

**ADDENDUM TO ENVIRONMENTAL
SITE CHARACTERIZATION REPORT**

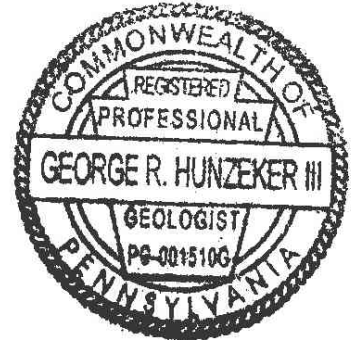
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"By affixing my seal to this document, I am certifying that the information is true and correct to the best of my knowledge. I further certify I am licensed to practice in the Commonwealth of Pennsylvania and that it is within my professional expertise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

George R. Hunzeker, P.G. (signed and sealed this day (September 23, 2015))

September 2015

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LIST OF ACRONYMS

- ° – degrees
- µg/kg – microgram per kilogram
- µg/l – microgram per liter
- ACFM – actual cubic feet per minute
- ACHD - Allegheny County Health Department
- Act 2 – Pennsylvania Land Recycling and Remediation Standards Act
- ASTM – American Standard Testing Manual
- AWS – air water separator
- BA – Buscheck and Alcantar
- bgs – below ground surface
- BTEX – benzene, toluene, and ethylbenzene
- C – temperature in Celsius degrees
- CAP – Corrective Action Process
- CERCLA-NFRA - Comprehensive Environmental Response, Compensation, and Liability Act - No Further Remedial Action Planned
- COC – constituent of concern
- COPIAC – chemical of potential indoor air concern
- CORRACTS – RCRA Corrective Action Sites
- CSM – Conceptual Site Model
- CWF – cold water fishes
- DMR – Discharge Monitoring Report
- DO – dissolved oxygen
- DTW – depth to water
- EDR – Environmental Database Report
- eFacts - Environment Facility Application Compliance Tracking System
- F – temperature in Fahrenheit degrees
- FINDS – Facility Index System
- foc – fraction organic carbon
- FSR – focused source remediation
- feet-msl – feet above mean sea level
- g/cm³ – grams per cubic centimeter
- GAC – granular activated carbon
- gpm – gallons per minute
- GPR – ground penetrating radar
- HASP – Health and Safety Plan
- Hp – horsepower
- HQ-CWF – high quality-cold water fishes
- HQ-WWF – high quality-warm water fishes
- Hz – hertz
- i – hydraulic gradient
- IAQ – Indoor Air Quality
- inHg – inches of mercury
- inH₂O – inches of water
- ISCO – in-situ chemical oxidation

- J & E – Johnson and Ettinger
- K – hydraulic conductivity
- kg/l – kilograms per liter
- koc – organic carbon partition coefficient
- Letterle – Letterle & Associates, Inc.
- LNAPL – light non-aqueous phase liquid
- LRP – liquid ring pump
- LUST – leaking underground storage tank
- MATR – Robinson Township Municipal Authority
- mg/kg – milligrams per kilogram
- mg/l – milligrams per liter
- mg/m³ – milligrams per cubic meter
- ml – milliliter
- MNA – monitored natural attenuation
- mS/cm – milliSiemens per centimeter
- MSC – Medium Specific Concentration
- MTBE – methyl tertiary-butyl ether
- MTMA – Moon Township Municipal Authority
- mV – milliVolts
- MW – monitor well (numerically designated)
- NFRAP - No Further Remedial Action Planned
- NORR – Notice Of Reportable Release
- NPDES – National Pollutant Discharge Elimination System
- NUAD – Non-Use Aquifer Determination
- NWI – National Wetlands Inventory
- OBMWA – Oakmont Borough Municipal Water Authority
- O&M – operation and maintenance
- ORC® - Oxygen Release Compounds
- ORP – oxidation - reduction potential
- OWA – Oakmont Water Authority
- PADCNr – Pennsylvania Department of Conservation and Natural Resources
- PADEP – Pennsylvania Department of Environmental Protection
- PAGWIS – Pennsylvania Groundwater Information System
- PAHs – polynuclear aromatic hydrocarbons
- PAWC – Pennsylvania American Water Company
- PCP – Post Remediation Care Plan
- PennDOT – Pennsylvania Department of Transportation
- PHMA - Penn Hills Municipal Authority
- PID – photoionization detector
- POC – point of compliance
- ppm – parts per million
- ppmv – parts per million by volume
- psi – pounds per square inch
- PVC – polyvinyl chloride
- QA/QC – quality assurance/quality control

