



Liberty Environmental, Inc.

50 N. Fifth St., 5th Floor, Reading, PA 19601 610-375-9301 Fax 610-375-9302 www.libertyenviro.com

April 20, 2012

Mr. David Brown
Pennsylvania Department of Environmental Protection
2 East Main Street
Norristown, PA 19401

**Re: Combined Site Characterization Report/Remedial Action Completion Report
Sodium Hypochlorite Spill
American Pool Service
Radnor Township, Delaware County, Pennsylvania
DEP Facility ID No. 23-45047
Liberty Project No. 120096**

Dear Mr. Brown:

Enclosed please find a combined Site Characterization Report/Remedial Action Completion Report for the above-referenced facility, which was prepared in response to a release of sodium hypochlorite at the facility.

If you have any questions regarding this report, please feel free to call me at (610) 375-9301, extension 212.

Sincerely,
Liberty Environmental, Inc.

James P. Cinelli, P.E., BCEE
Principal Consultant

Enclosure

cc: Brian Good – Buckman's, Inc.
Mark Miller – American Pool Service, Inc.

DEF. RECEIVED
SOUTHEAST REGION
APR 23 '12

Corrective Action Process Report/Plan Cover Sheet

CHAPTER 245 STORAGE TANK ACT

- ☐ Site Characterization Report – Section 245.310(b)
- ☒ Site Characterization Report – Site-Specific Standard
- ☐ Site Characterization Report – Statewide Health or Background Standard
- ☐ Site Characterization Report PLUS – Statewide Health Standard
- ☐ Remedial Action Plan – Statewide Health or Background Standard
- ☐ Remedial Action Plan – Site Specific Standard
- ☐ Remedial Action Progress Report
- ☐ Remedial Action Completion Report – Statewide Health or Background Standard
- ☒ Remedial Action Completion Report – Site-Specific Standard
- ☐ Environmental Covenant

TOP - RECEIVED
SOUTHEAST REGION

APR 23 '12

(check all that apply to the enclosed submission)

COMBINED SITE CHARACTERIZATION AND REMEDIAL ACTION COMPLETION REPORT

American Pool Service

210 North Aberdeen Road
Delaware County, Pennsylvania
Facility ID No. 23-45047

Prepared for:



Buckman's Inc.
105 Airport Road
Pottstown, PA 19464

Prepared by:



Liberty Environmental, Inc.
50 N. 5th Street, 5th Floor
Reading, PA 19601

Liberty Project No. 120096

April 20, 2011

Prepared by:


Jason M. Spanier
Project Geologist

Reviewed by:

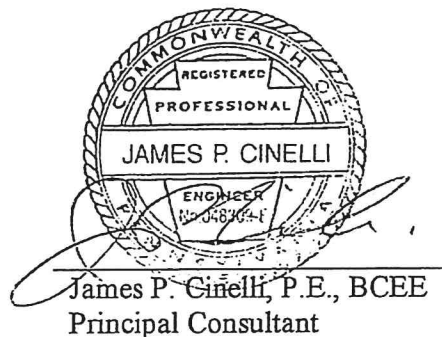

James P. Cinelli, P.E., BCEE
Principal Consultant

Combined Site Characterization and Remedial Action Completion Report

American Pool Service, Inc.
210 North Aberdeen Road, Radnor Township
Delaware County, Pennsylvania
Facility ID No. 23-45047

April 20, 2012

This report was prepared by Liberty Environmental, Inc. under the direct supervision of
Mr. James P. Cinelli



James P. Cinelli, P.E., BCEE
Principal Consultant

4-20-12
Date

By affixing my seal to this document, I am certifying that the information is true and correct. I further certify I am licensed to practice in the Commonwealth of Pennsylvania and that it is within my professional expertise to verify the correctness of the information.

1. INTRODUCTION

Liberty Environmental, Inc. (Liberty) was retained by Buckman's Inc. (Buckman's) to perform sampling and reporting pursuant to a sodium hypochlorite release at the American Pool Service store, located at 210 North Aberdeen Road in Radnor Township, Delaware County, Pennsylvania (site). The location of the release occurred just to the southwest of the store in the facility's back lot. Two above-ground storage tanks (ASTs) containing sodium hypochlorite is located in this area and is a part of normal business operations, being a pool service provider. The two ASTs are surrounded by a concrete secondary containment wall. Details of the remedial activities and post-excavation screening and sampling are provided in Section 2. The site location is indicated on Figure 1.

1.1 SITE BACKGROUND

On September 16, 2011, a release of unknown volume of sodium hypochlorite occurred at the subject property during the filling of two ASTs located behind the store. While filling the first AST, a closed valve prevented the transfer of sodium hypochlorite to the second AST, causing the first tank to overflow into the secondary containment area. The secondary containment drainage valve was left open causing the release of sodium chlorite to nearby soils.

Following the release, Lewis Environmental (Lewis) of Royersford, PA mobilized to the site to perform cleanup and soil screening services. Impacted soils were excavated and disposed of off-site. Confirmatory soil sampling by Liberty in March 2012 indicated that none of the samples collected created a leachate exceeding the Pennsylvania Department of Environmental Protection's (DEP) Secondary Maximum Concentration Level (SMCL). Secondary SMCLs are not based on health risks but rather other quality considerations such as taste and odor. Since there is no promulgated Statewide Health Standard (SHS) for chlorides in soil, the method of leachate analysis addresses the soil to groundwater pathway. As set forth in a DEP memo dated September 2, 2011, the remediator may conduct leaching tests on soil to demonstrate that the leachate does not exceed the published Medium Specific Concentration (MSC) for chloride in groundwater (250 mg/L).

Analytical results for the post-excavation soil samples indicate that the chloride leachate concentration did not exceed the SMCL for chloride in groundwater. Therefore, Liberty has prepared this Combined Site Characterization and Remedial Action Completion Report, in accordance with the requirements set forth in 25 PA Code 245.312. This report requests closure of the site through the PADEP Storage Tank Corrective Action process.

1.2 SITE DESCRIPTION

The site is located at 210 North Aberdeen Road in Radnor Township, Delaware County, Pennsylvania. The property is bordered by North Aberdeen Road to the east. The subject

property has been improved with a single story building and currently operates as American Pool Services, a full service pool and spa equipment supplier. The site is primarily residential and is surrounded by other residences and sporadic businesses. The subject site and surrounding properties are provided with public water from Aqua America. A Site Location Map and Site Diagram are provided as Figures 1 and 2, respectively.

