr. Yun Kim, was accompanied site inspection and interviewed. According to Mr. Kim, the subject property used to be a warehouse building prior to the purchase of the property. The current building was converted from a warehouse to a spa/sauna building in 2003. He also stated that the source of heating was gas

and HVAC units are on the roof. Mr. Kim stated that the subject property does not pose any environmental concern or hazardous in nature to the general public.

3.4 BUSINESS ENVIRONMENTAL RISK

Business Environmental Risk is defined as a risk, which can have material environmental impact, or environmentally driven impact on the business associated with the current or planned use of a parcel of Industrial real estate, not necessarily limited to the issues requiring investigation. Activity and Use Restriction arising from Business Environmental Risk or Compliance Violation is defined as restrictions on the use of, or access to, a site/facility to (1) reduce or eliminate exposure to hazardous substance onsite, or (2) prevent activities that could interfere with a response action either as Engineering Controls or Institutional Controls. ODELPHI also searched for compliance records, permits and plans, etc. in relation to the subject business operation in the past and presence, which includes but not limited to, Environmental Permits, Equipment Operation Permits, NPDES, Hazardous Material/Waste Inventory or Management Plans, etc., Non-Compliance, Violation, Notices, Correspondences, Community Right-to-Know Plan, Health & Safety Plan, IIPP, SPCC, MSDS, Waste Ticket, Generator ID, etc.

Business environmental risk was not observed at the subject property.

3.5 NON-CERCLA ITEMS

The following table summarizes issues on which the survey of interior areas of the Subject Property focused:

NON-CERCLA ITEMS		
ITEM	NOTED	LOCATION AND DESCRIPTION
Suspicious asbestos-containing materials in damaged condition if the structure is built prior to 1978		None observed
Suspicious lead-based paint in damaged condition if the structure is built prior to 1978		None observed
Lead in drinking water		N/A
Radon gas concern		N/A
Visual evidence of Urea Formaldehyde		N/A
Suspicious PCB-oil concern with hydraulic equipment, ballasts, transformers, etc.		None observed
Wetland, creeks, swale, pits, ponds, lagoons, or any other water bodies		N/A
Visual evidence of mold problems from wet areas, roof leaks, moisture around air conditioning or plumbing units		None observed
Air quality problems (unusual smells, obnoxious odors, or visual emissions, air emission stacks)		N/A
Is the property under flood zone (Federal		N/A

Emergency Management Agency Flood Insurance Rate Map)		

3.5.1 Asbestos-Containing Material (ACM)

The use of asbestos in many building products was banned by the U.S. Environmental Protection Agency (EPA) by the late 1970s. In 1989, EPA issued a ruling prohibiting the manufacturing, importation, processing, and distribution of most asbestos containing products. This rule, known as the Ban & Phase-Out Rule, would have effectively banned the use of nearly 95% of all asbestos products used in the United States. However, the U.S. 5th Circuit Court of Appeals vacated and remanded most of the Ban and Phase Out Rule in October 1991. Due to this court decision, many asbestos containing product categories not previously banned (prior to 1989) may still be in use today.

Asbestos-containing material (ACM) represents a concern when it is subject to damage that results in the release of fibers. Friable ACM, which can be crumbled by hand pressure and is therefore susceptible to damage, is of particular concern. Non-friable ACM is a potential concern if it is damaged by maintenance work, demolition or other activities.

Asbestos for Industrial use was banned by federal government in 1978. In general, although asbestos-containing materials may be present in the building materials, so long as they would be in an undisturbed state without disturbances or dismantlement, such ACM's do not pose an immediate health risk to building occupants. Local Building & Safety Department and appropriate Air Quality Management District (AQMD) require all possible asbestos-containing materials (ACM's) to be identified and removed in the case of renovation or construction of existing structure which might disturb or dismantle the suspicious ACM's.

If it is found that asbestos is contained within subject building materials through comprehensive asbestos survey, the implementation of an Asbestos Operations and Maintenance Program shall be developed, in order to ensure the safety of occupants who may be exposed to potential asbestos hazards.

An AHERA Certified Inspector or a State Certified Asbestos Consultant can perform the asbestos survey involving bulk sampling and analysis at NIST/NVLAP accredited laboratory using Polarized Light Microscopy with Dispersion Station (PLM/DS) in accordance with the Environmental Protection Agency (EPA) "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" (EPA-600-M4-82-020).

Asbestos-containing material (ACM) represents a concern when it is subject to damage that results in the release of fibers. Friable ACM, which can be crumbled by hand pressure and is therefore susceptible to damage, is of particular concern. Non-friable ACM is a potential concern if it is damaged by maintenance work, demolition or other activities.

Prior to demolition of the subject building, asbestos survey and abatement of identified ACMs prior to demolition shall be conducted in accordance with AQMD Rule 1403 and demolition codes of regulation.

No prior reports, records of testing or known listings of ACM at the Subject Property were provided to ODELPHI. Based upon non-residential use of the Subject Property, ODELPHI is not contracted to perform ACM survey at the subject property, thus it is beyond the scope of the service included in this report.

However, ACM-like material was observed in the Supermarket and storage area. It appeared to be in good shape. However, for any renovation to the area where ACM-like material was observed, it is recommended to consult with environmental professional.

3.5.2 Lead-Based Paint (LBP)

In 1978, the federal government banned the use of lead-based paint in residential applications; however, usage in general industry continued at a decreased rate to the present. Due to the dangers of lead poisoning, the Consumer Product Safety Commission banned the sale of lead-based paint (LBP), defined as containing more than 0.06% lead by weight, to consumers, and the use of LBP in residences and other areas where consumers have direct access to painted surfaces. Effective June 3, 1993, the Lead in Construction Standard codified in 29 CFR (Code of Federal Regulations) 1926.62 applies to sources or potential sources of lead exposure present in an "employment-related" context. Federal regulations specify that lead paint hazards must be abated in residential buildings occupied by children under the age six.

The trigger mechanism for application of the standard is an activity that, by its inherent nature, may cause exposure to lead. Therefore, within the context of regulatory compliance for OSHA (Occupation Safety and Health Agency), the subject property did not appear to require further response to suspect lead-based paint as no on-site activity by its inherent nature would cause exposure to lead.

Lead-based paint presents a hazard through inhalation or ingestion of paint chips or vapor fumes. The greatest cumulative health threat is to young children, and for this reason the Department of Housing and Urban Development (HUD) has promulgated lead standards and survey requirements for buildings affected by HUD funding. This HUD regulation represents the only federal requirement for lead-based paint, hazard management applicable to privately owned structures. Based upon non-residential use of the Subject Property, ODELPHI is not contracted to perform LBP survey at the subject property, this it is beyond the scope of the service included in this report

3.5.3 Lead in Drinking Water

Lead has historically been used in pipes, solder, and brass fixtures used in water distribution systems and plumbing material. In 1986, EPA banned the use of lead at concentrations exceeding 0.2% lead in solder and 8% lead in other plumbing material. Based upon non-residential use of the Subject Property, ODELPHI is not contracted to perform the testing of lead content in water at the subject property, this it is beyond the scope of the service included in this report.

Newly installed UF foam insulation often releases the gas-phase UF for six to twelve months. Such volatilized gases can concentrate in the internal air of a building. While no evidence of UF foam

insulation was observed during the subject property reconnaissance, the potential for UF on the site is presumed low. ODELPHI is not contracted to perform the testing of formaldehyde level on the subject property, this it is beyond the scope of the service included in this report.

3.5.4 Radon

Radon is a naturally occurring, colorless and odorless radioactive gas that is generated primarily in granitic rocks. The United States Surgeon General has published information that radon is a major cause of lung cancer. Radon usually enters a building through openings in the foundation, and therefore is a potential health concern to occupants of the lowest level of a building with inadequate ventilation. Radon sources can be found from earth and rock beneath building structures, well water, and building materials themselves. Though there is no immediate health effect, it is believed to account for approximately 10% of lung cancer deaths in the United States. Estimated national average is 1.5 picocuries per liter of air, however, levels as high as 200 picocuries per liter in some Industrial buildings can be found. USEPA and State Department of Health Services' Radon Survey Interim Results report show different U.S. regions according to general geological and climate information.

If a property region reportedly has radon concentration below 4 picocuries per liter of air in 99.5% of homes within the region, then, it is not likely impacted by the presence of radon gas, considering EPA action limit of 4 picocuries per liter of air volume. However, when your premises are tested for radon level and have high level of radon reading, seek proper measures such as increase in ventilation, installation of heat exchanger or heat recovery ventilator, or sealing of cracks and other openings in basement floor. Usual methods of radon testing involve charcoal canisters at HVAC systems or lowest livable level of the subject building. Based upon non-residential use of the Subject Property, ODELPHI is not contracted to perform Radon testing at the subject property, this it is beyond the scope of the service included in this report.

3.5.5 Potential Impact of Urea Formaldehyde

Formaldehyde, by itself, or in combination with other chemicals, serves a number of purposes in manufactured products. It had been widely used to add permanent press qualities to clothing and draperies, as a component of glues and adhesives, and as a preservative in some paints and coating products. In Industrial buildings, the most significant sources of formaldehyde are pressed wood products made using adhesives that contain ureaformaldehyde (UF) resins, such as particleboard, hardwood plywood paneling, and medium density fiberboard. As a colorless, pungent-smelling gas, Formaldehydes can cause sensations in the mucous membrane and difficulty in breathing which could lead to asthmatic attack.

Newly installed UF foam insulation often releases the gas-phase UF for six to twelve months. Such volatilized gases can concentrate in the internal air of a building. No evidence of UF foam insulation was observed during the subject property reconnaissance. The potential for UF on the site is presumed low. ODELPHI is not contracted to perform the testing of formaldehyde level on the subject property, thus the delineation of its level is beyond the scope of the service included in this report.

3.5.6 Polychlorinated Biphenyls (PCBs) Equipment

Prior to 1978, PCBs were commonly used in dielectric fluids in transformers, capacitors, and light ballasts due to their desirable thermal characteristics, and hydraulic fluid compactor. Due to their demonstrated toxicity and persistence in the environment, PCB manufacturing in the United States was discontinued. By 1986, the US EPA required that Industrial property owners with transformers containing more than 500 ppm PCBs must register the transformer with the local fire department, provide exterior labeling, and remove combustible materials within 5 meters (40 CFR 760.30). The US EPA has three different categories for PCB-containing transformers such as non-PCB containing transformer, if less than 50 ppm PCB, PCB-contaminated transformer, if between 50 and 499 ppm of PCB, and it must conform to the US EPA Fire Rule for disposal, and PCB-transformer, if greater than 500 ppm of PCB.

No PCB-containing light ballasts were inspected, which operate fluorescent light fixtures. Separate survey of PCB's on existing light ballasts can only determine the content, unless such ballasts contained in the fluorescent light fixtures are labeled with "no PCB". Prior to construction or any disturbances to the existing light fixtures, PCB ballasts survey has to be performed for any building structure constructed prior to 1978, and identified PCB-ballasts shall properly be disposed of by incineration or recycled within authorized facilities. ODELPHI is not contracted to perform the testing of PCB contents in suspicious fixtures and equipments on the subject property, thus the delineation of its level is beyond the scope of the service included in this report.

3.5.7 Pits, Ponds, Lagoons

No visible evidence of wetlands such as pits, ponds, lagoons, or any other water bodies were observed within the subject property's boundary lines.

Wetlands identification of the property is not part of an ASTM 1527-05 Phase I. ODELPHI is not contracted to perform the identification of wetlands on the subject property, thus the delineation of its level is beyond the scope of the service included in this report. However, wetlands on the property may reduce the allowable footprint that could be developed, which significantly changes the economics of the project. Wetlands are lands where saturation with water is the dominant factor determining the nature of soil development and the types of plants and animal communities living in the soil and on its surface. Wetlands can be further defined through classification according to the length of time that an area is inundated or saturated by water, and the type of plants and animals an area supports. There are five major wetland classifications: marine, estuarine, lacustrine, riverine, and plaustrine. Marine and estuarine wetlands are associated with the Essex and include coastal wetlands, such as tidal marshes. Lacustrine wetlands are associated with lakes, while riverine wetlands are found along rivers and streaMr. Plaustrine wetlands may be isolated or connected wet areas and include marshes, swamps, vernal pools, and bogs.

Pits, ponds and lagoons are often associated with the disposal of solid and liquid wastes, which may include hazardous materials. The Clean Water Act (1972), Section 404, establishes federal authority to regulate activities in wetlands, and US Department of Fish and Game mapping resources are often used for geographic wetland identification.

3.5.8 Mold (Fungi, Bacteria)

The presence of mold and mildew in residential and Industrial buildings is causing a surge of interest amongst building owners, architects, engineers and contractors regarding its source and consequences. In general, mold is a subset of the fungi family. Fungi are common and found in most ecosysteMr. Fungi is needed to help recycle organic material to sustain plant and animal life. In order to reproduce, mold release tiny spores into the air, which eventually attach onto surfaces favorable for growth. A class of fungi, molds have been found to cause a variety of health pSchoojacherichms in humans, including allergic, toxicological, and infectious responses. Molds are decomposers of organic materials, and thrive in humid environments, and produce spores to reproduce as plants produce seeds. When mold spores land on a damp spot indoor, they may begin growing and digesting whatever they are growing on in order to survive. When excessive moisture or water accumulates indoors, mold growth will often occur, particularly if the moisture pSchoojacherichms remain undiscovered or not addressed.

Interior areas of buildings characterized by poor ventilation and high humidity are the most common locations of mold growth. Building materials including drywall, wallpaper, baseboards, wood framing, insulation and carpeting often play host to such growth. Moisture control is often the key to mold control, since molds need both food and water to survive.

Molds need three things to grow and thrive: Organic materials (food) such as wood, cloth, leather, carpets, or dust, Temperatures between 40 degrees and 100 degrees F. Moisture. If any of these three conditions are not present, a mold colony will become dormant. A dormant colony will become reactivated if favorable conditions return. Often molds release compound gases that create the common "musty" smell associated with mold.

Moisture is the one criterion that must be controlled in order to prevent, or stop, mold growth in interior or living environments. Aside from roof and drainage leaks, and leaky plumbing, there are numerous sources of moisture related to water vapor already in the air (relative humidity). Tubs/showers, cooking, plants, dishwashing, humidifiers and outdoor humid air all contribute moisture that can lead to condensation on, or within, wall surfaces, at windows or at air supply registers. If a must door exists within an area, there is a good chance that mold is present.

As mold becomes a more prevalent issue, building owners will need to stay informed on the subject. There are dozens of Internet websites geared to the topic, and increased litigation in this area is also fueling increased interest. With any new trend there often is misinformation, incorrect conclusions, and conflicting information. Those involved in the building industry should consider the source and weight of information carefully before drawing conclusions and making decisions.