- QD – Quick Domenico
- RACR – Remedial Action Completion Report
- RAP – Remedial Action Plan
- RAPR – Remedial Action Progress Report
- RCRA - Resource Conservation and Recovery Act
- RCRA – LQG - Resource Conservation and Recovery Act - Large Quantity Generator
- RCRA Non Gen /NLR – Epa list of non-rcra generators
- RMS – root mean square
- RTMA – Robinson Township Municipal Authority
- ROI – radius of influence
- RW – recovery well (numerically designated)
- SB – soil boring (numerically designated)
- SCFH – standard cubic feet per hour
- SCFM – standard cubic feet per minute
- SCR – Site Characterization Report
- SHS – Statewide Health Standard
- SOP – standard operating procedure
- SRSS – systematic random soil sampling
- SVE – soil vapor extraction
- TDS – total dissolved solids
- TGM – Technical Guidance Manual
- TMB – trimethylbenzene
- TOC – top of casing
- TPE – total phase extraction
- TPY – ton per year
- TSF – trout stocking fishes
- USCS – Unified Soil Classification System
- USEPA – United States Environmental Protection Agency
- USGS – United States Geological Survey
- UST – underground storage tank
- VCP – Voluntary Cleanup Program
- VEGE – vapor enhanced groundwater extraction
- VLF – very low frequency
- VOC – volatile organic compound
- VP – soil vapor monitor point (numerically designated)
- WACMA – Western Allegheny County Municipal Authority
- WWF – warm water fishes
- yd³ – cubic yard

1.0 INTRODUCTION

In May 2013, impacted soil and groundwater was discovered during UST system closure. USTs 001 and 002 were constructed of fiberglass and were 8,000-gallon and 4,000-gallon in size, respectively. UST 001 was installed in January 1980, and initially contained unleaded gasoline. The product stored in UST 001 was changed to diesel fuel in October 2011. UST 002 was installed in January 1981, and contained diesel fuel. USTs 001 and 002 were located in separate excavations. During UST removal, a hole was observed in the bottom of UST 001. A 2-inch diameter hole was also observed directly beneath the fill port on UST 002. The PADEP was notified of a reportable release on May 7, 2013. More than 250 gallons of diesel fuel was released into the environment. Prior to backfilling each excavation, a total of 4,806 gallons of petroleum-impacted groundwater was removed from site. Currently, there are no known petroleum USTs at the site.

Letterle was retained by Lamagna Cheese Company (Lamagna) in May 2013 to conduct environmental site characterization activities at the Lamagna facility (**Figure 1**). On July 29, 2014, a SCR was completed and submitted by Letterle to the PADEP. The PADEP approved the SCR on October 10, 2014.

The SCR specified attaining the SHS for a used aquifer at a residential property with a TDS concentration of less than or equal to 2,500 mg/l as detailed in Act 2, The Land Recycling and Environmental Standards Act for BTE, MTBE, naphthalene, cumene, 1,2,4-TMB and 1,3,5-TMB MSC. Additional site characterization activities were requested by the PAUSTIF, for the purpose of the further defining the limits of soil and groundwater impacts at the Lamagna site, in preparation for a Request for Bid Proposal. This Addendum to the SCR summarizes the findings of the additional site characterization activities.

2.0 SITE CHARACTERIZATION SUMMARY

The findings of the July 2014 SCR included the following:

- A search of federal and state environmental databases, was performed to evaluate if the Subject Property and/or adjacent properties, indicated several properties of environmental concern, the most significant of which was a LUST listing for Daily's Juice Products. Research of PADEP files indicated that the site cleanup is completed.
- A sensitive receptor survey performed within 2,500 feet of the facility indicated that the surrounding area generally consists of residential and commercial properties.
- Several wells were identified within the PaGWIS database as located within 2,500 feet of the site. However, the wells either no longer exist or are hydraulically separate from the site.
- Twenty four (24) soil borings were advanced to characterize the petroleum release. The soil borings were converted into 21 monitor wells and three soil vapor monitor points to

investigate a potential petroleum release at the site. All wells were installed within the overburden aquifer. The three vapor monitor points were installed adjacent to the Lamagna facility.

- The general geology beneath the site consisted of asphalt, concrete, and gravel at the surface underlain by clayey sand and clayey gravel with silty shale bedrock encountered in the southern portion of the site.
- Aquifer slug testing was performed to determine hydraulic conductivity values in the unconsolidated aquifer. The slug test results indicated that the average hydraulic conductivity in the unconsolidated aquifer was 0.98 feet/day.
- Groundwater was gauged within the unconsolidated material during the most recent sampling event (April 3, 2014) at depths ranging from 15.10 feet below TOC in MW-14 to 21.67 feet below TOC in MW-19. Based on the groundwater elevation data for monitor wells MW-6 (727.94 feet-msl) and MW-16 (725.55 feet-msl) over a horizontal distance of 165 feet, the horizontal hydraulic gradient in the shallow overburden aquifer is approximately 0.015 feet/foot. The apparent groundwater flow direction in the shallow overburden aquifer is to the north north-west.
- The subsurface investigation indicated the presence of petroleum hydrocarbons in the soil. The analytical results from the soil samples collected at or above the static water table during the drilling programs from October 2013 through March 2014 exceeded the PADEP SHS for diesel COCs at and in the vicinity of the UST excavations. Based on the analytical results from soil samples from site characterization activities, the dimensions of the petroleum-impacted area at the site is approximately 2,444 yd³ (80 feet by 75 feet by 11 feet thick (8 to 19 feet bgs)) (3,666 tons [based on 1.5 tons per yd³]).
- During the most recent sampling event, groundwater analytical results exceeded the PADEP SHS for benzene in 9 monitor wells (MW-1 through MW-8, and MW-11), toluene in four monitor wells (MW-3, MW-4, MW-6, and MW-8), ethylbenzene in three monitor wells (MW-4, MW-6, and MW-8), MTBE in 12 monitor wells (MW-1 through MW-8, MW-11, MW-12, MW-16, and MW-17), naphthalene in 5 monitor wells (MW-2 through MW-4, MW-6, and MW-8), 1,2,4-TMB in 7 monitor wells (MW-2 through MW-4, MW-6 through MW-8, and MW-11), and 1,3,5-TMB in 7 monitor wells (MW-2 through MW-4, MW-6 through MW-8, and MW-11).
- Since the discovery of LNAPL during the site characterization, approximately 16.32 gallons of LNAPL has been recovered from monitor wells MW-2, MW-3, MW-4, MW-6, MW-8, and MW-11. LNAPL has not been observed in any other site monitor well.
- Soil vapor samples collected on January 31, 2014 and July 3, 2014 (VP-1 through VP-3) indicated that the concentrations of all short list diesel fuel parameters were below the PADEP Indoor Air Criteria and Odor Thresholds for residential and nonresidential properties.