According to the USGS 7.5-Minute Topographic Quadrangle Map for the site (Valley Forge, Pennsylvania), the elevation of the site is approximately 380 feet above mean sea level. The site topography is relatively flat; however, the general topography of the surrounding area slopes gently to the north/northwest toward Gulf Creek, located approximately 0.09 mile from the site.

According to the Pennsylvania State University soil information website (<http://soilmap.psu.edu/>), the soil beneath the impacted area is mapped as Made land (Md), gabbro and diabase material with no slope range slope. The Md soil series is considered well drained with a seasonal high water table of greater than 60 inches. There is no flooding potential in this soil series and the profile permeability is unspecified.

According to the Pennsylvania State University soil information website (<http://soilmap.psu.edu/>), geology beneath the site is mapped as mafic gneiss (mgp) of Precambrian age. The dominant lithology of this formation is mafic gneiss with no secondary lithologies identified. The publication *Engineering Characteristics of the Rocks of Pennsylvania* (1982), states that mafic gneiss is poorly bedded with irregular joint patterns. Joints are considered moderately to poorly formed, moderate in abundance, steeply dipping to vertical, and open. This rock unit is highly resistant to weathering and provides good surface drainage. In this stratigraphic series, joints provide a very low secondary porosity. Median well yields in mafic gneiss are estimated to be 20 gal/min.

2. SITE CHARACTERIZATION & REMEDIATION

2.1 REMEDIAL ACTIVITIES

On September 16 Lewis, performed remedial activities at the site which included the excavation of impacted soils around the containment. During the excavation, Lewis excavated impacted stone and soil from an approximate 50 foot by 50 foot area adjacent to the AST containment area. Following the excavation of soils, the excavation was then field screened with pH litmus paper to confirm neutral readings and that soil impacted by the sodium hypochlorite release had been removed.

All excavated soil was placed into two lined, 20 cubic yard roll-off containers. Environmental Recovery Corporation of Lancaster, Pennsylvania transported the soil to Modern Landfill in York, Pennsylvania. A total of 35.68 tons of impacted soil was removed from the site. Copies of all disposal documentation are provided in Appendix A.

It should also be noted that neither groundwater nor bedrock was encountered during excavation activities.

2.2 POST EXCAVATION SOIL SAMPLING

On March 27, 2012, Liberty collected three post-excavation soil samples at the three locations exhibiting the highest pH levels during the post-excavation sampling performed by Lewis in January 2012. As previously discussed, these soil samples were collected in the area just outside of the AST containment area. Post-excavation soil sampling activities included the removal of surface stone and soil to a confirmed depth ranging between 4 and 5 inches below grade. Similar to the post-excavation samples collected in January 2012, one soil sample (SS-E-4") and two soil samples (SS-A-5" and SS-D-5") were collected from a depth of 4 and 5 inches below grade, respectively. The location of the post-excavation soil samples can be seen in Figure 2.

All post-excavation soil samples were collected using dedicated sampling equipment and placed into laboratory-supplied bottleware, preserved as necessary according to analytical methods, placed on ice, and submitted under chain-of-custody documentation to Test America, Inc. (TestAmerica) of King of Prussia, Pennsylvania for analysis of total chlorides using the Synthetic Precipitation Leaching Procedure (SPLP) method.

2.3 LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the post-excavation soil samples indicate that only one sample (SS-E-4") detected chloride above the laboratory reporting limit. SS-E-4" recorded a chloride

leachate concentration of 29 mg/L. Compared to the MSC for chloride in groundwater, this value is well below the standard of 250 mg/L. Chloride was not detected in any other post-excavation soil sample above laboratory reporting limits. It should be noted that there is no DEP chloride standard for soils, either for residential or non-residential DEP direct contact MSC (MSC_{DC}) or residential soil-to-groundwater MSC (MSC_{SOIL-to-GW}) pathways. A summary of the post-excavation soil analytical data is provided as Table 1 and a copy of the laboratory analytical report is provided in Attachment C.

3. RECEPTOR EVALUATION

3.1 HUMAN RECEPTOR EVALUATION

Liberty evaluated potential exposure pathways and performed a survey of potential receptors in the areas which have been, or may be, affected by the release at the subject site. The purpose of the survey was to identify and evaluate the risks posed by potential exposure at identified receptor points. The following sections summarize our findings.

3.1.1 Water Supply Wells

The subject site and surrounding area are supplied with public water by Aqua America. Furthermore, groundwater was not impacted by the release and soil leachate concentrations from post-remediation soil samples were well below the 250 mg/L MCL for chloride in groundwater. Therefore, there is no completed exposure pathways associated with groundwater quality.

3.1.2 Direct contact with soil

There is no DEP residential or non-residential ~~direct contact~~ standard for individual chloride substances or for total chlorides in soil. Therefore, ~~chloride exposure~~ through direct contact with soils is not an exposure pathway of concern.

3.1.3 Soil Vapor Intrusion Evaluation

Liberty reviewed the PADEP's Land Recycling Program Technical Guidance Manual – Section IV.A.4. “Vapor Intrusion into Buildings from Groundwater and Soil under the Act 2 Statewide Health Standard” dated January 24, 2004. Since chloride is not a volatile organic compound vapor intrusion is not an issue at this site and no further vapor intrusion evaluation is needed.

3.2 ECOLOGICAL RECEPTOR EVALUATION

Pursuant to the requirements of 25 PA Code §250.402(c), Liberty evaluated potential current and/or future exposure pathways to ecological receptors, as identified in 25 PA Code §250.311(a)(1-4). These receptors include threatened or endangered species; exceptional value wetlands; habitats of concern; and species of concern. Liberty performed a Pennsylvania Natural Diversity Inventory (PNDI) search for the site using the default search radius.

The PNDI search results did not identify any potential impacts. The site is located in an residential setting and reconnaissance of the surrounding area also did not reveal any potential ecological receptors.

Based on the aforementioned review, there are no known exceptional value wetlands, threatened or endangered species as designated by the U.S. Fish and Wildlife Service under the Endangered Species Act, habitats of concern, or species of concern on the site or in the area surrounding the site. Therefore, the conditions listed in §250.311(a)(1-4) are not present, and as such there can be no completed pathways to these ecological receptors and no need for further review pursuant to 25 PA Code §250.402(c). A copy of the PNDI search results report is provided in Appendix E.