Laboratory test and sampling by qualified industrial hygienist for air & wipe testing can only determine the environmental site conditions for various species of fungi such as Aspergillus, Cladosporium, Stachybotris and other mycotoxyns, and bacteria families such as Legionella, etc. Mold assessment or sampling of the property is not part of an ASTM 1527-05 Phase I. ODELPHI is not contracted to perform the identification of mold hazards on the subject property, thus the delineation of its level is beyond the scope of the service included in this report.

3.5.9 Flood Zone

ODELPHI is not contracted to search flood map to identify whether the subject property is located within 50-year, 100-year flood zone, within the scope of this environmental assessment.

3.5.10 Other Non-Scope Considerations

ODELPHI is not contracted to research the following non-scope considerations, within the scope of this environmental assessment. No implication is intended as to the relative importance of inquiry into such non-scope considerations, and this list of non-scope considerations is not intended to be all-inclusive:

Regulatory compliance, Cultural and historical resources, Industrial hygiene, Health and safety, Ecological resources, Endangered species.

3.6 PHYSICAL SETTING

Physical Setting Sources—A current *USGS 7.5 Minute Topographic Map* (or equivalent) showing the area on which the *property* is located shall be reviewed, provided it is *reasonably ascertainable.* It is the only *standard physical setting source* and the only *physical setting source* that is required to be obtained (and only if it is *reasonably ascertainable*).

One or more additional *physical setting sources* may be obtained in the discretion of the *environmental professional.* Because such sources provide information about the geologic, hydrogeologic, hydrologic, or topographic characteristics of a site, discretionary *physical setting sources* shall be sought when *(1)* conditions have been identified in which *hazardous substances* or *petroleum products* are likely to migrate to the *property* or from or within the *property* into the ground water or soil and *(2)* more information than is provided in the current
USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good Industrial or customary practice in initial *environmental site assessments* in the type of *Industrial real estate transaction involved,* in order to assess the impact of such migration on *recognized environmental conditions* in connection with the *property.*

Mandatory *Standard Physical Setting Source*
USGS—Current 7.5 Minute Topographic Map (or equivalent)

Discretionary and Non-Standard *Physical Setting Sources*
USGS and/or State Geological Survey—Groundwater Maps
USGS and/or State Geological Survey—Bedrock Geology Maps
USGS and/or State Geological Survey—Surficial Geology Maps
Soil Conservation Service—Soil Maps
Other *Physical Setting Sources* that are reasonably credible (as well as *reasonably ascertainable*)

It is ODELPHI's standard procedure and general practice that professional practice of geology or hydrogeology is certified by a licensed Professional Geologist or Professional Engineer, subject to the provisions of the Geologists and Geophysicists Act. ODELPHI's professional geologist or

professional engineer was consulted to provide interpretation of geologic interpretation when the report contains such information.

TOPGRAPHY
The subject property's physical location was researched employing a United States Geological Survey (USGS) 7.5 Minute Topographic Quadrangle (Quad) Map relevant to the subject property. The USGS 7.5 Minute Quad Map has an approximate scale of 1 inch to 2,000 feet, and shows physical features with environmental significance such as wetlands, water bodies, roadways, mines, and buildings.

The physical and natural features illustrated on the Quad Map served as areas of visual emphasis when conducting the site inspection of the subject property. The USGS 7.5 Minute Quad Map was used as the only Standard Physical Setting Source, and is sufficient as a single reference.

The Subject Quad Map shows no physical features that may have environmentally impacted the subject property. The subject property and general area are identified as urban developed. No mines, wells, wetlands, or aboveground tanks were mapped in the general area of the subject property. The elevation of the site is approximately 10 feet above mean sea level on a gradient to the northwest.

While groundwater flow direction at the subject property cannot be confirmed without survey measurement of static groundwater level at triangular points, it is expected to flow in the direction of surface topographical contour, or toward the wetland or nearest water body or discharge basin (percolation channel). It is important to note that groundwater flow direction can be influenced locally and regionally by the present of local wetland features, surface topography, recharge and discharge areas, horizontal and vertical inconsistencies in the types and location of subsurface soils, and proximity to water pumping wells.

SOURCE OF DATA
Current USGS 7.5 Minute Topographical Map

3.7 ADJACENT PROPERTIES

For the scope of this assessment, properties are defined and categorized based upon their physical proximity to the subject property. An adjoining property is any real estate property whose border is contiguous or partially contiguous with the subject properties, or that would be if the properties were not separated by a roadway, street, public thoroughfare, river, or stream.

Uses of Properties in Surrounding Area—Uses in the area surrounding the *property* shall be identified in the *report*, but this task is required only to the extent that this information is revealed in the course of researching the *property* itself (for example, an *aerial photograph* or *fire insurance map* of the *property* will usually show the surrounding area). If the *environmental professional* uses sources that include the surrounding area, surrounding uses should be identified to a distance determined at the discretion of the *environmental professional* (for example, if an aerial photo shows the area surrounding the *property*, then the *environmental professional* shall determine how far out from the *property* the photo should be analyzed). Factors to consider in making this determination include, but are not limited to: the extent to which information is *reasonably ascertainable*; the time

and cost involved in reviewing surrounding uses (for example, analyzing *aerial photographs* is relatively quick, but reviewing *property tax files* for adjacent properties or reviewing *local street directories* for more than the few streets that surround the site is typically too time-consuming); the extent to which information is useful, accurate, and complete in light of the purpose of the *records review*; the likelihood of the information being significant to *recognized environmental conditions* in connection with the *property*; the extent to which potential concerns are *obvious*; known hydro-geologic/geologic conditions that may indicate a high probability of *hazardous substances* or *petroleum products* migration to the *property*; how recently local development has taken place; information obtained from *interviews* and other sources; and local good Industrial or customary practice.

Overall setting of the vicinity is commercial/residential use such as local road (Commercial Ave) to the southeast and the northwest, local road (Union St) to the southwest and the northeast, office buildings to the southwest and the northeast, and residential buildings to the southeast of the subject property.

Adjacent Properties	
ITEM	
Northwest	Warehouse building
Southeast	Local road (Commercial Ave, Union St)
Northeast	Local road (Union St)/Commercial building
Southwest	Office buildings and local road (Union St)

4.0 SUBJECT PROPERTY AND VICINITY HISTORY

4.1 HISTORICAL RECORD SEARCH RESOURCES

Historical Records Search in conformance with the scope and limitations of ASTM Standard Practice E 1527-05 was conducted for the Property. All *obvious* uses of the *property* shall be identified from the present, back to the *property's* first developed use, or back to 1940, whichever is earlier.

Intervals—Review of *standard historical sources* at less than approximately five year intervals is not required by this practice (for example, if the *property* had one use in 1950 and another use in 1955, it is not required to check for a third use in the intervening period). If the specific use of the *property* appears unchanged over a period longer than five years, then it is not required by this practice to research the use during that period (for example, if *fire insurance maps* show the same apartment building in 1940 and 1960,

Data Failure—The historical research is complete when either: *(1)* the objectives in ASTM E1527-05 section 8.3.1 through 8.3.2.2 are achieved; or *(2) data failure* is encountered. *Data failure* occurs when all of the *standard historical sources* that are *reasonably ascertainable* and likely to be useful have been reviewed and yet the objectives have not been met. *Data failure* is not uncommon in trying to identify the use of the *property* at five-year intervals back to first use or 1940 (whichever is earlier). Notwithstanding a *data failure*, *standard historical sources* may be excluded if: *(1)* the sources are not *reasonably ascertainable*, or *(2)* if past experience indicates that the sources are not likely to be sufficiently useful, accurate, or complete in terms of satisfying the objectives. *Other historical sources* may be used to satisfy the objectives, but are not required to comply with this practice. If *data failure* is encountered, the *report* shall document the failure and, if any of the *standard historical sources* were excluded, give the reasons for their exclusion. If the *data failure* represents a significant *data gap*, the *report* shall comment on the impact of the *data gap* on the ability of the *environmental professional* to identify *recognized environmental conditions*

HISTORICAL RECORD SEARCH RESOURCES		
ITEM	NOTED	REFERENCE SOURCE
Previous Environmental Reports		
Sanborn Fire Insurance Maps	✔	EDR
Historical Aerial Photographs	✔	USGA Aerial Photograph
Historical City Directories	✔	EDR Multi-Library City Directory Search
Building & Planning Department Records / Property Profile	✔	Borough of Palisades Park Building Department Records
Preliminary Title Report / Chain of Title	✔	DataQuick property title profile
Recorded Land Title Records		N/A
Historical Topographical Maps	✔	USGS 7.5 Regional Quadrangle
Interviews	✔	Mr. Yun Kim
Property Tax Files	✔	Palisades Park Tax Assessor's Office
Other Historical Records		N/A

4.2 PREVIOUS ENVIRONMENTAL REPORTS

ODELPHI was provided with or made aware of previous Environmental Site Assessment Report performed for the Subject Property, performed by ODELPHI Environmental Inc, dated Aril 1, 2008. ODELPHI's review resulted in no finding of environmental concerns. ODELPHI was provided with or made aware of Remedial Action Report performed for the Subject Property, by Sunbeam Consultants LLC. Based on the finding, Sunbeam performed remediation action and applied for soil remedial action permit for institutional control for the subject property. NJDEP issued Soil Remedial Action Permit, dated May 20, 2013. ODELPHI did not identify previous environmental reports for the Subject Property at local agencies or other sources contacted during this assessment.

4.3 FIRE INSURANCE MAPS

Environmental Data Resources, Inc. (EDR) conducted a search of Sanborn Fire Insurance Company (SanBorn) maps for the area including the Subject Property and revealed coverage for the subject area as followed:

HISTORICAL SANBORN FIRE INSURANCE MAPS	
DATE	DESCRIPTION
1911	The subject property appeared to be vacant lands. The adjacent properties were viewed as local load and vacant land.
1930	The subject property appeared to be residential dwellings. The adjacent properties were viewed as local load, coal yard, vacant land, and residential dwelling.
1950	The subject property appeared to be building material storage yard and residential dwellings. The adjacent properties were viewed as local load, coal yard, and residential dwelling.
1968	The subject property appeared to be building material storage yard and residential dwellings. The adjacent properties were viewed as local load, coal yard, commercial buildings, and residential dwelling.
Sanborn Discussion	Sanborn Fire Insurance map (Sanborn Map) has coverage for the subject property for 1911- 1968. The subject property was revealed as building material storage warehouse and residential dwelling.

No environmental sensitive business was observed in the subject property and adjacent property based on historical Sanborn Fire Insurance Maps.

4.4 HISTORIC AERIAL PHOTOGRAPHS

ODELPHI conducted a search of Aerial photographs for the area including the Subject Property.

DATE	SOURCE	DESCRIPTION
1931-1940	USGS	The subject property appeared to be residential dwellings. The adjacent properties were viewed as local road, vacant land, and residential dwelling.
1951-1983	USGS	The subject property appeared to be old structure and residential dwellings. The adjacent properties were viewed as local road, warehouse

DATE	SOURCE	DESCRIPTION
		and residential dwelling.
1985-2011	USGS	The subject property appeared to be current structure. The adjacent properties were viewed as local lord and current structures as commercial buildings.

Environmentally sensitive business was not observed in the subject and the adjacent property based on historical Acrial Photograph search.

4.5 CITY DIRECTORIES

EDR Multi-Library City Directory Search showed 1976- 2013 the following businesses listed as subject address.

SUBJECT PROPERTY	
YEAR	BUSINESS LISTING
	321 Commercial Ave

321 COMMERCIAL AVE

Year	Uses	Source
2013	GARBER KLEIN & NELSON PC	Cole Information Services
	INVESTMENT CENT	Cole Information Services
	KING SAUNA	Cole Information Services
2008	ALFRED HABER PA	Cole Information Services
	INFORMATION TRANSPORT SYSTEMS	Cole Information Services
	SUPER KING SAUNA	Cole Information Services
2003	INFORMATION TRANSPORT SYSTEMS	City Publishing Co
	TAI YOUNG HEALTH CTR INC	City Publishing Co
1986	North American Communicatons Inc	New Jersey Bell Co
	Pan Sateilite TV	New Jersey Bell Co
1981	Insdeco Corp	New Jersey Bell Co
	Velo Bind Inc	New Jersey Bell Co
1976	Compudial Inc	New Jersey Bell Telephone Co
	NASHAU CORP COMPUTER PRODUCTS	New Jersey Bell Telephone Co

ADJACENT PROPERTIES	
YEAR	BUSINESS LISTING
	319 Commercial Ave

319 COMMERCIAL AVE

Year	Uses	Source
1960	Phillips S	New Jersey Bell Telephone Co.
1955	Phillips S	New Jersey Bell Telephone Company

No Environmentally sensitive business were observed in the subject property and adjacent properties based up on historical city directory search.

4.6 BUILDING RECORDS / PROPERTY PROFILE

ODELPHI requested the Borough of Palisades Park for the search of public records and filed a request to review records on the subject property. The agency has not responded at the time of this report writing. Any significant finding will be added as an addendum to this report.

4.7 CHAIN OF TITLE / PRELIMINARY TITLE REPORT

The DataQuick Title Property Profile identifies use code of the subject property as Commercial Miscellaneous. Primary owner of the subject property is 321 NJ Commercial Realty, LLC.

4.8 HISTORICAL TOPOGRAPHICAL MAPS

No features of environmental concern were identified from The USGS Regional Quad Map (dated 1981, photo revised in 1995) Quadrangle.

4.9 INTERVIEWS

The following comments were made or interviews conducted during the Subject Property survey.

ODELPHI performed site inspection on August 5, 2014 and observed that the subject property was a sauna and a residential dwelling with two parking lots. The property representative, Mr. Yun Kim, was accompanied site inspection and interviewed. According to Mr. Kim, the subject property used to be a warehouse building prior to the purchase of the property. The current building was converted from a warehouse to a spa/sauna building in 2003. He also stated that the source of heating was gas and HVAC units are on the roof. Mr. Kim stated that the subject property does not pose any environmental concern or hazardous in nature to the general public.

4.10 OTHER HISTORICAL RECORDS

According to ASTM E1527-05, ODELPHI is to review historical data, and provide a description of the use of the site since 1940 or beginning with the earliest development of the site, whichever is earlier. ODELPHI obtained reasonably ascertainable historical data, i.e., public records from building & planning department, multi-library city directory search, Sanborn Fire Insurance Maps, aerial photographs, fire or environmental department records, historical topographical maps and Interview with Individuals knowledgeable about previous site usage.

No other historical records were used.