- According to the results of the QD model, benzene and MTBE, in exceedance of the SHS MSC will not be transported to Plum Creek or any known potential receptors within 30 years. Based on the modeled results for benzene and the worst-case modeled results for MTBE (with limited plume delineation), concentrations of Benzene and MTBE in exceedance of the SHS MSC are not predicted to migrate off-site longitudinally or in a transverse portion of the plume.
- Based on the site characterization data, potential exposure pathways to human and ecological receptors currently exist for direct contact with groundwater.

Based on the findings of the site characterization, additional site characterization activities were necessary to more completely define petroleum-impacted soil and groundwater in the vicinity of the release. The following sections provide information about the site investigation and the results obtained from the environmental investigation.

3.0 ADDITIONAL SITE CHARACTERIZATION

3.1 Advancement of Soil Borings

A total of eight borings were advanced in two separate phases during the additional site characterization. The following is a summary of the dates and associated borings that were complete during each phase:

- January 31 – March 20, 2015 (SB-25 through SB-30)
- July 6, 2015 (SB-30A and SB-31).

Approximately one week prior to each drilling event, the Pennsylvania One Call, Inc. was notified to alert area utility companies that subsurface work was to be conducted. Prior to drilling, each pre-determined boring location was hand-cleared or soft-dug with hand tools. A one-foot diameter by five-foot deep hole was made at each boring location.

During drilling at soil boring locations, soil samples were collected continuously with direct push and two-foot long split-barrel samplers. All samples were collected in accordance with ASTM D1586-99 (standard test method for penetration test). The soil samples were logged in accordance with the USCS and were field screened for VOCs utilizing a PID using headspace analysis methods.

3.1.1 Phase 1 – January 31 - March 20, 2015 (SB-25 through SB-30)

Six soil borings (SB-25 through SB-30) were advanced by Terra Testing, Inc. (Terra) of Washington, Pennsylvania, utilizing both track and truck-mounted drill rigs equipped with 4.25-inch inside diameter hollow-stem augers that created an 8.25-inch diameter borehole, with the exception of SB-26 which was advanced with a 2-inch diameter direct push split-barrel sampler. The depths of soil borings SB-25 through SB-30 were all 28 feet-bgs, with the exception of SB-

26, which was 27 feet-bgs. Soil samples were collected continuously at each location. The locations of soil borings SB-25 through SB-30 are illustrated on **Figure 2**.

PID results ranged from 0.0 ppm to 1,032 ppm in SB-26 (13 to 15 feet bgs). Elevated PID readings (>100 ppm) and/or visual staining were observed from 11 to 13 feet bgs (SB-28), 13 to 15 feet bgs (SB-26, SB-27, and SB-30) and 15 to 17 feet bgs (SB-26, SB-27 and SB-29). While fill materials were encountered, the subsurface soils were primarily clayey sand and gravel with silt and sand. Bedrock (silty shale) was encountered at depths ranging from 23.5 feet bgs to 25.5 feet bgs at four soil boring locations (SB-27 through SB-30). Detailed drilling logs are provided in **Appendix A**.

Discarded portions of the soil cores were placed in 12 55-gallon drums that were properly labeled and secured with a lid for final disposition. The 55-gallon drums were loaded by McCutcheon Enterprises, Inc. (McCutcheon) and transported to Veolia ES Technical Solutions in West Carrollton, Ohio on May 21, 2015. Waste disposal receipts are included in **Appendix B**.

3.1.2 Phase 2 – July 7, 2015 (SB-30A and SB-31)

Based on the data obtained from initial drilling activities and subsequent groundwater sampling, two additional soil borings (SB-30A and SB-31) were advanced by Terra utilizing a track-mounted drill rig equipped with a 2-inch diameter direct push split-barrel sampler. Soil borings SB-30A and SB-31 were advanced to depths of 17 feet bgs and 19 feet bgs, respectively. Soil samples were collected continuously at both locations. The locations of soil borings SB-30A and SB-31 are illustrated on **Figure 2**.