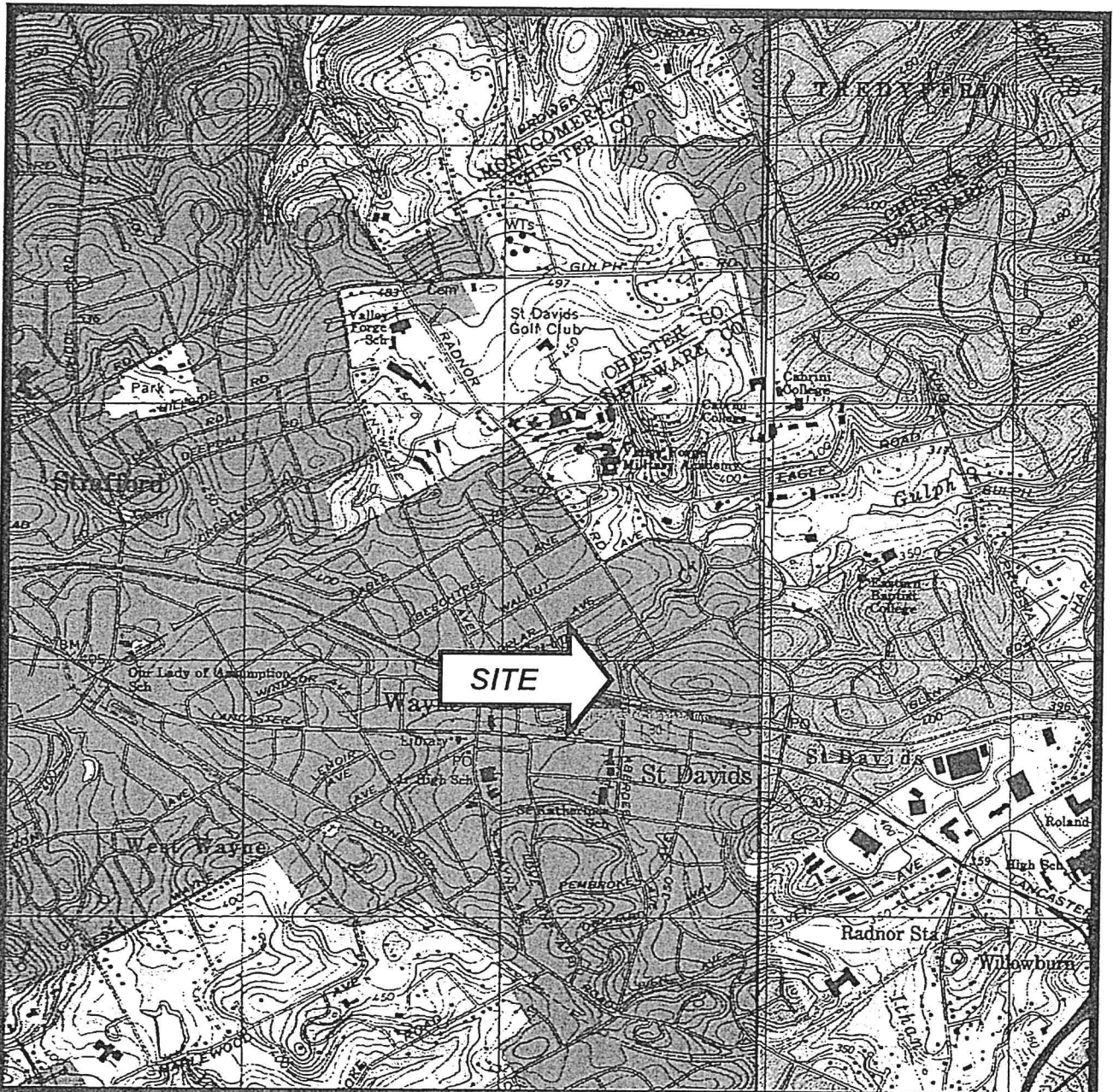
4. DEMONSTRATION OF ATTAINMENT

As noted earlier, the remediator is seeking a release of liability for chloride in soil. Groundwater is not considered a medium of concern at this site. Since there is no SHS for total chlorides or individual chloride substances in soil, SPLP leaching tests were conducted and confirmed that all analytical results were either below laboratory reporting limits or well below the promulgated secondary MSC for chloride in groundwater, as set forth by the United States Environmental Protection Agency (EPA). As such, analytical results from the post-remediation soil sampling demonstrate attainment by a site-specific standard through pathway elimination pursuant to 25 PA Code, Chapter 250 Subchapter D and G. The responsible party has met their remedial obligations, and no further remedy is required at the site.

5. CONCLUSIONS

As documented in this report, American Pool Service, located at 210 North Aberdeen Road, Radnor Township, Delaware County, Pennsylvania, has addressed and meet Site-Specific Standards for chlorides in soil through pathway elimination, pursuant to the requirements of 25 PA Code Chapter 250, without any further remediation. As such, American Pool Service has met their remedial obligations under 25 PA Code Chapter 245, and no further remedy is required at the site.

Based on the information detailed within this combined Site Characterization and Remedial Action Completion Report, Liberty is requesting closure of the site through the PADEP Storage Tank Corrective Action process, as set forth in 25 PA Code 245.312, including liability protection extended to regulated storage tank sites as specified in Act 2 of 1995, Section 904(c).



Liberty
Environmental, Inc.