4.11 SUMMARY OF HISTORICAL PEROPRTY USE AND DATA GAP

Summary of Historical Property Use (in chronological order)
The current structure appeared to be built in 1960s or later according to historical records. The subject building used to be a warehouse building, which had been built on a residential dwelling building. Historical data showed the current structure was not in 1960s'. Historical data indicated that no environmentally sensitive business had occupied the subject property.

Data Gap

ASTM E1527-05 and the US-EPA AAIs requires that the report identify and comment on significant data gaps that affect the ability of the environmental professional to identify recognized environmental concerns.

SEARCHES FOR RECORDED ENVIRONMENTAL CLEANUP LIENS (§ 312.25) The all appropriate inquiries rule requires that environmental site assessments include searches for environmental cleanup liens against the subject property that are filed or recorded under federal, state, tribal, or local laws. The objective of this requirement is to identify liens placed upon the property that indicate that environmental response actions were taken to address past releases at, on, or to the subject property. The ASTM E1527-05 standard also requires a search for environmental cleanup liens, although the scope of the search is limited to reasonably ascertainable recorded land title records. The all appropriate inquiries rule differs from the ASTM E1527-05 standard with respect to the party responsible for conducting the search for environmental cleanup liens. Under the ASTM E1527-05 standard, the user, or prospective property owner, is responsible for the environmental cleanup lien search and is required to provide the results of the search to the environmental professional. **The all appropriate inquiries rule allows that either the prospective property owner or the environmental professional may conduct the search. If the search is performed by the prospective property owner and the property owner does not provide the search results to the environmental professional, the environmental professional should treat the lack of information as a data gap and should comment on the significance of the data gap on his or her ability to identify conditions indicative of releases or threatened releases.**

The largest data gap in this research was from 1920 to 1970. From 1920 to present the data gaps ranged from one to fifty years. In addition, the subject property owner did not return ODELPHI's environmental questionnaire. Due to the weather condition, property floor was not inspected. However, ODELPHI does not believe that any gaps in the information reviewed would affect our ability to identify recognized environmental concerns.

5.0 REGULATORY RECORD SEARCH

5.1 PROCEDURE

The most current databases sources maintained by state and federal offices were searched and provided by governmental record search database suppliers. Such databases were searched for properties with reported environmental issues within radii specified by ASTM Standard E 1527-05, either by using geocoding information that identified the coordinates of the properties in the databases or by checking the street addresses of practically reviewable non-geocoded "orphan" properties within the same zip code. The database report is included as an appendix to this *Report.*

The database report may identify a certain "orphan sites" which are those facilities that could not be mapped or geocoded due to inadequate address information.

5.2 FEDERAL AGENCY RECORDS

According to the database report, none of the sites are listed to have an adverse environmental impact on the Subject Property, neighboring properties, and within minimum search distances.

FEDERAL AGENCY RECORDS		
SOURCE	CRITERIA FOR MINIMUM SEARCH DISTANCE (MILES)	NO. OF PROPERTIES WITHIN SEARCH DISTANCE
NPL	1.0	0
De-listed NPL	0.5	0
CERCLIS	0.5	0
CERCLIS-NFRAP	0.5	0
RCRA-CORRACTS	1.0	1
RCRA-TSDF	0.5	1
RCRA-Generator	Subject & Adjoining Properties	0
ERNS	Subject Property Only	0
Federal IC/EC Registries	Subject Property Only	0
Other Federal List	Subject Property Only	0

National Priority List (NPL) and Proposed NPL

The NPL Report, also known as the Superfund List, is an EPA listing of the nation's worst uncontrolled or abandoned hazardous waste facilities. Listing as a Superfund Site is primarily based on a score that the facility receives from the EPA's Hazard Ranking System. These facilities are targeted for possible long-term remedial action under the Superfund Act. Such prioritized sites with significant risk to human health and the environment receive remedial funding under the Comprehensive Environmental Response Conservation and Liability Act (CERCLA). The *NPL* or *National Priorities List* is a list compiled by EPA pursuant to CERCLA, 42 U.S.C. §9605(a)(8)(B), of properties with the highest priority for cleanup pursuant to EPA's Hazard Ranking System. 40 C.F.R. Part 300 can be referenced. (*http://www.epa.gov/superfund/sites/npl/npl.htm*)

The search radius for NPL is one-mile. The subject property is not listed on the NPL. There is no NPL site within one-mile of the subject property.

De-listed National Priority List (NPL) – NPL Deletions
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

The search radius for De-listed NPL is ½ mile. The subject property is not listed on De-listed NPL. There is no De-listed NPL site within ½ mile of the subject property.

Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)/ No Further Remedial Action Planned (NFRAP)
The CERCLIS is the EPA compilation of sites for which the EPA has evidence of, or is investigating, a release or threatened release, of hazardous substances which may be subject to review in accordance with the terms and conditions of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (Superfund Act). Sites to be included are identified primarily by the reporting requirements of hazardous substances including degreasing solvents, oily waste, acid solutions, alkaline solutions, and heavy metal solutions, Treatment, Storage and Disposal (TSD) facilities and releases larger than specific Reportable Quantities (RQ), established by EPA.

The search radius for CERCLIS is ½ mile. The subject property is not listed on CERCLIS. There is no CERCLIS site within ½ mile of the subject property. The search radius for CERCLIS NFRAP is ½ mile. The subject property is not listed on CERCLIS-NFRAP. There are no CERCLIS-NFRAP sites within ½ mile of the subject property.

Resource Conservation and Recovery Act (RCRA)-Corrective Action Tracking System (CORRACTS)
CORRACTS is a list of facilities that are found to have had hazardous waste releases and require Resource Conservation and Recovery Act (RCRA) corrective action activity, which can range from site investigations to remediation. This database is also known as RCRA Violators or Corrective Action Report (CORRACTS).

The search radius for CORRACTS is one mile. The source is from EPA Corrective Action Report. The subject property is not listed on CORRACTS. There is one (1) CORRACTS site within one mile of the subject property.

A review of the CORRACTS list, as provided by EDR, and dated 03/11/2014 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OLIN HUNT SPECIALTY PRODUCTS I	*ROOSEVELT PL*	*W 1/8 - 1/4 (0.191 mi.)*	*Q75*	*152*

The site listed is not suspected to have an adverse environmental impact on the Subject Property based on one or more of the following rationale: a) their distance from the Subject Property; b) their down/cross-gradient location with respect to the assumed shallow groundwater flow direction; c) the nature of the reported release (e.g., soil only); and/or d) their regulatory status (e.g., CLOSED).

RCRA-TSDF: Resource Conservation and Recovery Information System (RCRIS)
The RCRIS report of hazardous waste generators, treatment, storage, and disposal (TSD) facilities contains information pertaining to facilities that are required to register their hazardous waste activity under the Resource Conservation and Recovery Act (RCRA).

The search radius for RCRIS-TSD is ½ mile. The subject property is not listed as an RCRIS-TSD facility. There is one (1) RCRIS-TSD site located within ½ mile of the subject property.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/11/2014 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OLIN HUNT SPECIALTY PRODUCTS I	*ROOSEVELT PL*	*W 1/8 - 1/4 (0.191 mi.)*	*Q75*	*152*

The site listed is not suspected to have an adverse environmental impact on the Subject Property based on one or more of the following rationale: a) their distance from the Subject Property; b) their down/cross-gradient location with respect to the assumed shallow groundwater flow direction; c) the nature of the reported release (e.g., soil only); and/or d) their regulatory status (e.g., CLOSED).

Resource Conservation and Recovery Act (RCRA) Generators

RCRA hazardous waste generators are identified as Large Quantity Generators (LQGs), Small Quantity Generators (SQGs), or Conditionally Exempt Small Quantity Generators (CESQG). RCRA LQGs are identified as those facilities, which generate at least 1,000 kilograms (2,200 pounds) of non-acutely hazardous waste (or 1 kilogram of acutely hazardous waste) monthly. RCRA SQGs are identified as those facilities that generate less than 1,000 kilograms of non-acutely hazardous waste monthly.

The search radius for RCRA list is the subject site and adjacent properties. The subject site is not listed on the RCRA list. No RCRA sites were identified on the EDR report as being adjacent to the subject site.

Federal Emergency Response Notification System (ERNS)

The ERNS is a national database used to collect information on reported releases of petroleum products or hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the U.S. Coast Guard, the National Response Center and the U.S. Department of Transportation. The program is a cooperative effort of the Environmental Protection Agency, the Department of Transportation Research and Special Program Administration's National Transportation System Center and the National Response Center. There are primarily five Federal statues that requires release reporting: CERCLA Section 103; the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304; the Clean Water Act of 1972 (CWA) Section 311(b)(3); and the Hazardous Material Transportation Act of 1974 (HMTA) Section 1808 (b).

The search radius for ERNS is the subject site. The subject site is not listed on the ERNS list.

US Engineering Controls

A listing of sites with engineering controls in place.

Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

The search radius for ENGINEERING CONTROLS is the subject site. The subject site is not listed on the ENGINEERING CONTROLS list.

US Institutional Controls
Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.
Source: Environmental Protection Agency

The search radius for INSTITUTIONAL CONTROLS is the subject site. The subject site is not listed on the INSTITUTIONAL CONTROLS list.

Other Federal Lists (FINDS)
The search radius for FINDS is the subject site. The subject site is not listed on the FINDS list.

Non-ASTM Federal Supplementary Database
CERCLA Site Enforcement Tracking System
U.S. EPA Federal Enforcement Docket
Superfund Consent Decrees (CONSENT)
Record of Decision (ROD)
Toxic Release Inventory System (TRIS)

5.3 NEW JERSEY STATE AGENCY RECORDS

According to the database report, none of the sites are listed to have an adverse environmental impact on the Subject Property, neighboring properties, and within minimum search distances.

NEW JERSEY STATE AGENCY RECORDS		
SOURCE	CRITERIA FOR MINIMUM SEARCH DISTANCE (MILES)	NO. OF PROPERTIES WITHIN SEARCH DISTANCE
State/Tribal SHWS	1.0	107
State/Tribal SWF/LF	0.5	0
State/Tribal LUST	0.5	5
State/Tribal UST	Subject & Adjoining Properties	0
State/Tribal IC/EC Registries	Subject Property Only	0
State/Tribal VCP	0.5	17
State/Tribal Brownfield sites	0.5	14
Other State List	Subject Property Only	1

State/Tribal Known Contaminated Sites in New Jersey (SHWS)
The Known Contaminated Sites in New Jersey includes sites under the purview of the Site Remediation Program, which have contamination present at levels greater than the applicable cleanup criteria for soil and/or groundwater standards. The sites appearing in Known Contaminated Sites in New Jersey are classified as either active, where the site is assigned to a specific remedial program area, or pending, where the site is awaiting assignment to a specific remedial program area. Sites where no further action (NFA) designation has been given are not included in this report unless there are other areas of identified contamination, which have not been remediated. This report includes sites being remediated under all of the various regulatory programs administered by the Site Remediation Program such as: Federal Superfund Program, Federal Resource Conservation and Recovery Act (RCRA), New Jersey's Industrial Site Recovery Act (ISRA), New Jersey's Underground Storage of Hazardous Substances Act, New Jersey's Spill Compensation and Control Act, New Jersey's Solid Waste Management Act, New Jersey's Water Pollution Control Act.

The search radius for State SHWS Sites is one mile. The subject property is not listed on State SHWS Database. There are one hundred seven (107) State SHWS sites located within one mile of the subject property.

A review of the NJ SHWS list, as provided by EDR, and dated 06/04/2014 has revealed that there are 107 NJ SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HURRY CORPORATION Status: Active	*319 COMMERCIAL AVE*	*SSW 0 - 1/8 (0.021 mi.)*	*A7*	*13*
N&J TRANSPORTATION CORP Status: Closed	*306 COMMERCIAL AVE*	*SSW 0 - 1/8 (0.042 mi.)*	*B11*	*21*
NEW TRANSMISSION EXCHANGE Status: Active	*342 COMMERCIAL AVE*	*ENE 0 - 1/8 (0.042 mi.)*	*12*	*25*
141 WEST CENTRAL BOULEVARD Status: Closed	*141 W CENTRAL BLVD*	*SSW 0 - 1/8 (0.058 mi.)*	*B18*	*33*

130 WEST CENTRAL BOULEVARD Status: Closed	130 W CENTRAL BLVD	SSW 0 - 1/8 (0.063 mi.)	B20	37
TELEDYNE FARRIS ENGINEERING Status: Active	401 COMMERCIAL AVE	NE 0 - 1/8 (0.068 mi.)	D22	38
400 COMMERCIAL AVENUE Status: Closed	400 COMMERCIAL AVE	NE 0 - 1/8 (0.071 mi.)	D26	70
EXXON SERVICE STATION #30197 Status: Closed	386 GRAND AVE	E 0 - 1/8 (0.091 mi.)	H39	84
MAGNUS MARITEC INTERNATIONAL I Status: Closed	150 ROOSEVELT PLACE	SW 0 - 1/8 (0.121 mi.)	I53	115
DURAMIC PRODUCTS INC Status: Active	426 COMMERCIAL AVE	NE 1/8 - 1/4 (0.141 mi.)	K56	120
LANDY OLDSMOBILE Status: Active	425 GRAND AVE	ENE 1/8 - 1/4 (0.143 mi.)	L60	129
75 CENTRAL BOULEVARD Status: Closed	75 W CENTRAL BLVD	SSE 1/8 - 1/4 (0.166 mi.)	N64	138
331 HILLSIDE AVENUE Status: Closed	331 HILLSIDE AVE	ESE 1/8 - 1/4 (0.169 mi.)	65	139
309 HILLSIDE AVENUE Status: Active	309 HILLSIDE AVE	SE 1/8 - 1/4 (0.171 mi.)	N70	142
225 COMMERCIAL AVENUE Status: Closed	225 COMMERCIAL AVE	SSW 1/8 - 1/4 (0.190 mi.)	P74	150
439 HILLSIDE AVENUE Status: Closed	439 HILLSIDE AVE	E 1/8 - 1/4 (0.219 mi.)	81	171
C E K MANAGEMENT CO Status: Closed	407 411 HIGHLAND AVE	ESE 1/4 - 1/2 (0.258 mi.)	U84	178
429 HIGHLAND AVENUE Status: Closed	429 HIGHLAND AVE	E 1/4 - 1/2 (0.273 mi.)	86	178
Not reported Status: Closed	447 HIGHLAND AVE	E 1/4 - 1/2 (0.293 mi.)	88	180
Not reported Status: Closed	143 COLUMBUS AVE	SSW 1/4 - 1/2 (0.307 mi.)	89	182
524 LAWN AVENUE Status: Closed	524 LAWN AVE	NE 1/4 - 1/2 (0.310 mi.)	V90	184
EXXON STORE 3-2154 Status: Active	349 BROAD AVE	ESE 1/4 - 1/2 (0.312 mi.)	W92	187
ROSE BEDDING & LINEN Status: Closed	407 BROAD AVE	ESE 1/4 - 1/2 (0.335 mi.)	X94	194
SCHOOL BUS SERVICE Status: Active	12 BELLVIEW PL	SE 1/4 - 1/2 (0.336 mi.)	Y98	200
ZISA MANAGEMENT Status: Closed	411 BROAD AVE	ESE 1/4 - 1/2 (0.336 mi.)	X99	207
34 WEST EDSALL BOULEVARD Status: Closed	34 W EDSALL BLVD	ENE 1/4 - 1/2 (0.338 mi.)	Z101	208
433 BROAD AVENUE Status: Closed	433 BROAD AVE	ESE 1/4 - 1/2 (0.345 mi.)	102	209
25 WEST EDSALL BOULEVARD Status: Pending Status: Closed	25 W EDSALL BLVD	E 1/4 - 1/2 (0.352 mi.)	Z103	210
Not reported Status: Closed	449 BROAD AVE	E 1/4 - 1/2 (0.355 mi.)	104	211