PID results ranged from 0.0 ppm to 0.6 ppm in SB-30A (15 to 17 feet bgs). Elevated PID readings and/or visual staining were not observed in either soil boring. While fill materials were encountered, the subsurface soils were primarily clayey sand. Bedrock was not encountered in either soil boring. Detailed drilling logs are provided in **Appendix A**.

Discarded portions of the soil cores were placed in 2 55-gallon drums that were properly labeled and secured with a lid for final disposition. Waste disposal is pending.

3.2 **Soil Sampling and Analysis**

Criteria used to select soil samples for laboratory analysis included the following:

- PID results;
- Depth to saturation;
- Visual evidence of staining; and,
- Petroleum odors.

The soil samples were placed in laboratory-supplied sample containers, labeled, and stored on ice in a cooler at a temperature of approximately 4°C for preservation. Chain of custody documentation followed standard protocol.

The samples were submitted to Pace Analytical Services, Inc of Export, Pennsylvania for analysis of the short list of diesel fuel parameters using USEPA SW-846 Methods 8260B, in accordance with storage tank regulations. The regulated parameters included the following:

- Benzene;
- Toluene;
- Ethylbenzene;
- MTBE;
- Cumene;
- Naphthalene;
- 1,2,4 – TMB; and,
- 1,3,5 – TMB.

A discussion of the soil analytical results is provided in Section 4.1.

3.3 Installation of Monitor Wells

Monitor wells MW-22 through MW-26 were completed during the additional site characterization activities from January 2015 to March 2015 to delineate the horizontal and vertical extent of the diesel fuel release. Monitor wells MW-22 through MW-26 were completed and screened in the first encountered unconsolidated aquifer.

The monitor well locations are shown on **Figure 2**. Construction details for monitor wells MW-22 through MW-26 are summarized on **Table 1** and illustrated on drilling logs in **Appendix A**.

Monitor wells MW-22 through MW-26 were constructed with flush-threaded 2-inch diameter, schedule 40 PVC casing and 0.010-inch factory-slotted PVC well screens. The annular space spanning the length of each well screen interval was filled with clean filter sand and extended to approximately two feet above the top of the well screen. A bentonite pellet seal was placed on top of the sand pack and within the remaining annular space in each well. The monitor wells were completed with locking expansion caps and protected with flush-mount steel manhole covers set in concrete pads.

3.4 Monitor Well Development

The monitor wells were developed approximately one week following the installation for the last monitor well to remove fine-grained material from each well and to ensure proper hydraulic communication with the aquifer. The monitor wells were developed with a surge block well development tool. The development water was collected and stored in three 55-gallon drums that were properly labeled and secured with a lid for final disposition. The 55-gallon drums were loaded by McCutcheon Enterprises, Inc. (McCutcheon) and transported to Veolia ES Technical Solutions in West Carrollton, Ohio on May 21, 2015. Waste disposal receipts are included in **Appendix B**.

3.5 Professional Survey

Letterle retained Hampton Technical Associates in April 2015 to update the original professional survey from October 2013. Hampton's survey included monitor well elevations, property boundaries, utility locations, building dimensions, and selected features of adjacent properties. Monitor well TOC elevations are included on **Table 1** and within the well construction logs in **Appendix A**.

3.6 Groundwater Sampling and Analysis

Groundwater samples were collected from various monitor wells for laboratory analysis during two sampling events. The following is a summary of the groundwater sampling dates:

- April 8, 2015 MW-22 through MW-26
- April 27, 2015 MW-1 through MW-26

Prior to sample collection, the depth to groundwater in each well was measured using an electronic oil/water interface probe or water level meter accurate to the nearest 0.01 foot. After gauging the depth to water, groundwater was extracted using a peristaltic pump at a low flow rate of <0.5 liters per minute. The groundwater was passed through a flow-through cell that measured DO, pH, TDS, temperature, specific conductivity, and ORP. Measurements were recorded until they stabilized or for a maximum of 45 minutes per well. The purge water was collected and stored on-site in 55-gallon drums. Purge water was transported off-site for disposal by McCutcheon Enterprises at Veolia ES Technical Solutions located in West Carrollton, Ohio.

The samples were submitted for laboratory analysis of diesel fuel parameters using USEPA SW-846 Method 8260B, in accordance with the storage tank regulations. The regulated diesel fuel parameters included the following:

- Benzene;
- Toluene;
- Ethylbenzene;
- MTBE;
- Cumene;
- Naphthalene;
- 1,2,4 – TMB; and,
- 1,3,5 – TMB.

Groundwater samples were also collected from all monitor wells for TDS analysis using USEPA SW2540C. The groundwater analytical results are discussed in Section 4.2.1.

4.0 INVESTIGATION RESULTS

4.1 Soil Analytical Results

Based on field observations and PID results, one soil sample from each completed soil boring was collected and submitted for laboratory analysis. The eight samples were collected from depths ranging from 11 - 13 ft bgs (SB-28) to 15 - 17 ft bgs (SB-27, SB-29 and SB-31), as detailed on **Table 2**.