50 N. Fifth Street, Fifth Floor
Reading, PA 19601
Phone: 610-375-9301
Fax: 610-375-9302

FIGURE 1: SITE LOCATION MAP

210 NORTH ABERDEEN ROAD

RADNOR TWP., DELAWARE COUNTY, PA

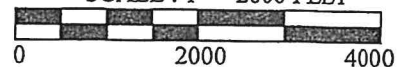
USGS MAP QUADRANGLE: VALLEY FORGE, PA

LIBERTY PROJECT NO. 120096

APRIL 12, 2012



SCALE: 1" = 2000 FEET



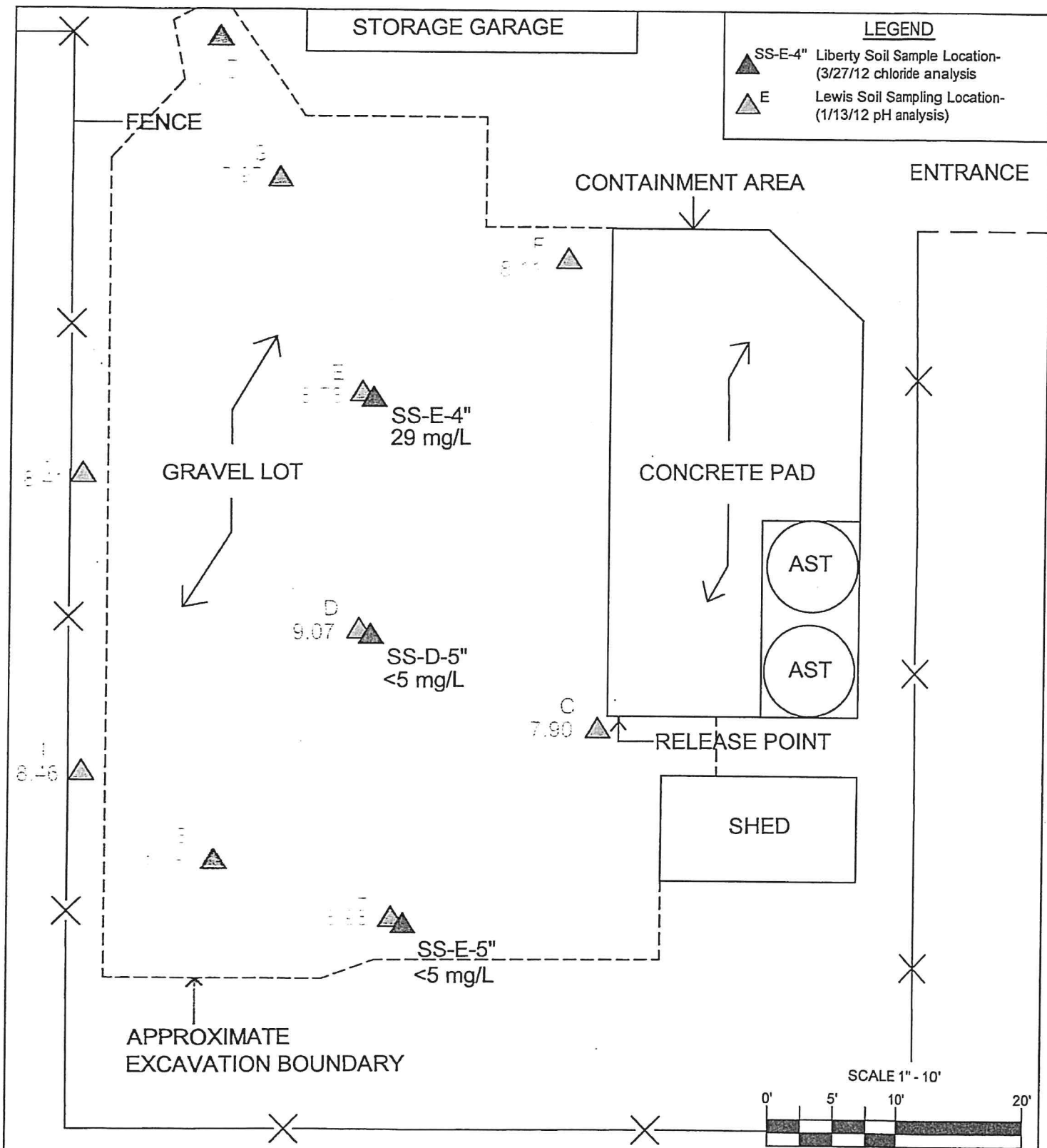


Figure 2 - Soil Screening & Sampling Diagram

American Pool Service
 210 North Aberdeen Road
 Radnor Township, Delaware County, Pennsylvania

PROJECT NO. - 120096

REV - 0

PREPARED BY: JMS

Liberty Environmental, Inc.

50 N. Fifth St. 5th Floor
 Reading, PA 19601
 Phone: 610-375-9301

TABLE 1
Soil Analytical Results Summary
 American Pool Service
 210 North Aberdeen Road, Radnor Twp., Delaware County, PA
 Liberty Project No. 120096

DEP Medium Specific Concentrations (Residential)		Laboratory Analysis	
Groundwater ¹		pH	SPLP Chloride (in mg/L)
Sample ID	Sample Date		
A	1/13/12	8.98	---
B	1/13/12	8.64	---
C	1/13/12	7.90	---
D	1/13/12	9.07	---
E	1/13/12	8.78	---
F	1/13/12	8.11	---
G	1/13/12	7.97	---
H	1/13/12	8.37	---
I	1/13/12	8.46	---
J	1/13/12	8.41	---
SS-A-5"	3/27/12	---	<5.0
SS-D-5"	3/27/12	---	<5.0
SS-E-4"	3/27/12	---	29

Notes:

1. Based on the Secondary Maximum Concentration Level (SMCL) promulgated by EPA.
2. pH samples collected on 1/13/2012 by Lewis Environmental.
3. SPLP chloride samples collected on 3/27/2012 by Liberty Environmental Inc. using Synthetic Precipitation Leaching Procedure (SPLP) method.
4. < Denotes that the analyte was not detected above laboratory reporting limits.

ENVIRONMENTAL RECOVERY CORPORATION NON-HAZARDOUS WASTE MANIFEST

G E N E R A T O R	Generator Name and Site Address Buckmans, Inc. 210 North Aberdeen Avenue Wayne, PA 19087		Manifest No. <div style="font-size: 1.2em; font-weight: bold;">91697</div>	
			Generator Contact Brian Good	
			Generator Phone 610-495-7495	
	Transporter Company Name Landa Environmental		US EPA ID Number PAD0097270040	
	Transporter Company Address P.O. Box 639, Royersford, PA 19168		Transporter Contact Jim Gould	
			Transporter Phone 800-258-5585	
	Designated Facility Name and Site Address Environmental Recovery Corporation 1076 Old Manheim Pike Lancaster, PA 17601		US EPA ID Number PAD987266749	
			State Facility's ID Number 301344	
			Facility's Phone (717) 393-2627	
	WASTE DESCRIPTION		Containers	
			No.	Type
	a. Non-Hazardous Waste Solid Non-DOT Regulated/Non-RCRA Hazardous (Sodium hypochlorite impurities & sludge)		00	CM
	Other Comments			
			Job# 11023PL	
	TYPES OF CONTAINERS BA = Burlap, cloth, paper or plastic bags, super sac CF = Fiber or plastic boxes, cartons, cases, cubic yd. box CM = Metal boxes, cartons, cases (including roll-offs) CW = Wooden boxes, cartons, cases, pallet DF = Fiberboard or plastic drums, barrels, kegs		UNITS OF MEASURE (UOM) G = Gallons (liquids only) P = Pounds T = Tons (2000 pounds) Y = Cubic Yards	
			DM = Metal drums, barrels, kegs, pails DT = Drums tank DW = Wooden drums, barrels, kegs TT = Cargo tanks (tank trucks) TP = Liquid / tanks	
	I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.			
	Printed / Typed Name Brian J. Good - Agent for Generator		Signature 	
			Date Month Day Year 10/10/11	
	Transporter Acknowledgement of Receipt of Materials		Date	
	Printed / Typed Name Jim Gould		Signature 	
			Month Day Year 10/11/11	
	Discrepancy Indication Space			
	Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted above			
	Printed / Typed Name T. Trammell		Signature 	
			Date Month Day Year 10/11/11	

White Copy: Environmental Recovery Corp.