PALISADES PARK MUNICIPAL BUILD Status: Active	*275 BROAD AVE*	*SE 1/4 - 1/2 (0.368 mi.)*	*106*	*215*
ALINA ASSOCIATES Status: Closed	257 BROAD AVE	SSE 1/4 - 1/2 (0.375 mi.)	AA108	223
MGM CLEANERS Status: Closed	*245 BROAD AVE*	*SSE 1/4 - 1/2 (0.397 mi.)*	*110*	*226*
137 OAKDENE AVENUE Status: Closed	137 OAKDENE AVE	NE 1/4 - 1/2 (0.404 mi.)	112	230
R&K MOCKLER MANUFACTURING CO Status: Closed	*20 FAIRVIEW ST*	*SSW 1/4 - 1/2 (0.410 mi.)*	*AB113*	*231*
TAI KYAN REALTY Status: Closed	*232 BROAD AVE*	*SSE 1/4 - 1/2 (0.415 mi.)*	*AC116*	*242*
Not reported Status: Closed	*153 OAKDENE AVE*	*ENE 1/4 - 1/2 (0.417 mi.)*	*AD117*	*243*
PALISADE AUTO BODY-MUNISCO Status: Closed	*8 HENRY AVE*	*SSE 1/4 - 1/2 (0.419 mi.)*	*119*	*246*
28 32 E PALISADES BOULEVARD Status: Closed	*28 32 E PALISADES BLVD*	*ESE 1/4 - 1/2 (0.420 mi.)*	*120*	*249*
179 OAKDENE AVENUE Status: Closed	*179 OAKDENE AVE*	*ENE 1/4 - 1/2 (0.446 mi.)*	*121*	*249*
518 LINCOLN ST Status: Pending	*518 LINCOLN ST*	*E 1/4 - 1/2 (0.457 mi.)*	*123*	*251*
305 3RD ST # 47 E CENTRAL BLV Status: Closed	47 E CENTRAL BLVD	SE 1/4 - 1/2 (0.476 mi.)	124	254
61-71 GRAND AVENUE Status: Closed	*61 GRAND AVENUE*	*SSW 1/4 - 1/2 (0.497 mi.)*	*125*	*254*
128 SYLVAN AVENUE Status: Pending	*128 SYLVAN AVE*	*NE 1/2 - 1 (0.553 mi.)*	*126*	*255*
325 MOORE AVENUE Status: Closed	*325 MOORE AVE*	*ENE 1/2 - 1 (0.556 mi.)*	*AE127*	*256*
336 MOORE AVENUE Status: Closed	*336 MOORE AVE*	*ENE 1/2 - 1 (0.563 mi.)*	*AE128*	*259*
353 MOORE AVENUE Status: Pending	*353 MOORE AVE*	*ENE 1/2 - 1 (0.582 mi.)*	*129*	*261*
RUBY REALTY CORPORATION Status: Active	*W RUBY AVE*	*S 1/2 - 1 (0.592 mi.)*	*AF131*	*262*
FORMER CITGO PALISADES PARK Status: Active	*50 BROAD AVE*	*S 1/2 - 1 (0.592 mi.)*	*AF132*	*265*
ROUTE 46 TRUCK STOP Status: Closed	41 W HARRIET AVE	S 1/2 - 1 (0.617 mi.)	133	272
THE YOUNG SCHOOL & ELEMENTARY Status: Closed	*799 GRAND AVE*	*S 1/2 - 1 (0.631 mi.)*	*134*	*273*
MENZEL PROPERTY Status: Closed	*784 GRAND AVE*	*SSW 1/2 - 1 (0.659 mi.)*	*135*	*277*
188 BROAD AVE Status: Pending	*188 BROAD AVE*	*ENE 1/2 - 1 (0.675 mi.)*	*136*	*280*
Not reported Status: Closed	*40 ROFF AVE*	*SSE 1/2 - 1 (0.697 mi.)*	*137*	*283*
5-23 4TH STREET Status: Closed	523 4TH ST	ESE 1/2 - 1 (0.709 mi.)	138	285

235 5TH STREET Status: Closed	*235 5TH ST*	*SE 1/2 - 1 (0.722 mi.)*	*139*	*286*
100 EAST COLUMBIA AVENUE Status: Closed	*100 E COLUMBIA AVE*	*S 1/2 - 1 (0.736 mi.)*	*140*	*286*
160 CHRISTIE STREET Status: Closed	*160 CHRISTIE ST*	*NE 1/2 - 1 (0.750 mi.)*	*141*	*287*
Not reported Status: Closed	*147 BERGEN BLVD*	*SSE 1/2 - 1 (0.785 mi.)*	*142*	*289*
Not reported Status: Closed	*941 MAPLE AVE*	*S 1/2 - 1 (0.787 mi.)*	*143*	*292*
119 MAPLE STREET Status: Closed	*119 MAPLE ST*	*NNE 1/2 - 1 (0.800 mi.)*	*144*	*294*
441 7TH STREET Status: Pending	*441 7TH ST*	*ESE 1/2 - 1 (0.801 mi.)*	*145*	*295*
430 HIGHWOOD AVENUE Status: Pending	*430 HIGHWOOD AVE*	*E 1/2 - 1 (0.811 mi.)*	*146*	*298*
956 LINDEN AVENUE Status: Closed	*956 LINDEN AVE*	*S 1/2 - 1 (0.818 mi.)*	*147*	*300*
238 EAST EDSALL BLVD Status: Closed	238 E EDSALL BLVD	ESE 1/2 - 1 (0.834 mi.)	148	302
SUNOCO #006-7082 Status: Active	*RT 46 E & ABBOTT AVE*	*SSE 1/2 - 1 (0.840 mi.)*	*149*	*303*
Not reported Status: Closed	*267 8TH STREET*	*SE 1/2 - 1 (0.845 mi.)*	*150*	*307*
810 PROSPECT AVENUE Status: Closed	*810 PROSPECT AVE*	*S 1/2 - 1 (0.850 mi.)*	*151*	*309*
141 PROSPECT STREET Status: Closed	*141 PROSPECT ST*	*NE 1/2 - 1 (0.864 mi.)*	*153*	*310*
SLOANE BUILDING Status: Closed	*734 GRAND AVE*	*SSW 1/2 - 1 (0.871 mi.)*	*AH155*	*313*
RICHTREE REALTY ASSOCIATES Status: Active	*730 GRAND AVE*	*SSW 1/2 - 1 (0.875 mi.)*	*AH157*	*349*
Not reported Status: Closed	*383 TEANECK RD.*	*WNW 1/2 - 1 (0.897 mi.)*	*158*	*357*
MOBIL SERVICE STATION 12 JX5 Status: Active	*1545 RT 46*	*E 1/2 - 1 (0.901 mi.)*	*159*	*359*
KNAPPS EXPRESS INC Status: Closed	*37 EMERSON ST*	*W 1/2 - 1 (0.904 mi.)*	*160*	*363*
BP SERVICE STATION 687 Status: Active	*1480 BERGEN BLVD*	*E 1/2 - 1 (0.908 mi.)*	*161*	*364*
AMBASSADOR ARMS APARTMENTS Status: Closed	*417 TEANECK RD*	*WNW 1/2 - 1 (0.910 mi.)*	*162*	*366*
837 MAPLE AVENUE Status: Closed	*837 MAPLE AVE*	*SSE 1/2 - 1 (0.911 mi.)*	*163*	*367*
755 ABBOTT AVENUE Status: Closed	*755 ABBOTT AVE*	*S 1/2 - 1 (0.914 mi.)*	*164*	*370*
RAIMONDO CONSTRUCTION Status: Closed	*1400 1420 BERGEN BLVD*	*E 1/2 - 1 (0.922 mi.)*	*165*	*370*
Not reported Status: Closed	*147 HOBART ST*	*W 1/2 - 1 (0.923 mi.)*	*166*	*371*
B&D ASSOCIATES Status: Active	*719 GRAND AVE*	*SSW 1/2 - 1 (0.925 mi.)*	*AI167*	*375*

EXXON SERVICE STATION #35427 Status: Active	*1549 RT 46*	*E 1/2 - 1 (0.929 mi.)*	*168*	*385*
107 GLADWIN AVENUE Status: Closed	*107 GLADWIN AVE*	*NE 1/2 - 1 (0.933 mi.)*	*169*	*388*
C RAIMONDO & SONS CONSTRUCTION Status: Closed	*550 BERGEN BLVD*	*ESE 1/2 - 1 (0.943 mi.)*	*170*	*390*
319 COLUMBIA AVENUE Status: Closed	*319 COLUMBIA AVE*	*SSE 1/2 - 1 (0.944 mi.)*	*171*	*394*
AMERICAN POWER JET COMPANY Status: Closed	*705 GRAND AVE*	*SSW 1/2 - 1 (0.946 mi.)*	*AI172*	*395*
MONARCH INDUSTRIES INC AVERY D Status: Closed	*686 GRAND AVE*	*SSW 1/2 - 1 (0.948 mi.)*	*AI173*	*397*
SKY VIEW MOTEL Status: Closed	*1560 BERGEN BLVD*	*E 1/2 - 1 (0.961 mi.)*	*174*	*403*
335 GRANDE AVENUE Status: Active	*335 GRAND AVE*	*NNE 1/2 - 1 (0.963 mi.)*	*175*	*407*
460 BERGEN BLVD Status: Active	*460 BERGEN BLVD*	*ESE 1/2 - 1 (0.964 mi.)*	*176*	*413*
500 10TH STREET Status: Active	*500 10TH ST*	*ESE 1/2 - 1 (0.966 mi.)*	*177*	*413*
530 10TH STREET Status: Closed	*530 10TH ST*	*ESE 1/2 - 1 (0.976 mi.)*	*178*	*416*
125 HOBART STREET Status: Closed	*125 HOBART ST*	*W 1/2 - 1 (0.978 mi.)*	*179*	*419*
956 SLOCUM AVENUE Status: Closed	*956 SLOCUM AVE*	*S 1/2 - 1 (0.980 mi.)*	*180*	*420*
19 PERSHING COURT Status: Closed	*19 PERSHING CT*	*WNW 1/2 - 1 (0.988 mi.)*	*181*	*422*
133 FORT LEE ROAD Status: Closed	*133 FORT LEE RD*	*NNE 1/2 - 1 (0.988 mi.)*	*182*	*424*
206 FORT LEE ROAD Status: Pending	*206 FORT LEE RD*	*NE 1/2 - 1 (0.988 mi.)*	*183*	*425*
Not reported Status: Closed	*137 CHRISTIE ST*	*W 1/2 - 1 (0.989 mi.)*	*184*	*426*
Not reported Status: Closed	*675 GRAND AVE*	*SSW 1/2 - 1 (0.992 mi.)*	*185*	*428*
SANO'S BROADVIEW CORP Status: Active	*344 BERGEN BLVD*	*SE 1/2 - 1 (0.996 mi.)*	*186*	*430*
120 HUDSON AVENUE Status: Closed	*120 HUDSON AVE*	*WNW 1/2 - 1 (0.996 mi.)*	*187*	*435*
BAGNATO & SONS PROPERTY Status: Closed	26 E WINANT AVE	WSW 1/2 - 1 (0.997 mi.)	188	438

Lower Elevation	Address	Direction / Distance	Map ID	Page
KING SPA SAUNA Status: Closed	*329 COMMERCIAL AVE*	*WNW 0 - 1/8 (0.017 mi.)*	*A5*	*10*
OLIN HUNT SPECIALTY PRODUCTS I Status: Active	*ROOSEVELT PL*	*W 1/8 - 1/4 (0.191 mi.)*	*Q75*	*152*
PFISTER CHEMICAL INC Status: Active	*1098 RT 46*	*SW 1/2 - 1 (0.586 mi.)*	*130*	*261*
UNION HILL PRINTING CO Status: Closed	1061 SLOCUM AVE	SSW 1/2 - 1 (0.860 mi.)	AG152	310

SST BICYCLE SUPPLY CO Status: Closed	1101 SLOCUM AVE	SSW 1/2 - 1 (0.870 mi.)	AG154	311
TEKKOTE CORP Status: Closed	110 SLOCUM AVE	SSW 1/2 - 1 (0.872 mi.)	AG156	319

None of the sites listed are suspected to have an adverse environmental impact on the Subject Property based on one or more of the following rationale: a) their distance from the Subject Property; b) their down/cross-gradient location with respect to the assumed shallow groundwater flow direction; c) the nature of the reported release (e.g., soil only); and/or d) their regulatory status (e.g., CLOSED).

State/Tribal Solid Waste Facilities/Landfill (SWF/LF)

The SWF/LF is a listing of all permitted active, inactive, or closed landfills. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

The search radius for SWF/LF is ½ mile. The subject property is not listed on SWF/LF. There is no SWF/LF site within ½ mile of the subject property.

State/Tribal Leaking Underground Storage Tanks (LUST)

The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, and tank failures or tank overfills.

The search radius for the LUST list is ½ mile. The subject property is not listed on the LUST list. There are five (5) sites within ½ mile of the subject property.