The analytical results from the soil samples exceeded the PADEP SHS for diesel fuel COCs in the vicinity of the UST excavation. The laboratory results for the soil samples are summarized on **Table 2**. A soil analyte distribution map is included as **Figure 3**. **Figures 4** through **7** are isoconcentration maps of COCs in soils that exceeded the PADEP SHS (benzene, MTBE, 1,2,4-TMB, and 1,3,5-TMB). Soil samples collected at depths greater than 15 ft bgs (below the historical average water table depth at the site) were not included within the isoconcentration maps. Copies of the analytical reports are included in **Appendix C**.

Based on the soil analytical results from site characterization activities, the dimensions of the petroleum impacted area at the site is approximately 4,253 yd³ (110 feet by 95 feet by 11 feet thick [8 to 19 feet bgs]) (6,380 tons [based on 1.5 tons per yd³]). Approximately 260 tons of petroleum impacted soil was excavated during UST closure activities and disposed of off-site, leaving an estimated 6,120 tons in-situ. The conservative thickness of 11 feet is based on the analytical results and the PID readings at soil boring SB-6. The impacted soil zone is generally limited to the area beneath and surrounding the former UST fields located southeast of the Lamagna Cheese Facility building. (**Figures 4** through **7**). The soil has been delineated at the site to the extent practical, with an area beneath the Lamagna facility still undefined.

4.2 Groundwater Evaluation

4.2.1 Site Hydrogeology

Groundwater was generally encountered between 15-22 feet bgs, within the unconsolidated material. Depths to groundwater measurements were collected at Lamagna during the most recent comprehensive sampling event on April 27, 2015. Groundwater gauging data is summarized on **Table 3**. The water level measurements for April 27, 2015 ranged from 14.84 feet below TOC in MW-14 to 21.59 feet below TOC in MW-19. Based on the groundwater elevation data for monitor wells MW-14 (731.20 feet-msl) and MW-26 (725.47 feet-msl) over a horizontal distance of 72 feet, the horizontal hydraulic gradient in the shallow overburden aquifer in the vicinity of the release is approximately 0.08 feet/feet. A groundwater contour map was constructed from the most recent gauging event (April 27, 2015) and is illustrated on **Figure 8**. The apparent overall groundwater flow direction in the shallow overburden aquifer is to the north-northwest.

4.2.1 Groundwater Analytical Results

The groundwater analytical results of the most recent comprehensive sampling event on April 27, 2015 exceeded the PADEP SHS for residential used aquifers with total dissolved solids less than 2,500 mg/l for the following:

- Benzene (MW-1, MW-5, MW-7, MW-25 and MW-26)
- Toluene (MW-26)
- Ethylbenzene (MW-26)
- MTBE (MW-1, MW-5, MW-7, MW-17, MW-25, and MW-26)
- Naphthalene (MW-26)
- 1,2,4-TMB (MW-1, MW-5, MW-7 and MW-26)
- 1,3,5-TMB (MW-7 and MW-26)

The ranges for the various parameters detected in groundwater above the PADEP SHS are as follows:

- Benzene ranged from less than laboratory detection limits to 6,710 µg/l (MW-26)
- Toluene ranged from less than laboratory detection limits to 7,460 µg/l (MW-26)
- Ethylbenzene ranged from less than laboratory detection limits to 1,440 µg/l (MW-26)
- MTBE ranged from less than laboratory detection limits to 3,310 µg/l (MW-26)
- Naphthalene ranged from less than laboratory detection limits to 221 µg/l (MW-26)
- 1,2,4-TMB ranged from less than laboratory detection limits to 1,040 µg/l (MW-26)
- 1,3,5-TMB ranged from less than laboratory detection limits to 7,460 µg/l (MW-26)

Monitor wells MW-2, MW-3, MW-4, MW-6, MW-8, MW-11 and MW-23, were not sampled due to the presence of LNAPL at a thickness >0.02 feet, as further discussed in Section 5.1. In addition, MW-13 was dry during the gauging event and therefore not sampled.

Two QA/QC samples were analyzed during the April 27, 2015 groundwater sampling event. A duplicate sample was collected from MW-7. In addition, a trip blank sample was transported with the sample bottles from the laboratory to the site and returned to the laboratory for analysis.

A comparison of the duplicate analytical results to the original sample (MW-7) results indicated that all diesel fuel parameters were within the relative standard difference (RSD) of +/-20%. For each parameter the field duplicate results agreed with the corresponding parameter for monitor well MW-7.

The analytical results for the groundwater samples collected from the monitor wells are summarized in **Table 4** and the results for the groundwater samples collected from the monitor wells during the April 27, 2015 groundwater sampling event are illustrated on **Figure 9**. **Figures 10 through 16** are isoconcentration maps of COCs in groundwater that exceeded the PADEP SHS during the most recent sampling event (April 27, 2015). The laboratory reports for all monitor well sampling events are enclosed in **Appendix C**. As illustrated in **Figures 10 through 16**, diesel fuel COCs in groundwater have not migrated beyond the property boundary and are

delineated to the north and west of the on-site building. Therefore, the groundwater has been fully delineated at the site to extent practical.