Yellow Copy: Invoice Copy

Pink Copy: Transporter

Gold Copy: Generator



REPUBLIC
SERVICES, INC.

07 093122

NON-HAZARDOUS WASTE MANIFEST

GENERATOR INFORMATION

Generator Name: Lancaster Oil Company

Address: 1076 Old Manheim Pike

City: Lancaster County: Lancaster

State: Pa Zip: 17601

Site Location (if different): _____

CUSTOMER/BILLING INFORMATION

Billing Name: Lancaster Oil Company

Address: 1076 Old Manheim Pike

City: Lancaster County: Lancaster

State: Pa Zip: 17601

Republic Services Approval Number	Description of Waste	Volume/Weight	Expiration Date	Container Type
11-11542	Comingled Residual Waste	20 ton	08/2012	XX1CM

*Attach Additional Sheet if necessary.

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Troy P Tremellen
Generator/Authorized Agent Name

X
Signature

10/11/2011
Date Shipped

TRANSPORTER INFORMATION

Transporter Name: Lewis Environmental Services DOT Number: _____

Address: Railroad Ave Truck Number: 79

Royersford, Pa Phone Number: 610-495-6695

I certify no hazardous waste or other regulated substance was knowingly introduced to the waste while in my custody. The waste transported in this vehicle is the waste identified above, to the best of my knowledge.

RETAIL LEASING
Name of Authorized Agent

X
Signature

10/11/11
Date Delivered

DISPOSAL SITE INFORMATION

Site Name: Modern Landfill Phone Number: 717-246-2686

Address: 4400 Mt. Pisgah Road, York, PA 17406

hereby acknowledge receipt of the above described materials.

Name (Print or Type) Signature

11
Date Received

Modern Landfill

4400 ML Plisgah Rd.
York, PA 17406
(717) 246-2686
Fax (717) 244-5588



Ticket: 185263
Date: 10/11/11
Time In: 8:00 am
Time Out: 8:30 am

Scalehouse Copy

Vehicle: 12178 ROLL OFF DEP#: VIN# WH#1536

Container/Trailer/DEP#:

Customer: 000121 ENVIRONMENTAL RECOVERY CP
1076 OLD MANHEIM PIKE

00 Gross Weight 72,800.00 lb
Tare Weight 32,760.00 lb
Net Weight 40,040.00 lb

LANCASTER, PA 17601

Net Tons 20.02 TN

Reference:

Contract/Profile: 38191111542

Yards 20.00 YD

Manifest: 093122

Generator: LANCASTER OIL COMPANY

Origin:	Materials & Services	Quantity	Unit	Rate	Disposal
LANCASTER (36)	YU [08] SW-OILY MATERIAL/DEBRIS	20.02	TN		

Check #

Net Amount:

Tendered:

Change:

Driver _____

Weighmaster _____

TERRY SHERBINE 062688

Modern Landfill

4400 ML Plisgah Rd.
York, PA 17406
(717) 246-2686
Fax (717) 244-5588



Ticket: 185263
Date: 10/11/11
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Origin:	Materials & Services	Quantity	Unit	Rate	Disposal
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Check #

Net Amount:

Tendered:

Change:

Driver _____

Weighmaster _____

TERRY SHERBINE 062688

ENVIRONMENTAL RECOVERY CORPORATION NON-HAZARDOUS WASTE MANIFEST

GENERATOR	Generators Name and Site Address Bucknane, Inc. 210 North Aberdeen Avenue Wayne, PA 19087		Manifest No. <div style="font-size: 1.2em; font-weight: bold;">91696</div>																												
			Generator Contact Brian Gould																												
			Generator Phone 610-495-7405																												
	Transporter Company Name Lewis Environmental		US EPA ID Number PA0987376940																												
	Transporter Company Address P.O. Box 639, Royersford, PA 19468		Transporter Contact Jim Gould																												
TRANSPORTER			Transporter Phone 800-259-5585																												
	Designated Facility Name and Site Address Environmental Recovery Corporation 1076 Old Manheim Pike Lancaster, PA 17601		US EPA ID Number PAD987266749																												
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Discrepancy Indication Space <div style="height: 40px;"></div>																															
Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted above																															
<table style="width: 100%;"> <tr> <td style="width: 70%;"> Printed / Typed Name T. J. [Signature] </td> <td style="width: 20%;"> Signature </td> <td style="width: 10%;"> Date Month Day Year 10/12/11 </td> </tr> </table>					Printed / Typed Name T. J. [Signature]	Signature 	Date Month Day Year 10/12/11																								
Printed / Typed Name T. J. [Signature]	Signature 	Date Month Day Year 10/12/11																													



REPUBLIC
SERVICES, INC.

07 093131

NON-HAZARDOUS WASTE MANIFEST

GENERATOR INFORMATION

Generator Name: Lancaster Oil Company

Address: 1076 Old Manheim Pike

City: Lancaster County: Lancaster

State: Pa Zip: 17601

Site Location (if different): _____

CUSTOMER/BILLING INFORMATION

Billing Name: Lancaster Oil Company

Address: 1076 Old Manheim Pike

City: Lancaster County: Lancaster

State: Pa Zip: 17601

Republic Services Approval Number	Description of Waste	Volume/Weight	Expiration Date	Container Type
11-11542	Comingled Residual Waste	20 ton	08/2012	XX1CM

*Attach Additional Sheet if necessary.

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Troy P Tromellen
Generator/Authorized Agent Name

X

Signature

10/12/2011

Date Shipped

TRANSPORTER INFORMATION

Transporter Name: Lewis Environmental Services DOT Number: _____

Address: Railroad Ave Truck Number: 153

Rayonsford, Pa Phone Number: 610-493-6695

I certify no hazardous waste or other regulated substance was knowingly introduced to the waste while in my custody. The waste transported in this vehicle is the waste identified above, to the best of my knowledge.

[Signature]
Name of Authorized Agent

X

Signature

11/12/11
Date Delivered

DISPOSAL SITE INFORMATION

Site Name: Modern Landfill Phone Number: 717-246-2686

Address: 4400 Mt. Pisgah Road, York, PA 17406

I hereby acknowledge receipt of the above described materials.