A review of the NJ LUST list, as provided by EDR, and dated 05/27/2014 has revealed that there are 5 NJ LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TELEDYNE FARRIS ENGINEERING	401 COMMERCIAL AVE	NE 0 - 1/8 (0.068 mi.)	D22	38
LANDY OLDSMOBILE	425 GRAND AVE	ENE 1/8 - 1/4 (0.143 mi.)	L60	129
PALISADES PARK EXXON	349 BROAD AVE	ESE 1/4 - 1/2 (0.312 mi.)	W93	190
SCHOOL BUS SERVICE	12 BELLVIEW PL	SE 1/4 - 1/2 (0.336 mi.)	Y98	200
PALISADES PARK MUNICIPAL BUILD	275 BROAD AVE	SE 1/4 - 1/2 (0.368 mi.)	106	215

The sites listed are not suspected to have an adverse environmental impact on the Subject Property based on one or more of the following rationale: a) their distance from the Subject Property; b) their down/cross-gradient location with respect to the assumed shallow groundwater flow direction; c) the nature of the reported release (e.g., soil only); and/or d) their regulatory status (e.g., CLOSED).

State/Tribal Underground Storage Tank (UST) Database

The Underground Storage Tank database contains registered USTs which are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data comes from the State Water Resources Control Board's Hazardous Substance Storage Container Database. Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

The search radius for UST is the subject site and adjacent properties. The subject site is not listed on the UST list. There is no listed UST site on properties adjacent to the subject property.

State/Tribal State Institutional Controls/Engineering Controls
Classification Exception Area Sites/Declaration Environmental Restriction/Deed Notice Sites
A Classification Exception Area is an institutional control providing notice that ground water contamination exists in a particular location above State standards. Legal Document that restricts the use of contaminated property; holds owner(s) to the regulatory/statutory requirements for cleanup.

The search radius for IC/EC is the subject site. The subject site is not listed on the IC/EC list.

State/Tribal State Voluntary Cleanup Sites: Site involved in the Voluntary Cleanup Program.

Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.

The search radius for VCP Sites is ½ mile. The subject site is listed on the VCP Sites list. There are seventeen (17) VCP sites within ½ mile of the subject property.

A review of the NJ VCP list, as provided by EDR, and dated 08/17/2013 has revealed that there are 17 NJ VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HURRY CORPORATION	*319 COMMERCIAL AVE*	*SSW 0 - 1/8 (0.021 mi.)*	*A7*	*13*
NEW TRANSMISSION EXCHANGE	*342 COMMERCIAL AVE*	*ENE 0 - 1/8 (0.042 mi.)*	*12*	*25*
141 WEST CENTRAL BOULEVARD	141 W CENTRAL BLVD	SSW 0 - 1/8 (0.058 mi.)	B19	36
DURAMIC PRODUCTS INC	*426 COMMERCIAL AVE*	*NE 1/8 - 1/4 (0.141 mi.)*	*K56*	*120*
309 HILLSIDE AVENUE	*309 HILLSIDE AVE*	*SE 1/8 - 1/4 (0.171 mi.)*	*N69*	*141*
225 COMMERCIAL AVENUE	*225 COMMERCIAL AVE*	*SSW 1/8 - 1/4 (0.190 mi.)*	*P74*	*150*
227 GRAND AVENUE LLC	227 GRAND AVE	S 1/8 - 1/4 (0.220 mi.)	82	174
524 LAWN AVENUE	*524 LAWN AVE*	*NE 1/4 - 1/2 (0.310 mi.)*	*V91*	*185*
407 BROAD AVENUE	*407 BROAD AVE*	*ESE 1/4 - 1/2 (0.335 mi.)*	*X95*	*195*
GARDEN APARTMENT COMPLEX	*465-469 BROAD AVE*	*E 1/4 - 1/2 (0.364 mi.)*	*105*	*213*
ALINA ASSOCIATES	*257 BROAD AVE*	*SSE 1/4 - 1/2 (0.375 mi.)*	*AA107*	*221*
PNC BANK	*254-266 BROAD AVE*	*SSE 1/4 - 1/2 (0.384 mi.)*	*AA109*	*224*
22-26 HENRY AVENUE (APT COMPLE	*22-26 HENRY AVE*	*SSE 1/4 - 1/2 (0.403 mi.)*	*111*	*228*
60 WEST OAKDENE AVENUE	60 W OAKDENE AVE	ENE 1/4 - 1/2 (0.417 mi.)	AD118	246
PALISADE AUTO BODY-MUNISCO	*8 HENRY AVE*	*SSE 1/4 - 1/2 (0.419 mi.)*	*119*	*246*
28 32 E PALISADES BOULEVARD	*28 32 E PALISADES BLVD*	*ESE 1/4 - 1/2 (0.420 mi.)*	*120*	*249*

Lower Elevation	Address	Direction / Distance	Map ID	Page
KING SPA SAUNA	*329 COMMERCIAL AVE*	*WNW 0 - 1/8 (0.017 mi.)*	*A5*	*10*

None of the sites listed are suspected to have an adverse environmental impact on the Subject Property based on one or more of the following rationale: a) their distance from the Subject Property; b) their down/cross-gradient location with respect to the assumed shallow groundwater flow direction; c) the nature of the reported release (e.g., soil only); and/or d) their regulatory status (e.g., CLOSED).

State/Tribal State Brownfield Sites
Brownfields are identified as former or current Industrial or industrial use sites that are presently vacant or underutilized, on which there is suspected to have been a discharge of a contamination to the soil or groundwater at concentrations greater than applicable cleanup criteria.

The search radius for Brownfield Sites is ½ mile. The subject site is not listed on the Brownfield Sites list. There are fourteen (14) Brownfield sites within ½ mile of the subject property.

None of the sites listed below are suspected to have an adverse environmental impact on the Subject Property based on one or more of the following rationale: a) their distance from the Subject Property; b) their down/cross-gradient location with respect to the assumed shallow groundwater flow direction; c) the nature of the reported release (e.g., soil only); and/or d) their regulatory status (e.g., CLOSED).

A review of the NJ BROWNFIELDS list, as provided by EDR, and dated 12/03/2012 has revealed that there are 14 NJ BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HURRY CORPORATION	*319 COMMERCIAL AVE*	*SSW 0 - 1/8 (0.021 mi.)*	*A7*	*13*
NEW TRANSMISSION EXCHANGE	*342 COMMERCIAL AVE*	*ENE 0 - 1/8 (0.042 mi.)*	*12*	*25*
141 WEST CENTRAL BOULEVARD	*141 W CENTRAL BLVD*	*SSW 0 - 1/8 (0.058 mi.)*	*B18*	*33*
TELEDYNE FARRIS ENGINEERING	*401 COMMERCIAL AVE*	*NE 0 - 1/8 (0.068 mi.)*	*D22*	*38*
EXXON SERVICE STATION #30197	*386 GRAND AVE*	*E 0 - 1/8 (0.091 mi.)*	*H39*	*84*
DURAMIC PRODUCTS INC	*426 COMMERCIAL AVE*	*NE 1/8 - 1/4 (0.141 mi.)*	*K56*	*120*
LANDY OLDSMOBILE	*425 GRAND AVE*	*ENE 1/8 - 1/4 (0.143 mi.)*	*L60*	*129*
309 HILLSIDE AVENUE	*309 HILLSIDE AVE*	*SE 1/8 - 1/4 (0.171 mi.)*	*N70*	*142*
EXXON STORE 3-2154	*349 BROAD AVE*	*ESE 1/4 - 1/2 (0.312 mi.)*	*W92*	*187*
SCHOOL BUS SERVICE	*12 BELLVIEW PL*	*SE 1/4 - 1/2 (0.336 mi.)*	*Y98*	*200*
PALISADES PARK MUNICIPAL BUILD	*275 BROAD AVE*	*SE 1/4 - 1/2 (0.368 mi.)*	*106*	*215*
R&K MOCKLER MANUFACTURING CO	*20 FAIRVIEW ST*	*SSW 1/4 - 1/2 (0.410 mi.)*	*AB113*	*231*
PALISADE AUTO BODY-MUNISCO	*8 HENRY AVE*	*SSE 1/4 - 1/2 (0.419 mi.)*	*119*	*246*
518 LINCOLN ST	*518 LINCOLN ST*	*E 1/4 - 1/2 (0.457 mi.)*	*123*	*251*

State/Tribal Other State List (NJ Release)

The search radius for NJ Release is the subject site only. The subject site is listed on NJ Release.

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
321 COMMERCIAL AVE 321 COMMERCIAL AVE PALISADES PARK BORO, NJ 07650	NJ Release	N/A

According to an environmental consultant who worked on the case in 2008, the subject property has an on-going case (# 06-06-13-1522-54) with historic fill material. ODELPIII interviewed the project director, Mr. Atiqur Rahman of Sunbeam Consultant, LLC ('Sunbeam'). Mr. Rahman stated that contamination at the subject property pose mitigated risk because it came from historic fill materials and approximately 20 tons of fill material was excavated. Based on the finding, Sunbeam performed remediation action and applied for soil remedial action permit for institutional control for the subject property. NJDEP issued Soil Remedial Action Permit, dated May 20, 2013. Mr. Rahman issued a RAO letter for the subject property (Appendix H).

NJ-NJEMS (New Jersey - New Jersey Environmental Management System).
The Department of Environmental Protection (NJDEP) manages large databases of environmental information in this integrated system.

FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

RCRA Info is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRA Info allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Non-ASTM Federal Supplementary Database
Proposition 65 Records (Notify 65)
Toxic Pits (TPC)
Well Investigation Program
Water Wells (USGS)
Historical UST Database (HIST UST)

TPC (Toxic Pits): The Toxic Pits Cleanup Act places strict limitations on the discharge of liquid hazardous wastes into surface impoundment, toxic ponds, pits and lagoons. Regional Water Quality Control Boards are required to inspect all surface impoundments annually, in addition, every facility was required to file a Hydro-geological Assessment Report. Recent legislation allows the Department of Health Services to exempt facilities that closed on or before December 31, 1986, if no significant environmental risk is shown to remain.

SWAT (Solid Waste Assessment Test): This program requires that disposal sites with more than 50,000 cubic yards of waste provide sufficient information to the regional water quality control board to determine whether or not the site has discharged hazardous substances which will impact the environment. Site operators are required to file Solid Waste Assessment Test reports on a staggered basis. Operators submit water quality tests to the Regional Water Quality Control Board, describing surface and groundwater quality and supply; and the geology within 1 mile of the site. Air quality tests are submitted to the local Air Quality Management District or Air Pollution Control District.

Water Wells: The Groundwater Site Inventory (GWSI) database was provided by the United States Geological Survey (USGS), which contains information on over 1,000,000 wells and other groundwater which the USGS has studied, used or otherwise had reason to document through the course of research.

5.4 LOCAL AGENCY RECORDS

ODELPHI's field engineer contacted the following public agencies to find any records of former operation of gasoline UST or any other hazardous substances on the subject premises.

Borough of Palisades Park, City Clerk's Office, Building/Fire/Health Department, 275 Commercial Ave, 201-585-4100 => ODELPHI requested the Borough of Palisades Park for the search of public records and filed a request to review records on the subject property. The agency has not responded at the time of this report writing. Any significant finding will be added as an addendum to this report.

6.0 FINDINGS AND CONCLUSIONS

ODELPHI performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-05 of the Subject Property. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this Report.

ODELPHI's assessment has revealed no Recognized Environmental Condition, but a historical Recognized Environmental Condition in connection with the Subject Property in accordance with ASTM E1527-05 as followed:

- According to an environmental consultant who worked on the case in 2008, the subject property has an on-going case (# 06-06-13-1522-54) with historic fill material. ODELPHI interviewed the project director, Mr. Atiqur Rahman of Sunbeam Consultant, LLC ('Sunbeam'). Mr. Rahman stated that contamination at the subject property pose mitigated risk because it came from historic fill materials and approximately 20 tons of fill material was excavated. Based on the finding, Sunbeam performed remediation action and applied for soil remedial action permit for institutional control for the subject property. NJDEP issued Soil Remedial Action Permit, dated May 20, 2013. Mr. Rahman issued a RAO letter for the subject property (Appendix H).

7.0 RECOMMENDATIONS AND OPINIONS

Considering the historical and the current use of the subject property, no further action or subsurface investigation is recommended based on the historical uses of the subject property due to the minimal risk of contamination at the subject property.

8.0 REFERENCES

During the preparation of this Report, a number of sources were contacted, many individuals interviewed, and various state, county or local municipal agencies consulted. Documentation applicable to the Subject Property in those departments and agencies was requested and reviewed when and where reasonably ascertainable, as detailed in ASTM E1527-05. Individuals listed without phone numbers were contacted in person or by e-mail. Reference sources for site-specific information, hydro-geologic setting, technical data, historical research data, environmental reports and other records used are identified throughout this Report in corresponding sections, if not provided in the following table.

REFERENCE SOURCES					
RESOURCE	ADDRESS	CONTACT	INFORMATION PROVIDED	PHONE OR WEB	DATE
Building Department Office	275 Commercial Ave	File Review	Code compliance & violations, Certificates of Occupancy, Property history	201-585-4100	8/5/14
Fire Department	275 Commercial Ave	File Review	Fire history & code violations, UST/AST history and hazardous materials	201-585-4100	8/5/14
Subject Property tenants	Subject Site		Property information and site access		8/5/14
Property Owner	Subject Site	Mr. Yun Kim	Property information and site access	[redacted]	8/5/14

Borough of Palisades Park, Clerk's Office for Building/Fire/Health Department

Current USGS 7.5 Minute Topographical Map

USDA Aerial photo

USGS Aerial photo

Cartwright Aerial Surveys Aerial photo

9.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of this part [40 CFR Part 312].

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property.