Groundwater samples were collected from monitor wells MW-22 and MW-24 through MW-26 for TDS during the additional site characterization (**Table 5**) and were laboratory analyzed. The TDS concentration ranged from 653 mg/l (MW-25) to 940 mg/l (MW-26). The site-wide average TDS value was calculated as 995 mg/l, based on results from each well (including monitor wells sampled during initial site characterization). Monitor well MW-23 was not sampled due to the presence of LNAPL. Therefore, the analytical results were compared to the SHS MSC for residential aquifers with TDS concentrations less than 2,500 mg/l.

5.0 INTERIM REMEDIAL ACTIONS

5.1 LNAPL Recovery

5.1.1 LNAPL Gauging and Recovery

Nine LNAPL gauging and recovery events took place at the site between July 2014 and August 2015 (not including the high vacuum extraction events discussed in Section 5.1.1). Monitor wells MW-2, MW-3, MW-6, MW-8, MW-11, and MW-23 were gauged for LNAPL during each event. Monitor well MW-4 was inadvertently not gauged during the two most recent events (July and August 2015). The thickness of LNAPL measured in these monitor wells ranged from 0.01 to 0.29 feet during the site characterization. LNAPL was recovered between gauging visits via hand bailing and/or with absorbent socks. Monitoring wells MW-2, MW-3, MW-6, MW-8 and MW-23 currently have absorbent socks placed at the oil water interface. To date, a total of 22.96 gallons of LNAPL has been recovered at the site via active and passive recovery methods. LNAPL recovery events at the site are summarized on **Table 6**.

5.1.2 High Vacuum Extraction Events

Three high vacuum extraction events to recover LNAPL were completed on January 13, 2015, February 10, 2015 and March 10, 2015. Prior to vacuum extraction, monitor wells MW-2, MW-3, MW-4, MW-6, MW-8 and MW-11 were gauged. If LNAPL was present the well was included in the extraction event. A dedicated drop tube was used for each well and was lowered from the top of the water table to approximately three feet below the static groundwater level to remove LNAPL (and/or minor amounts of water). A vacuum was applied at each well for approximately two hours, with the exception of MW-6 during the March 10, 2015 event, where a vacuum was applied for approximately six hours. The amount of LNAPL and water extracted from each well ranged from 50 gallons (MW-2 on January 13, 2015) to 394 gallons (MW-6 on March 10, 2015). A cumulative total of 841 gallons of LNAPL and water was extracted during the January and March 2015 events. Extracted LNAPL and water totals were not collected from the February event due to the vacuum truck not being equipped with a totalizer. LNAPL gauging and recovery data, inclusive of the high vacuum extraction events, is included in **Table 6**.

5.1.3 Static LNAPL Gauging and Recovery Event

Absorbent socks were not reinstalled after the March 2015 high vacuum extraction event and groundwater and LNAPL were allowed to return to static levels. To assess current site conditions a LNAPL gauging and recovery event was conducted on April 27, 2015, approximately 45 days after the final high vacuum extraction event. LNAPL was present in eight monitor wells (MW-2, MW-3, MW-4, MW-6, MW-8, MW-11, MW-23, and MW-26) at a thickness ranging from 0.20 feet (MW-4) to 0.02 feet (MW-26). LNAPL thickness is illustrated on **Figure 17** and summarized in **Table 6**.

The LNAPL plume is in the vicinity of the former UST system and extends east to MW-2, south to MW-3, west to MW-8 and north to MW-26. The horizontal extent of LNAPL has been defined in all directions except to the north in the vicinity of MW-26.

6.0 SUMMARY AND CONCLUSIONS

In May 2013, impacted soil and groundwater was discovered during a UST system closure at the Lamagna site. Site characterization activities were completed at the site from May 2013 through July 2014. A SCR summarizing the findings of the site characterization was submitted to the PADEP on July 29, 2014. The SCR was approved by the PADEP on October 10, 2014. Additional site characterization activities were requested by the PAUSTIF, for the purpose of further defining the limits of soil and groundwater impacts at the site, in preparation for a Request for Bid Proposal.

Findings of the additional site characterization include the following:

- Eight (8) soil borings were advanced to further characterize the petroleum release. The soil borings were converted into five monitor wells. All wells were installed within the overburden aquifer.
- Groundwater was gauged within the unconsolidated material during the most recent sampling event (April 27, 2015) at depths ranging from 14.84 feet below TOC in MW-14 to 21.59 feet below TOC in MW-19. Based on the groundwater elevation data for monitor wells MW-14 (731.20 feet-msl) and MW-26 (725.47 feet-msl) over a horizontal distance of 72 feet, the horizontal hydraulic gradient in the shallow overburden aquifer in the vicinity of the release is approximately 0.08 feet/feet. The apparent groundwater flow direction in the shallow overburden aquifer is to the north north-west.
- The subsurface investigation indicated the presence of petroleum hydrocarbons in the soil. The analytical results from the soil samples collected at or above the static water table during the drilling programs from October 2013 through July 2015 indicated the results exceed the PADEP SHS for diesel COCs at and in the vicinity of the UST excavations. Based on the analytical results from soil samples from site characterization activities, the dimensions of the petroleum-impacted area at the site is approximately 4,253 yd³ (110 feet by 95 feet by 11 feet thick [8 to 19 feet bgs]) (6,380 tons [based on 1.5 tons per yd³]).