Name (Print or Type)

X

Signature

Date Received

Modern Landfill

4400 Mt. Pleasant Rd.
York, PA 17406
(717) 246-2586
Fax (717) 244-5588



Ticket: 185683
Date: 10/12/11
Time In: 8:19 am
Time Out: 9:05 am

Scalehouse Copy

Vehicle: 12178 ROLL OFF DEP#: VIN# WH#1536

Container/Trailer/DEP#:

Customer: 000121 ENVIRONMENTAL RECOVERY CP
1076 OLD MANHEIM PIKE

00 Gross Weight 63,900.00 lb
Tare Weight 32,580.00 lb
Net Weight 31,320.00 lb

LANCASTER, PA 17601

Net Tons 15.66 TN

Reference:

Contract/Profile: 38191111542

Yards 20.00 YD

Manifest: 093131

Generator: LANCASTER OIL COMPANY

Origin:	Materials & Services	Quantity	Unit	Rate	Disposal
LANCASTER (36)	YU [08] SW-OILY MATERIAL/DEBRIS	15.66	TN		

Check #
Net Amount:
Tendered:
Change:

Driver _____

Weighmaster _____

JODI WILLIAMS 059039

Modern Landfill

4400 Mt. Pleasant Rd.
York, PA 17406
(717) 246-2586
Fax (717) 244-5588



Ticket: 185683
Date: 10/12/11
Time In: 8:19 am
Time Out: 9:05 am

Customer Copy

Vehicle: 12178 ROLL OFF DEP#: VIN# WH#1536

Container/Trailer/DEP#:

Customer: 000121 ENVIRONMENTAL RECOVERY CP
1076 OLD MANHEIM PIKE

00 Gross Weight 63,900.00 lb
Tare Weight 32,580.00 lb
Net Weight 31,320.00 lb

LANCASTER, PA 17601

Net Tons 15.66 TN

Reference:

Contract/Profile: 38191111542

Yards 20.00 YD

Manifest: 093131

Generator: LANCASTER OIL COMPANY

Origin:	Materials & Services	Quantity	Unit	Rate	Disposal
LANCASTER (36)	YU [08] SW-OILY MATERIAL/DEBRIS	15.66	TN		

Check #
Net Amount:
Tendered:
Change:

Driver _____

Weighmaster _____

JODI WILLIAMS 059039

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica King of Prussia
1008 W Ninth Ave
King of Prussia, PA 19406
Tel: (610)337-9992

TestAmerica Job ID: 450-2214-1
Client Project/Site: Buckman's Inc.

For:
Lewis Environmental Inc
PO BOX 639
Royersford, Pennsylvania 19468

Attn: Justin Lineman



Authorized for release by:
1/23/2012 9:54:08 AM

Ozzy Burgos
Project Manager I
ozzy.burgos@testamericainc.com

LINKS

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Expert**

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Sample Summary

Client: Lewis Environmental Inc
Project/Site: Buckman's Inc.

TestAmerica Job ID: 450-2214-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
450-2214-1	A	Solid	01/13/12 09:44	01/17/12 12:18
450-2214-2	B	Solid	01/13/12 09:54	01/17/12 12:18
450-2214-3	C	Solid	01/13/12 09:58	01/17/12 12:18
450-2214-4	D	Solid	01/13/12 10:05	01/17/12 12:18
450-2214-5	E	Solid	01/13/12 10:11	01/17/12 12:18
450-2214-6	F	Solid	01/13/12 10:19	01/17/12 12:18
450-2214-7	G	Solid	01/13/12 10:25	01/17/12 12:18
450-2214-8	H	Solid	01/13/12 10:36	01/17/12 12:18
450-2214-9	I	Solid	01/13/12 10:45	01/17/12 12:18
450-2214-10	J	Solid	01/13/12 10:56	01/17/12 12:18



Case Narrative

Client: Lewis Environmental Inc
Project/Site: Buckman's Inc.

TestAmerica Job ID: 450-2214-1

Job ID: 450-2214-1

Laboratory: TestAmerica King of Prussia

Narrative

Job Narrative
450-2214-1



Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

General Chemistry

No analytical or quality issues were noted.

Definitions/Glossary

Client: Lewis Environmental Inc
Project/Site: Buckman's Inc.

TestAmerica Job ID: 450-2214-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
D	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

5

Client Sample Results

Client: Lewis Environmental Inc
Project/Site: Buckman's Inc.

TestAmerica Job ID: 450-2214-1

Client Sample ID: A

Lab Sample ID: 450-2214-1

Date Collected: 01/13/12 09:44

Matrix: Solid

Date Received: 01/17/12 12:18

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.98		1.00		SU			01/18/12 14:41	1
Temperature	19.0		0.100		Degrees C			01/18/12 14:41	1



Client Sample ID: B

Lab Sample ID: 450-2214-2

Date Collected: 01/13/12 09:54

Matrix: Solid

Date Received: 01/17/12 12:18

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.64		1.00		SU			01/18/12 14:41	1
Temperature	19.2		0.100		Degrees C			01/18/12 14:41	1

Client Sample ID: C

Lab Sample ID: 450-2214-3

Date Collected: 01/13/12 09:58

Matrix: Solid

Date Received: 01/17/12 12:18

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.90		1.00		SU			01/18/12 14:41	1
Temperature	19.2		0.100		Degrees C			01/18/12 14:41	1

Client Sample ID: D

Lab Sample ID: 450-2214-4

Date Collected: 01/13/12 10:05

Matrix: Solid

Date Received: 01/17/12 12:18

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.07		1.00		SU			01/19/12 09:23	1
Temperature	17.6		0.100		Degrees C			01/19/12 09:23	1

Client Sample ID: E

Lab Sample ID: 450-2214-5

Date Collected: 01/13/12 10:11

Matrix: Solid

Date Received: 01/17/12 12:18

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.78		1.00		SU			01/19/12 10:27	1
Temperature	17.2		0.100		Degrees C			01/19/12 10:27	1

Client Sample ID: F

Lab Sample ID: 450-2214-6

Date Collected: 01/13/12 10:19

Matrix: Solid

Date Received: 01/17/12 12:18

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.11		1.00		SU			01/19/12 10:27	1

Client Sample Results

Client: Lewis Environmental Inc
Project/Site: Buckman's Inc.