I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Subject: **Phase I Environmental Site Assessment Report**
321 Commercial Ave, Palisades Park, NJ 07650
ODELPHI Project #2129213-PI

Casey Oh,
Project Manager
Ph. D., CRS, CEM

BLOCK 108 LOT 6.02 QUALIFICATION CODE DEP. Case # (16-11-30-1216-3) 00598-16 ADDRESS (SITE) 113 Union St. PERMIT NO. 16-600

CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

I. IDENTIFICATION

1. Proposed Work Site at: 113 UNION ST.
2. Name of Owner in Fee: 113 UNION STREET LLC
   Tel. ([redacted] e-mail
   Address 21 GRAND AVE. - SUITE 601 PALISADES PARK, NJ (street / municipality / zip code)
3. Ownership in Fee: Public ____ Private ✓
4. Principal Contractor: Russell W Anderson Inc. Tel. ( )
   Address P.O Box 757 Ramsey NJ 07446 e-mail
   Tel: [redacted]
   NJ DEP # [redacted] Exp
   License No. OR, if new home, Builder's Reg. [redacted] Exp. Date
   Home Improvement Contractor Registration No. or Exemption Reason (if applicable):
   Federal Emp. ID No. FAX: ( )
5. Architect or Engineer Contact
   Address e-mail
   Tel. ( ) FAX: ( )
6. Responsible Person in Charge once Work has Begun RUSS ANDERSON
   Tel. [redacted] FAX: [redacted]

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	$		
2. Electrical			
3. Plumbing			
4. Fire Protection			
5. Elevator Devices			
6. Subtotal			
7. Less 20% for State Plan Review	$		
8. Subtotal	$		
9. State Permit Surcharge Fee			
10. Subtotal	$		
11. Cert. of Occupancy			
12. Other			
13. TOTAL	$		

VI. BUILDING/SITE CHARACTERISTICS (office use only)

1. Number of Stories 4
2. Height of Structure ____ ft.
3. Area — Largest Floor ____ sq. ft.
4. New Building Area ____ sq. ft.
5. Volume of New Structure ____ cu. ft.
6. Max. Live Load
7. Max. Occupancy Load
8. If Industrialized Building: State Approved ____ HUD ____
9. Total Land Area Disturbed ____ sq. ft.
10. Flood Hazard Zone
11. Base Flood Elevation ____ ft.
12. Wetlands yes ____ no ____

IIa. PROPOSED WORK

- ☒ Minor Work
- ☐ New Building
- ☐ Addition
- ☐ Demolition
- ☐ Repair
- ☐ Alteration
- ☐ Renovation
- ☐ Reconstruction
- ☐ Asbestos Abat. -Subch. 8
- ☐ Lead Hazard Abatement
- ☐ Radon Remediation
- ☐ Annual Permit

IIb. SUBCODES (Check all that apply)

FOR OFFICE USE ONLY (Optional)

	Est. Cost	Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Resubmission Dates Rejection	Re-viewer
☒ Building	6,000								
☐ Electrical			/						
☐ Plumbing									
☐ Fire Protection									
☐ Elevator									
TOTAL COST	6,000								

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL *(primary use)*
1. State Specific Use:
2. Use Group, Proposed: ____
3. Change in Use Group, Indicate Present:
4. No. of dwelling units: *Total Units* *Income-restricted*
   Gained, Sale ____ ____
   Gained, Rental ____ ____
   Lost, Sale ____ ____
   Lost, Rental ____ ____

B. NON-RESIDENTIAL *(primary use)*
1. State Specific Use:
2. Use Group, Proposed: ____
3. Change in Use Group, Indicate Present:

C. MIXED USE -List secondary use(s): ____

D. Construct. Classification: Present ____ Proposed ____

III. PLAN REVIEW (optional)

DO YOU WANT:
1. ☐ Partial Releases
2. ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/ Dumbwaiters/Moving Walks
2. ☐ High Pressure Boilers
3. ☐ Pressure Vessels
4. ☐ Refrigeration Systems
5. ☐ Cross-Connections/Backflow Preventers
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers/Standpipes
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks
10. ☐ Swimming Pools, Spas and Hot Tubs
11. ☐ LPGas Tanks
12. ☐ Fire Alarm

U.C.C. F100-1 (rev. 8/08)

P3789

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

A. ( ) I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

B. ( ) I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(f)1.ix:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

C. ( ) I further certify that I will perform or supervise the following work:
C.1. ( ) Building C.2. ( ) Fire Protection

I further certify that I will perform the following work:
C.3. ( ) Electrical C.4. ( ) Plumbing

D. ( ) I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

(✓ Check if contractor.

Agent Name Russell W Anderson Inc.
Address P.O Box 757
Ramsey NJ 07446
Tel: [redacted]
NJ DEP # US00904 Exp
Fed ID # [redacted]
Telephone ( ) _____

Signature _____

III. ( ) LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.

OFFICE DATE RECEIVED: _____

VIII. PRIOR APPROVALS CHECKLIST (office use only)	LOCAL APPROVAL		COUNTY APPROVAL		REGIONAL APPROVAL		STATE APPROVAL		COMMENTS
	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	
☐ Zoning Officer			X	X	X	X	X	X	
☐ Planning Board							X	X	
☐ Zoning Board			X	X	X	X	X	X	
☐ Sewer Authority							X	X	
☐ Water Authority							X	X	
☐ Police Department			X	X	X	X	X	X	
☐ Health Department					X	X			
☐ Soil Conservation									
☐ N.J. Department of Community Affairs	X	X	X	X	X	X			
☐ N.J. Department of Transportation	X	X	X	X	X	X			
☐ N.J. Department of Environmental Protection	X	X	X	X	X	X			
☐ Utility Dig No.			X	X	X	X	X	X	
☐									
☐									

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only—optional)

Name of Code & Edition		Name of Code & Edition			
Building	_____	Energy	_____	Other	_____
Electrical	_____	Barrier Free	_____		_____
Plumbing	_____	Flood Hazard	_____		_____
Fire Protection	_____	As Built Elevation Cert.	_____		_____
Mechanical	_____	Other	_____		_____

X. CERTIFICATES ISSUED (office use only)

		DATE ISSUED	DATE EXPIRED	DATE REISSUED	DATE EXPIRED
☐ Temporary Certificate of Occupancy	No. _____	_____	_____	_____	_____
☐ Temporary Certificate of Compliance	No. _____	_____	_____	_____	_____
☐ Continued Certificate of Occupancy	No. _____	_____	_____	_____	_____
☐ Certificate of Compliance	No. _____	_____	_____	_____	_____
☐ Certificate of Occupancy	No. _____	_____	_____		
☐ Certificate of Approval	No. _____	_____	_____		
☐ Lead Abatement Clearance Certificate	No. _____	_____	_____	_____	_____

2016 NOV 21 PM 1 07

Building Department
275 Broad Avenue
Palisades Park NJ 07650
(201)585-4108

CERTIFICATE

0245 - PALISADES PARK BORO

Date Issued: 09/05/2017
Permit # 16-00600
Certificate: 1600600.1

IDENTIFICATION

Block 108 Lot 6 Qualifier
Work Site Location 113 UNION ST, 117 UNION STREET
Palisades Park, NJ 07650

Owner in Fee HEIDI LEE
Address 21 GRAND AVENUE,# 601
PALISADES PARK, NJ 07650
Telephone [redacted]
Contractor RUSSELL W. ANDERSON INC
Address PO BOX 757
RAMSEY, NJ 07446
Telephone (201) 825-2092 FAX
Lic No/Bldrs Reg No. US00904 Fed. Emp. No. [redacted]

Home Imprv. Reg No. / Exempt
Reason -

Home Warranty No.
Type of Warranty Plan [ ] State [ ] Private
Use Group ICC/U
Maximum Live Load
Construction Class
Max. Occupancy Load
Description of Work/Use
REMOVAL 1,000 UST TANK

☐ **CERTIFICATE OF OCCUPANCY**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☒ **CERTIFICATE OF APPROVAL**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of the inspection.

☐ **TEMPORARY CERTIFICATE OF OCCUPANCY/COMPLIANCE**

If this is a temporary Certificate of Occupancy or Compliance, the following conditions must be met no later than _____or will be

☐ **CERTIFICATE OF CLEARANCE - LEAD ABATEMENT 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC 5:17, to the following extent:

[ ] Total removal of lead-based paint hazards in scope of work
[ ] Partial or limited time period (0years); see file

☐ **CERTIFICATE OF CONTINUED OCCUPANCY**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **CERTIFICATE OF COMPLIANCE**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

_____ .

Fee $0.00
Paid [$0.00] Check No.
Collected by:

_____
CONSTRUCTION OFFICIAL

PermitsNJ

PNJF260 rev. (5/2013)
Printed On: 09/05/2017 13:52

CONSTRUCTION PERMIT

Date Issued 11/22/16

Permit # 16-600.

IDENTIFICATION Block 108 Lot 6.02 Qualification Code

Work Site Location 113 UNION ST.
PALISADES PARK

Owner in Fee 113 UNION ST. LLC

Address 21 GRAND AVE., SUITE 601
PALISADES PARK NJ

Tel. ([redacted])

Contractor

Address Russell W Anderson Inc.
P.O Box 757
Ramsey NJ 07446

Tel: [redacted]

Lic. No. or Bldrs. Reg. NJ DEP # US00904 Exp

Fed. ID # [redacted]

Is hereby granted permission to perform the following work:

[X] BUILDING [ ] PLUMBING [ ] LEAD HAZARD ABATEMENT

[ ] ELECTRICAL [ ] FIRE PROTECTION [ ] DEMOLITION

[ ] ELEVATOR DEVICES [ ] ASBESTOS ABATEMENT (Subchapter 8 only) [X] OTHER OIL TANK

DESCRIPTION OF WORK: 1,000 gal UST REMOVAL

NOTE: If construction does not commence within one (1) year of date of Issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work $ 6,000.

Construction Official

11/21/16
Date

PAYMENTS (Office Use Only)	
Building	150.
Electrical	
Plumbing	
Fire Protection	
Elevator Devices	
Other	
DCA State Permit Fee	
Cert. of Occupancy	
Other	
Total	150.
Check No.	
Cash	
Collected by	1035

U.C.C. F170 (rev. 01/04)

(see reverse side)

1 WHITE–INSPECTOR 2 CANARY–OFFICE 3 PINK–TAX ASSESSOR 4 GOLD–APPLICANT GA

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval given.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in the case of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. Utility services, including septic.
4. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and/or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.

☐ Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

BUILDING SUBCODE
TECHNICAL SECTION

Date Received
Control #

Date Issued 11/22/16
Permit # 16-600

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 108 Lot 6.02 Qualification Code _____

Work Site Location 113 UNION ST.
PALISADES PARK

Owner In Fee: 113 UNION STREET - LLC

Tel. [redacted] e-mail _____

Address 21 GRAND AVE., PALISADES PARK
municipality zip code

Contractor: Russell W Anderson Inc. Tel. ( ) _____

Address P.O Box 757
Ramsey NJ 07446 e-mail _____
Tel: [redacted]
NJ DEP # US00904 Exp
Fed ID # [redacted]

Contractor License No. of Builder _____ Exp. Date _____

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____

Federal Emp. ID No. _____ FAX: ( ) _____

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial
[ ] No Plans Required		
[ ] All	11/22/16	
[ ] Footings/Foundations		
[ ] Structural/Framework		
[ ] Exterior		
[ ] Interior		

Joint Plan Review Required:
[ ] Elec. [ ] Plumb. [ ] Fire [ ] Elevator

SUBCODE APPROVAL for PERMIT
Date: _____
Approved by: _____

SUBCODE APPROVAL for CERTIFICATE
[ ] CO [ ] CCO [ ] CA
Date: _____
Approved by: _____

INSPECTIONS Type	Dates (Month/Day) Failure	Failure	Approval	Initial
Footing				
Footing Bonding				
Foundation				
Slab				
Frame				
Truss Sys./Bracing				
Barrier-Free				
Insulation				
Finishes -Base Layer				
Finishes -Final				
Energy				
Mechanical				
TCO				
Other TANK		11/29/16		
Final				
Barrier-Free				

B. BUILDING CHARACTERISTICS

Use Group Present _____ Proposed _____
No. of Stories _____
Height of Structure _____ ft.
Area — Largest Floor _____ sq. ft.
New Bldg. Area/All Floors _____ sq. ft.
Volume of New Structure _____ cu. ft.
Max. Live Load _____
Max. Occupancy Load _____

Constr. Class Present _____ Proposed _____

If Industrialized Building:
State Approved _____ HUD _____

Est. Cost of Bldg. Work:
1. New Bldg. $ -
2. Rehabilitation $ 6,000
3. Total (1+ 2) $ 6,000

U.C.C. F110
(rev. 12/07)

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Signature

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

1,000 GAL UST REMOVAL

TYPE OF WORK:
[ ] New Building
[ ] Addition
[ ] Rehabilitation
[ ] Roofing
[ ] Siding
[ ] Fence _____ Height (exceeds 6')
[ ] Sign _____ Sq. Ft.
[ ] Pool
[ ] Retaining Wall _____ Sq. Ft.
[ ] Asbestos Abatement Subchapter 8
[ ] Lead Haz. Abatement NJAC 5:17
[ ] Radon Remediation
[X] Other OIL TANK
[ ] Demolition

FEE (Office Use Only)

	$
Administrative Surcharge	$
Minimum Fee	$
State Permit Surcharge Fee	$
TOTAL FEE	$ [redacted] 1,150.

1 White = Inspector Copy
2 Canary = Office Copy
3 Pink = Office Copy
4 Hard = Applicant Copy

2nd Tank

State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BOB MARTIN
Commissioner

Unregulated Heating Oil Tank Program
Mail Code 401-05
P.O. Box 420
Trenton, NJ 08625-0420
Phone #: 609-633-0544
Fax #: 609-984-6514

January 4, 2017

113 Union Street, LLC
21 Grand Avenue - Suite 601
Palisades Park, NJ 07650
Attn.: Daniel Lee

Re: Area of Concern: One – 1000 gallon #2 Heating Oil Underground Storage Tank System
Unrestricted Use - No Further Action Letter and Covenant Not to Sue
Block 108, Lot 6.02
113 - 117 Union Street
Palisades Park Borough, Bergen County
Program Interest #:739818, Activity Number: CSP170001
Communications Center Number: 16-11-30-1216-33

Dear Mr. Lee:

Pursuant to N.J.S.A. 58:10B-13.1 and N.J.A.C. 7:26C, the New Jersey Department of Environmental Protection (Department) makes a determination that no further action is necessary for the remediation of the area of concern specifically referenced above, except as noted below, so long as the 113 Union Street, LLC did not withhold any information from the Department. This action is based upon information in the Department's case file and the 113 Union Street, LLC's final certified report dated December 21, 2016. In issuing this No Further Action Determination and Covenant Not to Sue, the Department has relied upon the certified representations and information provided to the Department.

By issuance of this No Further Action Determination, the Department acknowledges the completion of a Remedial Investigation and Remedial Action pursuant to the Technical Requirements for Site Remediation (N.J.A.C. 7:26E) for the area of concern specifically referenced above and no other areas.

NO FURTHER ACTION CONDITIONS

As a condition of this No Further Action Determination pursuant to N.J.S.A. 58:10B-12o, the 113 Union Street, LLC and any other person who was liable for the cleanup and removal costs, and remains liable pursuant to the Spill Act, shall inform the Department in writing within 14 calendar days whenever your name or address changes. Any notices submitted pursuant to this paragraph shall reference the above case numbers and shall be sent to: Site Remediation Program, P.O. Box 420, Trenton, NJ 08625.

By operation of law a Covenant Not to Sue pursuant to N.J.S.A. 58:10B-13.1 applies to this remediation. The Covenant Not to Sue is subject to any conditions and limitations contained herein. The Covenant Not to Sue remains effective only as long as the real property referenced above continues to meet the conditions of this Conditional No Further Action Letter.

Thank you for your attention to these matters. If you have any questions, please contact Stephen Tatar at (609) 633-0580.