- During the most recent sampling event, groundwater analytical results indicate exceedances of the PADEP SHS for benzene in five monitor wells (MW-1, MW-5, MW-7, MW-25 and MW-26), toluene in one monitor well (MW-26), ethylbenzene in one monitor well (MW-26), MTBE in six monitor wells (MW-1, MW-5, MW-7, MW-17, MW-25, and MW-26), naphthalene in one monitor well (MW-26), 1,2,4-TMB in four monitor wells (MW-1, MW-5, MW-7, and MW-26), and 1,3,5-TMB in two monitor wells (MW-7 and MW-26). LNAPL was present at a thickness of >0.02 feet in seven monitor wells (MW-2, MW-3, MW-4, MW-6, MW-8, MW-11 and MW-23).
- Since the discovery of LNAPL during the site characterization, an approximate total of 22.96 gallons of LNAPL has been recovered from monitor wells MW-2, MW-3, MW-4, MW-6, MW-8, MW-11, MW-23, and MW-26 by hand bailing. Approximately 841 gallons of LNAPL and water was removed from monitor wells MW-3, MW-4, MW-6, and MW-8 during three high-vacuum extraction events. LNAPL has not been observed in any other site monitor well.

TABLES

TABLE 1
MONITOR WELL AND VAPOR MONITOR POINT CONSTRUCTION DETAILS
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Soil Boring ID	Well Designation	Date Installed	Well Depth at Installation (feet bgs)	Well Depth (feet bgs)	Screen Interval (feet bgs)	Well Diameter (inches)	Borehole Diameter (inches)	Top of PVC Casing Elevation (feet)	Ground Surface Elevation (feet)	Well Depth Elevation at Installation (feet)
SB-1	MW-1	10/02/13	26.5	25.98	11.5-26.5	2	8.0	746.38	746.75	719.88
SB-2	MW-2	10/01/13	21.5	19.10	11.5-21.5	2	8.0	746.30	746.73	724.80
SB-3	MW-3	10/03/13	26.5	25.78	11.5-26.5	2	8.0	745.92	746.30	719.42
SB-4	MW-4	09/30/13	26.5	23.50	11.5-26.5	2	8.0	745.61	746.03	719.11
SB-5	MW-5	10/03/13	26.5	25.55	11.5-26.5	2	8.0	745.54	745.84	719.04
SB-6	MW-6	10/04/13	26.5	25.83	11.5-26.5	2	8.0	745.53	745.91	719.03
SB-7	MW-7	10/08/13	26.5	25.58	11.5-26.5	2	8.0	745.97	746.54	719.47
SB-8	MW-8	10/04/13	26.5	23.70	11.5-26.5	2	8.0	745.98	746.35	719.48
SB-9	MW-9	12/03/13	28.0	n/a	13-28	2	8.0	746.02	746.34	718.02
SB-10	MW-10	12/04/13	28.0	n/a	13-28	2	8.0	746.31	746.77	718.31
SB-11	MW-11	12/04/13	28.0	n/a	13-28	4	10.0	745.73	746.18	717.73
SB-12	MW-12	12/05/13	28.0	n/a	13-28	2	8.0	746.92	747.32	718.92
SB-13	MW-13	12/06/13	28.0	n/a	13-28	2	8.0	745.21	746.03	717.21
SB-14	VP-1	01/23/14	4.0	n/a	3.6-4	0.75	3.0	n/a	n/a	n/a
SB-15	VP-2	01/23/14	3.5	n/a	3.1-3.5	0.75	3.0	n/a	n/a	n/a
SB-16	VP-3	01/23/14	4.0	n/a	3.6-4	0.75	3.0	n/a	n/a	n/a
SB-17	MW-14	02/10/14	27.0	26.20	12-27	2	8.0	746.04	746.57	719.04
SB-18	MW-15	02/11/14	30.0	29.70	15-30	2	8.0	746.39	746.70	716.39
SB-19	MW-16	02/11/14	28.0	n/a	13-28	2	8.0	745.05	745.97	717.05
SB-20	MW-17	02/11/14	30.0	29.60	15-30	2	8.0	745.90	746.24	715.90
SB-21	MW-18	03/25/14	30.0	29.31	15-30	2	8.0	746.72	747.22	719.21
SB-22	MW-19	03/24/14	29.0	28.10	14-29	2	8.0	747.18	747.54	718.18
SB-23	MW-20	03/26/14	30.0	30.09	15-30	2	8.0	745.60	746.05	715.60
SB-24	MW-21	03/24/14	28.0	27.44	13-28	2	8.0	745.54	746.14	717.54
SB-25	MW-22	01/30/15	28.0	n/a	12-28	2	6.0	746.35	746.78	718.35
SB-27	MW-23	01/30/15	28.0	n/a	12-28	2	6.0	745.73	745.98	717.73
SB-28	MW-24	01/31/15	26.0	n/a	12-26	2	6.0	743.49	744.13	717.49
SB-29	MW-25	02/02/15	28.0	n/a	12-28	2	6.0	747.23	747.42	719.23
SB-30	MW-26	03/20/15	28.0	n/a	13-28	2	6.0	744.93	745.65	716.93