TestAmerica Job ID: 450-2214-1

Client Sample ID: F

Lab Sample ID: 450-2214-6

Date Collected: 01/13/12 10:19

Matrix: Solid

Date Received: 01/17/12 12:18

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	17.0		0.100		Degrees C			01/19/12 10:27	1

Client Sample ID: G

Lab Sample ID: 450-2214-7

Date Collected: 01/13/12 10:25

Matrix: Solid

Date Received: 01/17/12 12:18

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.97		1.00		SU			01/19/12 10:27	1
Temperature	17.9		0.100		Degrees C			01/19/12 10:27	1

Client Sample ID: H

Lab Sample ID: 450-2214-8

Date Collected: 01/13/12 10:36

Matrix: Solid

Date Received: 01/17/12 12:18

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		1.00		SU			01/19/12 10:27	1
Temperature	18.3		0.100		Degrees C			01/19/12 10:27	1

Client Sample ID: I

Lab Sample ID: 450-2214-9

Date Collected: 01/13/12 10:45

Matrix: Solid

Date Received: 01/17/12 12:18

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.46		1.00		SU			01/19/12 10:27	1
Temperature	18.0		0.100		Degrees C			01/19/12 10:27	1

Client Sample ID: J

Lab Sample ID: 450-2214-10

Date Collected: 01/13/12 10:56

Matrix: Solid

Date Received: 01/17/12 12:18

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.41		1.00		SU			01/19/12 10:27	1
Temperature	18.0		0.100		Degrees C			01/19/12 10:27	1

Lab Chronicle

Client: Lewis Environmental Inc
Project/Site: Buckman's Inc.

TestAmerica Job ID: 450-2214-1

Client Sample ID: A

Lab Sample ID: 450-2214-1

Date Collected: 01/13/12 09:44

Matrix: Solid

Date Received: 01/17/12 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	6073	01/18/12 14:41	RB	TAL KOP

Client Sample ID: B

Lab Sample ID: 450-2214-2

Date Collected: 01/13/12 09:54

Matrix: Solid

Date Received: 01/17/12 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	6073	01/18/12 14:41	RB	TAL KOP

Client Sample ID: C

Lab Sample ID: 450-2214-3

Date Collected: 01/13/12 09:58

Matrix: Solid

Date Received: 01/17/12 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	6073	01/18/12 14:41	RB	TAL KOP

Client Sample ID: D

Lab Sample ID: 450-2214-4

Date Collected: 01/13/12 10:05

Matrix: Solid

Date Received: 01/17/12 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	6099	01/19/12 09:23	SPC	TAL KOP

Client Sample ID: E

Lab Sample ID: 450-2214-5

Date Collected: 01/13/12 10:11

Matrix: Solid

Date Received: 01/17/12 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	6103	01/19/12 10:27	SPC	TAL KOP

Client Sample ID: F

Lab Sample ID: 450-2214-6

Date Collected: 01/13/12 10:19

Matrix: Solid

Date Received: 01/17/12 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	6103	01/19/12 10:27	SPC	TAL KOP

Client Sample ID: G

Lab Sample ID: 450-2214-7

Date Collected: 01/13/12 10:25

Matrix: Solid

Date Received: 01/17/12 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	6103	01/19/12 10:27	SPC	TAL KOP

Lab Chronicle

Client: Lewis Environmental Inc
Project/Site: Buckman's Inc.

TestAmerica Job ID: 450-2214-1

Client Sample ID: H

Lab Sample ID: 450-2214-8

Date Collected: 01/13/12 10:36

Matrix: Solid

Date Received: 01/17/12 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	6103	01/19/12 10:27	SPC	TAL KOP

Client Sample ID: I

Lab Sample ID: 450-2214-9

Date Collected: 01/13/12 10:45

Matrix: Solid

Date Received: 01/17/12 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	6103	01/19/12 10:27	SPC	TAL KOP

Client Sample ID: J

Lab Sample ID: 450-2214-10

Date Collected: 01/13/12 10:56

Matrix: Solid

Date Received: 01/17/12 12:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	6103	01/19/12 10:27	SPC	TAL KOP

Laboratory References:

TAL KOP = TestAmerica King of Prussia, 1008 W Ninth Ave, King of Prussia, PA 19406, TEL (610)337-9992

Certification Summary

Client: Lewis Environmental Inc
Project/Site: Buckman's Inc.

TestAmerica Job ID: 450-2214-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica King of Prussia	New Jersey	NELAC	2	PA004
TestAmerica King of Prussia	Pennsylvania	NELAC	3	46-00505
TestAmerica King of Prussia	USDA	USDA		P330-10-00327

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



CHAIN OF CUSTODY REPORT

1008 W. Ninth Avenue
King of Prussia, PA 19151
(610) 337-9992
FAX (610) 337-9939

PAGE OF

Login Sample Receipt Checklist

Client: Lewis Environmental Inc

Job Number: 450-2214-1

Login Number: 2214

List Number: 1

List Source: TestAmerica King of Prussia

Creator: Wyper, J. Michael

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphase samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica King of Prussia
1008 W Ninth Ave
King of Prussia, PA 19406
Tel: (610)337-9992

TestAmerica Job ID: 450-3468-1
Client Project/Site: Buckmans - American Pool Service

For:
Liberty Environmental
50 North 5th Street
5th Floor
Reading, Pennsylvania 19601

Attn: Jim Cinelli

Jill Miller

Authorized for release by:
4/3/2012 4:34:35 PM

Jill Miller
Senior Project Manager
jill.miller@testamericainc.com

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The test results in this report meet all 2003 NELAP and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Liberty Environmental
Project/Site: Buckmans - American Pool Service

TestAmerica Job ID: 450-3468-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
450-3468-1	SS-A-5"	Solid	03/27/12 11:45	03/27/12 12:35
450-3468-2	SS-D-5"	Solid	03/27/12 11:55	03/27/12 12:35
450-3468-3	SS-E-4"	Solid	03/27/12 12:05	03/27/12 12:35

3

Case Narrative

Client: Liberty Environmental
Project/Site: Buckmans - American Pool Service

TestAmerica Job ID: 450-3468-1

Job ID: 450-3468-1

Laboratory: TestAmerica King of Prussia

Narrative

Job Narrative
450-3468-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

General Chemistry

No analytical or quality issues were noted.