Sincerely,

Yacoub Yacoub, Bureau Chief
Unregulated Heating Oil Tank Program

c: Branka Branka, Ridgefield Health Dept.
Nancy L. Mangieri, Bergen County Dept. of Health Svcs
Municipal Clerk, Palisades Park Borough
Atiqur Rahman, Sunbeam Consultants
Chris Dwyer, NJDEP/Unregulated Heating Oil Tank Program
File Copy

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certifies That

RUSSELL W ANDERSON INC
1 FYKE RD
Mahwah, NJ 07430

Having duly met the requirements of the
Underground Storage Tank Certification Program
N.J.S.A. 58:10A-24.1-8
Is hereby approved to perform the following services:

CATHODIC PROTECTION TESTER
CLOSURE
INSTALLATION-ENTIRE UST SYSTEM

04/30/2017
EXPIRATION DATE

US00904
CERTIFICATION NUMBER

TO BE CONSPICUOUSLY DISPLAYED AT THE FACILITY

SUNBEAM CONSULTANTS

"Solutions to Your Environmental Needs"

August 25, 2017

Bergen County Department of Health Services
Office of Environmental Health
220 East Ridgewood Avenue
Paramus, NJ 07652

Attn: Mr. Syed Moin

Re: 113 Union Street
Palisades Park, NJ 07650
Block 108, Lot 6.02
Spill case# 17-08-09-1251-38

Dear Mr. Moin:

Please find copy of the laboratory report of the post remedial soil samples and groundwater samples that were taken by Sunbeam Consultants as part of remedial investigation at the referenced site. The soil and water test results are below the respective NJDEP's Soil Remediation Standard and Groundwater Cleanup Criteria. Approximately 1000 gallons of fuel oil mixed water was pumped on August 11, 2017 by Tank One Company and approximately 3500 gallons of fuel oil mixed water was pumped on August 14, 2017 by Lombardo Environmental Company. Contaminated soil were excavated from the north excavation pit and stored in five 55 –gallon drums. The drums were picked by Russell Anderson Inc. on August 22, 2017. The manifests of soil and water disposal receipts will be provided as soon as they are available. Based on the soil and groundwater sampling results, Sunbeam proposes for the closure of the spill case.

Should you have any question or require additional information, please do not hesitate to contact the undersigned at (201) 873 - 7258.

Sincerely,

SUNBEAM CONSULTANTS, LLC.

Atiqur Rahman
Project Manager
NJDEP-BUST Certification #0015216

Report of Incident/Complaint

8/29/2017

Incident Date: 8/9/2017
Incident Id: 649283
Incident Type Desc: Spill
DEP Region: Northern - SRP
Incid Link ID#: 260904

Program: Site Remediation
Recd Date Time: 8/9/2017 12:51:38
Incident Status Desc: Terminated
Trenton Dispatch Num: 17-08-09-1251-38

Substances Involved

Incident Description

CALLER REPORTS SPILL FROM HEATING OIL TANKS. CLEAN UP IN PROGRESS BY BERGEN COUNTY HAZMAT.

Substance	CAS Number	Quantity	Units
OIL HEATING #2		100	gallons
Impacts To:	Land & Water	Waterbody:	

Incident Location

Follow-Up Priority: Low

IN FRONT OF

Addr: 113 UNION ST

Municipality: Palisades Park Boro County: Bergen Block, Lot:

Incident Source/Responsible Party

Name: UNKNOWN
Addr:

Phone #:
Munic:
State: NJ

Verified:
County:
Permit/Case#:

Reported By: PALISADES PARK POLICE Addr: Phone #: 201-944-0900
Name: OPER#1028 Confidential:
Municipality: Palisades Park Boro County: Bergen

Case Status: ER-Closed as of: 8/9/2017 Lead DEP Investigator/Contact:

Action/Activity

Task	Assigned Staff	Due Date	Completed Date	Hrs Spent	Incident Action Comments	Organization	User ID Last Updt	Dt/Time Last Updt
Notification - Office			8/9/17			ER - North	DPOTASHN	8/9/17 15:33
CEHA Response			8/9/17			Bergen Co. Dept. of Health Srvcs	DPOTASHN	8/9/17 15:33
Notification - Email			8/9/17			ER - North	DPOTASHN	8/9/17 15:33
Notification - Email			8/9/17			F&W - North	DPOTASHN	8/9/17 15:33
Notification - Email			8/9/17			NJSP-ROIC	DPOTASHN	8/9/17 15:33

Reporter Comments

See Existing Site Investigation & Remediation Under SRP PI 739818.

BCHD Responder Glotzer 7 Wen Tsai deployed to the site and found that construction excavation at the site uncovered petroleum contamination they believe is attrributed to existing remediation activities. LSRP will oversee cleanup as necessa

APPENDIX 1

LABORATORY REPORT OF SOIL AND GROUNDWATER

ALPHA ANALYTICAL

ANALYTICAL REPORT

Lab Number:	L1729184
Client:	Sunbeam Consultants LLC , 286 Alpine Drive Paramus, NJ 07652
ATTN:	Atiqur Rahman
Phone:	[redacted]
Project Name:	113 UNION ST
Project Number:	Not Specified
Report Date:	08/25/17

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Number: L1729184
Report Date: 08/25/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1729184-01	PE1	SOIL	PALISADES PARK	08/16/17 00:00	08/18/17
L1729184-02	PE2	SOIL	PALISADES PARK	08/16/17 00:00	08/18/17
L1729184-03	PE3	SOIL	PALISADES PARK	08/16/17 00:00	08/18/17
L1729184-04	PE4	SOIL	PALISADES PARK	08/16/17 00:00	08/18/17
L1729184-05	PE5	SOIL	PALISADES PARK	08/16/17 00:00	08/18/17
L1729184-06	TP1	WATER	PALISADES PARK	08/16/17 00:00	08/18/17

NJ DEP Data of Known Quality Protocols
Conformance/Non-Conformance
Summary Questionnaire

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	YES
1a	Were the method specified handling, preservation, and holding time requirements met?	YES
1b	EPH Method: Was the EPH Method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	YES
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were all samples received at an appropriate temperature (4 ± 2° C)?	YES
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	NO
5a	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	YES
5b	Were these reporting limits met?	NO
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	YES
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	NO

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1a or #1b is "No", the data package does not meet the requirements for "Data of Known Quality".

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

DKQP Related Narratives

Volatile Organics

In reference to question 5b:

L1729184-06: One or more of the target analytes did not achieve the requested regulatory limits.

Base/Neutral Extractables

In reference to question 4:

WG1033897-2/-3: One or more compounds failed to meet the DKQP recovery and/or RPD limits. Difficult analytes may recover at less than 10% recovery, where applicable. Please refer to the QC section of the report for specific details.

Base/Neutral Extractables by SIM

In reference to question 4:

WG1033899-2/-3: One or more compounds failed to meet the DKQP recovery and/or RPD limits. Difficult analytes may recover at less than 10% recovery, where applicable. Please refer to the QC section of the report for specific details.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Amita Naik

Title: Technical Director/Representative

Date: 08/25/17

ORGANICS

VOLATILES

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Number: L1729184
Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1729184-06
Client ID: TP1
Sample Location: PALISADES PARK

Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/23/17 00:36
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35	1
1,4-Dioxane	ND		ug/l	250	61.	1
1,2-Dibromoethane	ND		ug/l	2.0	0.19	1
Methylene chloride	ND		ug/l	2.5	0.68	1
1,1-Dichloroethane	ND		ug/l	0.75	0.21	1
Chloroform	ND		ug/l	0.75	0.22	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	0.50	0.18	1
Trichlorofluoromethane	ND		ug/l	2.5	0.16	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.45	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	0.75	0.20	1
Ethylbenzene	0.37	J	ug/l	0.50	0.17	1
Chloromethane	ND		ug/l	2.5	0.20	1
Bromomethane	ND		ug/l	1.0	0.26	1
Vinyl chloride	ND		ug/l	0.20	0.07	1
Chloroethane	ND		ug/l	1.0	0.13	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16	1

SAMPLE RESULTS

Lab ID: L1729184-06
Client ID: TP1
Sample Location: PALISADES PARK
Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19	1
Methyl tert butyl ether	ND		ug/l	1.0	0.17	1
p/m-Xylene	0.33	J	ug/l	1.0	0.33	1
o-Xylene	1.7		ug/l	1.0	0.39	1
Xylene (Total)	2.0	J	ug/l	1.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19	1
1,2-Dichloroethene (total)	ND		ug/l	0.50	0.16	1
Styrene	ND		ug/l	1.0	0.36	1
Dichlorodifluoromethane	ND		ug/l	5.0	0.24	1
Acetone	4.1	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	0.30	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42	1
2-Hexanone	ND		ug/l	5.0	0.52	1
Bromochloromethane	ND		ug/l	2.5	0.15	1
Isopropylbenzene	ND		ug/l	0.50	0.19	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	0.28	J	ug/l	10	0.27	1
Methyl cyclohexane	ND		ug/l	10	0.40	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15	1

Tentatively Identified Compounds				
Total TIC Compounds	2.63	J	ug/l	1
Indane	1.22	NJ	ug/l	1
Unknown Aromatic	1.41	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	95		70-130

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/17 20:51
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1034535-5					
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.35
1,4-Dioxane	ND		ug/l	250	61.
1,2-Dibromoethane	ND		ug/l	2.0	0.19
Methylene chloride	ND		ug/l	2.5	0.68
1,1-Dichloroethane	ND		ug/l	0.75	0.21
Chloroform	ND		ug/l	0.75	0.22
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	0.75	0.14
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	0.50	0.18
Trichlorofluoromethane	ND		ug/l	2.5	0.16
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	0.50	0.16
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	0.75	0.20
Ethylbenzene	ND		ug/l	0.50	0.17
Chloromethane	ND		ug/l	2.5	0.20
Bromomethane	ND		ug/l	1.0	0.26
Vinyl chloride	ND		ug/l	0.20	0.07
Chloroethane	ND		ug/l	1.0	0.13
1,1-Dichloroethene	ND		ug/l	0.50	0.17

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Number: L1729184
Report Date: 08/25/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/17 20:51
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1034535-5					
trans-1,2-Dichloroethene	ND		ug/l	0.75	0.16
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.18
1,3-Dichlorobenzene	ND		ug/l	2.5	0.19
1,4-Dichlorobenzene	ND		ug/l	2.5	0.19
Methyl tert butyl ether	ND		ug/l	1.0	0.17
p/m-Xylene	ND		ug/l	1.0	0.33
o-Xylene	ND		ug/l	1.0	0.39
Xylene (Total)	ND		ug/l	1.0	0.33
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.19
1,2-Dichloroethene (total)	ND		ug/l	0.50	0.16
Styrene	ND		ug/l	1.0	0.36
Dichlorodifluoromethane	ND		ug/l	5.0	0.24
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	0.30
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	0.42
2-Hexanone	ND		ug/l	5.0	0.52
Bromochloromethane	ND		ug/l	2.5	0.15
Isopropylbenzene	ND		ug/l	0.50	0.19
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.23
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.22
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
Methyl cyclohexane	ND		ug/l	10	0.40
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	2.5	0.15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/22/17 20:51
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1034535-5					
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Number: L1729184
Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1034535-3 WG1034535-4								
1,2-Dibromo-3-chloropropane	69		67		40-160	3		20
1,4-Dioxane	72		70		40-160	3		20
1,2-Dibromoethane	91		91		70-130	0		20
Methylene chloride	100		97		70-130	3		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	96		94		70-130	2		20
1,2-Dichloropropane	99		98		70-130	1		20
Dibromochloromethane	87		86		70-130	1		20
1,1,2-Trichloroethane	99		97		70-130	2		20
Tetrachloroethene	100		99		70-130	1		20
Chlorobenzene	100		100		70-130	0		20
Trichlorofluoromethane	150		140		40-160	7		20
1,2-Dichloroethane	100		98		70-130	2		20
1,1,1-Trichloroethane	100		98		70-130	2		20
Bromodichloromethane	95		93		70-130	2		20
trans-1,3-Dichloropropene	92		89		70-130	3		20
cis-1,3-Dichloropropene	93		92		70-130	1		20
Bromoform	75		74		40-160	1		20
1,1,2,2-Tetrachloroethane	93		93		40-160	0		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Number: L1729184
Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1034535-3 WG1034535-4								
Chloromethane	100		100		40-160	0		20
Bromomethane	88		90		40-160	2		20
Vinyl chloride	130		120		70-130	8		20
Chloroethane	160		160		40-160	0		20
1,1-Dichloroethene	100		100		70-130	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	96		95		70-130	1		20
1,3-Dichlorobenzene	99		98		70-130	1		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	85		84		70-130	1		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	100		99		70-130	1		20
Styrene	105		100		40-160	5		20
Dichlorodifluoromethane	120		120		40-160	0		20
Acetone	75		76		40-160	1		20
Carbon disulfide	94		90		40-160	4		20
2-Butanone	91		90		40-160	1		20
4-Methyl-2-pentanone	78		76		40-160	3		20
2-Hexanone	70		70		40-160	0		20
Bromochloromethane	100		98		70-130	2		20
Isopropylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Number: L1729184
Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1034535-3 WG1034535-4								
1,2,3-Trichlorobenzene	74		70		70-130	6		20
1,2,4-Trichlorobenzene	80		78		70-130	3		20
Methyl Acetate	89		85		70-130	5		20
Cyclohexane	100		100		70-130	0		20
Methyl cyclohexane	100		98		70-130	2		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		99		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	95		95		70-130
Dibromofluoromethane	100		100		70-130

SEMIVOLATILES

SAMPLE RESULTS

Lab ID: L1729184-06
Client ID: TP1
Sample Location: PALISADES PARK

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 08/24/17 15:18
Analyst: KV

Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 08/21/17 13:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Base/Neutral Extractables by GC/MS- Westborough Lab - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.59	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
2-Chloronaphthalene	ND		ug/l	2.0	0.64	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
Fluoranthene	ND		ug/l	2.0	0.57	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Hexachloroethane	ND		ug/l	2.0	0.68	1
Isophorone	ND		ug/l	5.0	0.60	1
Naphthalene	ND		ug/l	2.0	0.68	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Chrysene	ND		ug/l	2.0	0.54	1
Acenaphthylene	ND		ug/l	2.0	0.66	1
Anthracene	ND		ug/l	2.0	0.64	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.61	1
Fluorene	ND		ug/l	2.0	0.62	1
Phenanthrene	ND		ug/l	2.0	0.61	1
Pyrene	ND		ug/l	2.0	0.57	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1