Definitions/Glossary

Client: Liberty Environmental
Project/Site: Buckmans - American Pool Service

TestAmerica Job ID: 450-3468-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Liberty Environmental
Project/Site: Buckmans - American Pool Service

TestAmerica Job ID: 450-3468-1

Client Sample ID: SS-A-5"

Lab Sample ID: 450-3468-1

Date Collected: 03/27/12 11:45

Matrix: Solid

Date Received: 03/27/12 12:35

General Chemistry - SPLP East

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	5.0	mg/L			03/29/12 10:49	1

Client Sample ID: SS-D-5"

Lab Sample ID: 450-3468-2

Date Collected: 03/27/12 11:55

Matrix: Solid

Date Received: 03/27/12 12:35

General Chemistry - SPLP East

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	5.0	mg/L			03/29/12 10:49	1

Client Sample ID: SS-E-4"

Lab Sample ID: 450-3468-3

Date Collected: 03/27/12 12:05

Matrix: Solid

Date Received: 03/27/12 12:35

General Chemistry - SPLP East

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29		5.0	5.0	mg/L			03/29/12 10:49	1

Lab Chronicle

Client: Liberty Environmental
Project/Site: Buckmans - American Pool Service

TestAmerica Job ID: 450-3468-1

Client Sample ID: SS-A-5"

Lab Sample ID: 450-3468-1

Date Collected: 03/27/12 11:45

Matrix: Solid

Date Received: 03/27/12 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			9277	03/28/12 07:22	SPC	TAL KOP
SPLP East	Analysis	SM 4500 Cl- C		1	9371	03/29/12 10:49	RB	TAL KOP

Client Sample ID: SS-D-5"

Lab Sample ID: 450-3468-2

Date Collected: 03/27/12 11:55

Matrix: Solid

Date Received: 03/27/12 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			9277	03/28/12 07:22	SPC	TAL KOP
SPLP East	Analysis	SM 4500 Cl- C		1	9371	03/29/12 10:49	RB	TAL KOP

Client Sample ID: SS-E-4"

Lab Sample ID: 450-3468-3

Date Collected: 03/27/12 12:05

Matrix: Solid

Date Received: 03/27/12 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP East	Leach	1312			9277	03/28/12 07:22	SPC	TAL KOP
SPLP East	Analysis	SM 4500 Cl- C		1	9371	03/29/12 10:49	RB	TAL KOP

Laboratory References:

TAL KOP = TestAmerica King of Prussia, 1008 W Ninth Ave, King of Prussia, PA 19406, TEL (610)337-9992

Certification Summary

Client: Liberty Environmental
Project/Site: Buckmans - American Pool Service

TestAmerica Job ID: 450-3468-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica King of Prussia	New Jersey	NELAC	2	PA004
TestAmerica King of Prussia	Pennsylvania	NELAC	3	46-00505
TestAmerica King of Prussia	USDA	Federal		P330-10-00327

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CHAIN OF CUSTODY REPORT

1008 W. Ninth Avenue
King of Prussia, PA 19406
(610) 337-9992
FAX (610) 337-9939

Login Sample Receipt Checklist

Client: Liberty Environmental

Job Number: 450-3468-1

Login Number: 3468

List Source: TestAmerica King of Prussia

List Number: 1

Creator: Malandra, Ryan

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

PNDI Project Environmental Review Receipt

Project Search ID: 20120418350237

1. PROJECT INFORMATION

Project Name: American Pool Service

Date of review: 4/18/2012 8:15:50 AM

Project Category: Hazardous Waste Clean-up, Site Remediation, and Reclamation, Spill (e.g., oil, chemical)

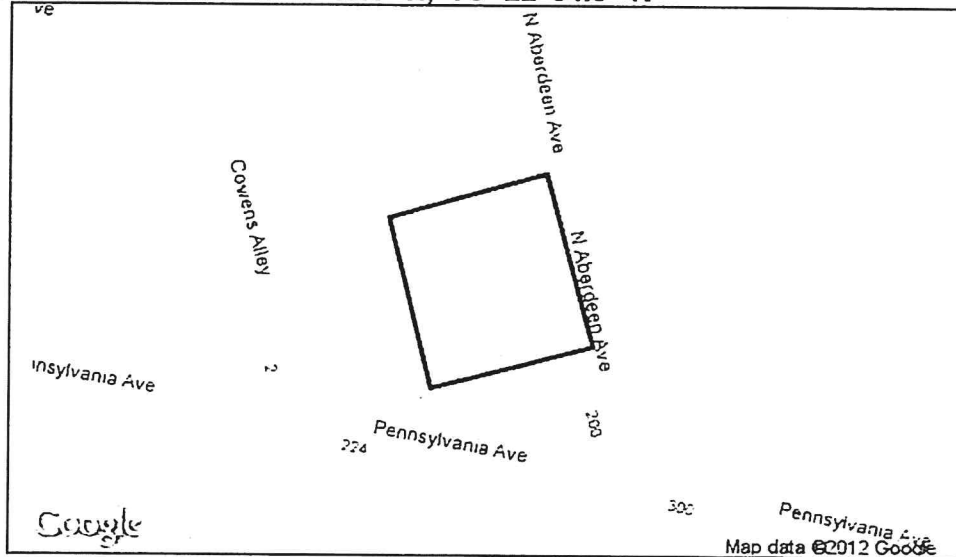
Project Area: 0.5 acres

County: Delaware Township/Municipality: Radnor

Quadrangle Name: VALLEY FORGE ~ ZIP Code: 19087

Decimal Degrees: 40.045868 N, -75.381834 W

Degrees Minutes Seconds: 40° 2' 45.1" N, -75° 22' 54.6" W



2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
PA Department of Transportation	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

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Note that regardless of PNDI search results, projects requiring a Chapter 105 DEP individual permit or GP 5, 6, 7, 8, 9 or 11 in certain counties (Adams, Berks, Bucks, Carbon, Chester, Cumberland, Delaware, Lancaster, Lebanon, Lehigh, Monroe, Montgomery, Northampton, Schuylkill and York) must comply with the bog turtle habitat screening requirements of the PASP@P.

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are valid for one year (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE: No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.* is required. ~~Because no take of federally listed species is anticipated, none is authorized. This response does not~~ reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special

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concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

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5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA.
17105-8552
Fax: (717) 772-0271

U.S. Fish and Wildlife Service

Endangered Species Section
315 South Allen Street, Suite 322, State College, PA.
16801-4851
NO Faxes Please.

PA Fish and Boat Commission

Division of Environmental Services
450 Robinson Lane, Bellefonte, PA. 16823-7437
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax: (717) 787-6957

7. PROJECT CONTACT INFORMATION

Name: _____
Company/Business Name: _____
Address: _____
City, State, Zip: _____
Phone: (____) _____ Fax: (____) _____
Email: _____

8. CERTIFICATION

I certify that all of the project information provided on this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

applicant/project proponent signature

date