SAMPLE RESULTS

Lab ID: L1729184-06
Client ID: TP1
Sample Location: PALISADES PARK
Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Base/Neutral Extractables by GC/MS- Westborough Lab - Westborough Lab						
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
2-Methylnaphthalene	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
Benzaldehyde	ND		ug/l	5.0	1.1	1
Acetophenone	ND		ug/l	5.0	0.85	1
Caprolactam	ND		ug/l	10	3.6	1
Biphenyl	ND		ug/l	2.0	0.76	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Atrazine	ND		ug/l	3.0	1.8	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	70		30-130
2-Fluorobiphenyl	70		30-130
4-Terphenyl-d14	72		30-130

SAMPLE RESULTS

Lab ID: L1729184-06
Client ID: TP1
Sample Location: PALISADES PARK

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/23/17 17:34
Analyst: DV

Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 08/21/17 14:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Base/Neutral Extractables by GC/MS-SIM - Westborough Lab						
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02	1
Indeno(1,2,3-cd)pyrene	0.03	J	ug/l	0.10	0.02	1
Hexachlorobenzene	ND		ug/l	0.02	0.005	1
Hexachlorobutadiene	ND		ug/l	1.0	0.01	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	48		30-130
2-Fluorobiphenyl	52		30-130
4-Terphenyl-d14	48		30-130

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/24/17 02:33
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/21/17 13:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1033897-1					
Acenaphthene	ND		ug/l	2.0	0.59
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
2-Chloronaphthalene	ND		ug/l	2.0	0.64
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
Fluoranthene	ND		ug/l	2.0	0.57
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Hexachloroethane	ND		ug/l	2.0	0.68
Isophorone	ND		ug/l	5.0	0.60
Naphthalene	ND		ug/l	2.0	0.68
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63
Dimethyl phthalate	ND		ug/l	5.0	0.65
Chrysene	ND		ug/l	2.0	0.54
Acenaphthylene	ND		ug/l	2.0	0.66
Anthracene	ND		ug/l	2.0	0.64
Benzo(ghi)perylene	ND		ug/l	2.0	0.61
Fluorene	ND		ug/l	2.0	0.62
Phenanthrene	ND		ug/l	2.0	0.61
Pyrene	ND		ug/l	2.0	0.57

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/24/17 02:33
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/21/17 13:56

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1033897-1					
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylnaphthalene	ND		ug/l	2.0	0.72
Carbazole	ND		ug/l	2.0	0.63
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
Benzaldehyde	ND		ug/l	5.0	1.1
Acetophenone	ND		ug/l	5.0	0.85
Caprolactam	ND		ug/l	10	3.6
Biphenyl	ND		ug/l	2.0	0.76
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Atrazine	ND		ug/l	3.0	1.8
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	82		30-130
2-Fluorobiphenyl	76		30-130
4-Terphenyl-d14	88		30-130

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/23/17 10:58
Analyst: KV

Extraction Method: EPA 3510C
Extraction Date: 08/21/17 14:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 06 Batch: WG1033899-1					
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.02
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.02
Hexachlorobenzene	ND		ug/l	0.02	0.005
Hexachlorobutadiene	ND		ug/l	1.0	0.01

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	64		30-130
2-Fluorobiphenyl	69		30-130
4-Terphenyl-d14	68		30-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Number: L1729184
Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1033897-2 WG1033897-3								
Acenaphthene	84		81		70-130	4		20
Bis(2-chloroethyl)ether	94		90		70-130	4		20
2-Chloronaphthalene	84		87		70-130	4		20
2,4-Dinitrotoluene	90		90		70-130	0		20
2,6-Dinitrotoluene	90		91		70-130	1		20
Fluoranthene	95		90		70-130	5		20
4-Chlorophenyl phenyl ether	88		88		70-130	0		20
Bis(2-chloroisopropyl)ether	87		84		70-130	4		20
Bis(2-chloroethoxy)methane	98		92		70-130	6		20
Hexachlorocyclopentadiene	49		54		20-160	10		20
Hexachloroethane	59		60		20-160	2		20
Isophorone	94		91		70-130	3		20
Naphthalene	72		73		70-130	1		20
Nitrobenzene	96		94		70-130	2		20
NDPA/DPA	100		90		70-130	11		20
n-Nitrosodi-n-propylamine	99		95		70-130	4		20
Bis(2-ethylhexyl)phthalate	100		96		70-130	4		20
Butyl benzyl phthalate	94		91		70-130	3		20
Di-n-butylphthalate	103		100		70-130	3		20
Di-n-octylphthalate	100		99		70-130	1		20
Diethyl phthalate	95		92		70-130	3		20
Dimethyl phthalate	94		95		70-130	1		20
Chrysene	86		85		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Number: L1729184
Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1033897-2 WG1033897-3								
Acenaphthylene	88		90		70-130	2		20
Anthracene	92		87		70-130	6		20
Benzo(ghi)perylene	108		97		70-130	11		20
Fluorene	89		86		70-130	3		20
Phenanthrene	88		84		70-130	5		20
Pyrene	90		87		70-130	3		20
4-Chloroaniline	88		75		20-160	16		20
2-Nitroaniline	98		99		70-130	1		20
3-Nitroaniline	84		77		70-130	9		20
4-Nitroaniline	96		89		70-130	8		20
Dibenzofuran	89		87		70-130	2		20
2-Methylnaphthalene	78		80		70-130	3		20
Carbazole	98		94		70-130	4		20
4-Bromophenyl phenyl ether	102		97		70-130	5		20
3,3'-Dichlorobenzidine	84		62	Q	70-130	30	Q	20
Benzaldehyde	85		84		20-160	1		20
Acetophenone	86		83		70-130	4		20
Caprolactam	42		41		20-160	2		20
Biphenyl	89		92		70-130	3		20
1,2,4,5-Tetrachlorobenzene	76		84		70-130	10		20
Atrazine	102		95		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Number: L1729184
Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1033897-2 WG1033897-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	100		96		30-130
2-Fluorobiphenyl	88		87		30-130
4-Terphenyl-d14	90		87		30-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Number: L1729184
Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 06 Batch: WG1033899-2 WG1033899-3								
Benzo(a)anthracene	67	Q	72		70-130	7		20
Benzo(a)pyrene	65	Q	70		70-130	7		20
Benzo(b)fluoranthene	66	Q	72		70-130	9		20
Benzo(k)fluoranthene	68	Q	74		70-130	8		20
Dibenzo(a,h)anthracene	64	Q	69	Q	70-130	8		20
Indeno(1,2,3-cd)pyrene	66	Q	72		70-130	9		20
Hexachlorobenzene	72		79		70-130	9		20
Hexachlorobutadiene	61	Q	68	Q	70-130	11		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	65		76		30-130
2-Fluorobiphenyl	67		76		30-130
4-Terphenyl-d14	60		64		30-130

PETROLEUM HYDROCARBONS

Project Number: Not Specified

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1729184-01
Client ID: PE1
Sample Location: PALISADES PARK

Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 08/22/17 16:56
Analyst: MEO
Percent Solids: 84%

Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 08/21/17 14:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	214		mg/kg	27.6	27.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	90		40-140
o-Terphenyl	91		40-140

Project Number: Not Specified

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1729184-02
Client ID: PE2
Sample Location: PALISADES PARK

Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 08/22/17 17:28
Analyst: MEO
Percent Solids: 82%

Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 08/21/17 14:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	188		mg/kg	27.8	27.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	85		40-140
o-Terphenyl	85		40-140

Project Number: Not Specified

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1729184-03
Client ID: PE3
Sample Location: PALISADES PARK

Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 08/22/17 17:59
Analyst: MEO
Percent Solids: 85%

Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 08/21/17 14:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	923		mg/kg	27.9	27.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	103		40-140
o-Terphenyl	91		40-140

Project Number: Not Specified

SAMPLE RESULTS

Report Date: 08/25/17

Lab ID: L1729184-04
Client ID: PE4
Sample Location: PALISADES PARK

Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 08/21/17 14:34

Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 08/22/17 18:30
Analyst: MEO
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	935		mg/kg	28.5	28.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	100		40-140
o-Terphenyl	91		40-140

Project Number: Not Specified

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1729184-05
Client ID: PE5
Sample Location: PALISADES PARK

Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 08/22/17 19:01
Analyst: MEO
Percent Solids: 56%

Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 08/21/17 14:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	99.3		mg/kg	42.2	42.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	82		40-140
o-Terphenyl	84		40-140

Method Blank Analysis
Batch Quality Control

Analytical Method: 103,NJDEP EPH
Analytical Date: 08/22/17 14:51
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 08/21/17 14:33

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 01-05 Batch: WG1033909-1					
Total EPH	ND		mg/kg	23.6	23.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	81		40-140
o-Terphenyl	79		40-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Number: L1729184
Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01-05 Batch: WG1033909-2 WG1033909-3								
Total EPH	89		92		40-140	3		25
Nonane (C9)	72		74		40-140	3		25
Decane (C10)	78		79		40-140	1		25
Dodecane (C12)	79		81		40-140	3		25
Tetradecane (C14)	81		84		40-140	4		25
Hexadecane (C16)	83		87		40-140	5		25
Octadecane (C18)	85		88		40-140	3		25
Eicosane (C20)	84		88		40-140	5		25
Heneicosane (C21)	85		88		40-140	3		25
Docosane (C22)	84		87		40-140	4		25
Tetracosane (C24)	84		87		40-140	4		25
Hexacosane (C26)	83		87		40-140	5		25
Octacosane (C28)	81		85		40-140	5		25
Triacontane (C30)	80		84		40-140	5		25
Dotriacontane (C32)	80		84		40-140	5		25
Tetratriacontane (C34)	79		82		40-140	4		25
Hexatriacontane (C36)	82		84		40-140	2		25
Octatriacontane (C38)	90		85		40-140	6		25
Tetracontane (C40)	82		84		40-140	2		25

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Control Sample Analysis
Batch Quality Control

Lab Number: L1729184
Report Date: 08/25/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01-05 Batch: WG1033909-2 WG1033909-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	80		82		40-140
o-Terphenyl	81		83		40-140

Matrix Spike Analysis
Batch Quality Control

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Number: L1729184
Report Date: 08/25/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1033909-4 QC Sample: L1728994-01 Client ID: MS Sample												
Total EPH	ND	264	283	107		-	-		40-140	-		50
Nonane (C9)	ND	7.33	5.88	80		-	-		40-140	-		50
Decane (C10)	ND	7.33	6.37	87		-	-		40-140	-		50
Dodecane (C12)	ND	7.33	6.50	89		-	-		40-140	-		50
Tetradecane (C14)	ND	7.33	6.78	92		-	-		40-140	-		50
Hexadecane (C16)	ND	7.33	7.33	100		-	-		40-140	-		50
Octadecane (C18)	ND	7.33	7.64	104		-	-		40-140	-		50
Eicosane (C20)	ND	7.33	7.63	104		-	-		40-140	-		50
Heneicosane (C21)	ND	7.33	7.65	104		-	-		40-140	-		50
Docosane (C22)	ND	7.33	7.58	103		-	-		40-140	-		50
Tetracosane (C24)	ND	7.33	7.57	103		-	-		40-140	-		50
Hexacosane (C26)	ND	7.33	7.54	103		-	-		40-140	-		50
Octacosane (C28)	ND	7.33	7.40	101		-	-		40-140	-		50
Triacontane (C30)	ND	7.33	7.33	100		-	-		40-140	-		50
Dotriacontane (C32)	ND	7.33	7.32	100		-	-		40-140	-		50
Tetratriacontane (C34)	ND	7.33	7.10	97		-	-		40-140	-		50
Hexatriacontane (C36)	ND	7.33	7.32	100		-	-		40-140	-		50
Octatriacontane (C38)	ND	7.33	7.17	98		-	-		40-140	-		50
Tetracontane (C40)	ND	7.33	6.98	95		-	-		40-140	-		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Chloro-Octadecane	97				40-140

Matrix Spike Analysis
Batch Quality Control

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Number: L1729184
Report Date: 08/25/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1033909-4 QC Sample: L1728994-01 Client ID: MS Sample												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
o-Terphenyl	97				40-140

Project Name: 113 UNION ST
Project Number: Not Specified

Serial_No:08251713:30

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1729184
Report Date: 08/25/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1033909-5 QC Sample: L1728994-01 Client ID: DUP Sample						
Total EPH	ND	ND	mg/kg	NC		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	91		78		40-140
o-Terphenyl	91		79		40-140

INORGANICS
&
MISCELLANEOUS

Project Name: 113 UNION ST
Project Number: Not Specified

Serial_No:08251713:30
Lab Number: L1729184
Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1729184-01
Client ID: PE1
Sample Location: PALISADES PARK
Matrix: Soil

Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	08/19/17 11:36	121,2540G	RI

Project Name: 113 UNION ST

Project Number: Not Specified

Lab Number: L1729184

Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1729184-02
Client ID: PE2
Sample Location: PALISADES PARK
Matrix: Soil

Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
eneral Chemistry - Westborough Lab										
olids, Total	81.8		%	0.100	NA	1	-	08/19/17 11:36	121,2540G	RI

Project Name: 113 UNION ST
Project Number: Not Specified

Serial_No:08251713:30
Lab Number: L1729184
Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1729184-03
Client ID: PE3
Sample Location: PALISADES PARK
Matrix: Soil

Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	08/19/17 11:36	121,2540G	RI

SAMPLE RESULTS

Lab ID: L1729184-04
Client ID: PE4
Sample Location: PALISADES PARK
Matrix: Soil

Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.7		%	0.100	NA	1	-	08/19/17 11:36	121,2540G	RI

Project Name: 113 UNION ST
Project Number: Not Specified

Lab Number: L1729184
Report Date: 08/25/17

SAMPLE RESULTS

Lab ID: L1729184-05
Client ID: PE5
Sample Location: PALISADES PARK
Matrix: Soil

Date Collected: 08/16/17 00:00
Date Received: 08/18/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
eneral Chemistry - Westborough Lab										
olids, Total	56.2		%	0.100	NA	1	-	08/19/17 11:36	121,2540G	RI

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1729184-01A	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		NJEPH-TPH-CAT1(14),TS(7)
L1729184-02A	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		NJEPH-TPH-CAT1(14),TS(7)
L1729184-03A	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		NJEPH-TPH-CAT1(14),TS(7)
L1729184-04A	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		NJEPH-TPH-CAT1(14),TS(7)
L1729184-05A	Glass 120ml/4oz unpreserved	A	NA		4.6	Y	Absent		NJEPH-TPH-CAT1(14),TS(7)
L1729184-06A	Vial HCl preserved	A	NA		4.6	Y	Absent		NJ-8260(14)
L1729184-06B	Vial HCl preserved	A	NA		4.6	Y	Absent		NJ-8260(14)
L1729184-06D	Amber 1000ml unpreserved	A	7	7	4.6	Y	Absent		NJ-BNEXT(7),NJ-BNEXT-SIM(7)

*Values in parentheses indicate holding time in days

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.
Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E.

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.