Notes:
feet bgs - feet below ground surface

TABLE 2
SOIL ANALYTICAL DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Soil I.D.	Date	Depth (ft bgs)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	MTBE (ug/kg)	Cumene (µg/kg)	Naphthalene (µg/kg)	1,2,4- TMB (µg/kg)	1,3,5- TMB (µg/kg)
SB-1/SS-6	10/02/13	10'-12'	<5.1	19.4	<5.1	<5.1	<5.1	9.3	<5.1	<5.1
SB-1/SS-7	10/02/13	12'-14'	<4.9	16.3	8,300	<4.9	255	148	43,000	20,900
SB-2/SS-7	10/01/13	12'-14'	12.9	7.3	40.7	23.6	13.2	12.5	77.9	33.7
SB-2/SS-8	10/01/13	14'-15'	<2,590	<2,590	4,080	13.8	<2,590	<2,590	10,500	3,390
SB-3/SS-6	10/03/13	10'-12'	640	84	750	214	190	192	1,900	575
SB-3/SS-8	10/03/13	14'-15'	9,710	21,400	26,000	563	5,040	6,760	29,800	22,000
SB-4/SS-8	10/01/13	15'-17'	90.2	760	210	<4.7	28.1	32.8	235	82.3
SB-4/SS-9	10/01/13	17'-20'	4,000	18,900	5,470	1,290	849	1,310	10,600	3,290
SB-5/SS-8	10/03/13	14'-15'	<5	59.9	19.6	<5	14.2	104	43.8	22.5
SB-5/SS-10	10/03/13	17'-19'	<3.8	15.9	4,130	8.7	1,610	281	14,400	7,790
SB-6/SS-5	10/04/13	9'-10'	1,210	1,220	110	14,100	7.1	14.9	18.0	8.0
SB-6/SS-9	10/04/13	15'-17'	9,760	36,600	8,050	30,600	30.8	55.3	303	92.8
SB-7/SS-6	10/08/13	10'-12'	<4.6	19	<4.6	5.1	<4.6	<4.6	<4.6	<4.6
SB-7/SS-8	10/08/13	14'-15'	5,120	20,100	13,700	<269	2,080	3,250	23,700	8,640
SB-8/SS-6	10/04/13	10'-12'	1,490	25.7	203	3,400	15.1	16.8	6.5	<4.8
SB-8/SS-9	10/04/13	15'-17'	16,300	48,800	8,860	5,990	1,030	3,420	14,500	4,240
SB-9/SS-9	12/03/13	17'-19'	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
SB-10/SS-7	12/04/13	13'-15'	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
SB-12/SS-8	12/05/13	15'-17'	56	<4.6	<4.6	30.5	<4.6	<4.6	<4.6	<4.6
SB-13/SS-9	12/06/13	17'-19'	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
SB-14/SS-2	01/23/14	2'-4'	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
SB-15/SS-2	01/23/14	2'-3.5'	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SB-16/SS-2	01/23/14	2'-4'	<3.9	<3.9	<3.9	15.1	<3.9	<3.9	<3.9	<3.9

TABLE 2
SOIL ANALYTICAL DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Soil I.D.	Date	Depth (ft bgs)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	MTBE (ug/kg)	Cumene (µg/kg)	Naphthalene (µg/kg)	1,2,4- TMB (µg/kg)	1,3,5- TMB (µg/kg)
SB-17/SS-7	02/10/14	11'-13'	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SB-17/SS-8	02/10/14	13'-15'	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
SB-18/SS-10	02/11/14	17'-19'	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
SB-18/SS-9	02/11/14	15'-17'	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
SB-19/SS-10	02/11/14	17'-19'	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
SB-20/SS-8	02/12/14	13'-15'	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SB-21/SS-9	03/25/14	16'-18'	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5
SB-22/SS-8	03/25/14	15'-17'	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
SB-23/SS-10	03/26/14	18'-20'	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2
SB-24/SS-10	03/24/14	19'-21'	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4
SB-25/SS-9	01/30/15	16'-18'	<5.2	<5.2	6.6	<5.2	<5.2	58.9	23.2	5.7
SB-26/SS-8	01/30/15	13'-15'	1,540	562	27,600	<274	5,000	5,700	60,900	20,100
SB-27/SS-9	01/31/15	15'-17'	182	56.4	114	28.3	24.9	10.7	28.1	19.8
SB-28/SS-7	01/31/15	11'-13'	834	15.5	278	55.6	49.8	82.2	266	129
SB-29/SS-9	02/02/15	15'-17'	<236	<236	3,110	<236	1,210	1,690	12,300	5,600
SB-30/SS-8	03/20/15	13'-15'	14,800	64,600	41,500	2,390	7,060	8,630	76,700	25,300
SB-30A/SS-8	07/06/15	13'-15'	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
SB-31/SS-9	07/06/15	15'-17'	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9

Residential Used Aquifer Soil to Groundwater	500	100,000	70,000	2,000	600,000	25,000	8,400	2,300
Residential Direct Contact 0-15'	57,000	10,000,000	10,000,000	620,000	7,700,000	4,400,000	130,000	110,000
Volatilization to Indoor Air - Residential	370	76,000	5,700	51,000	360,000	64,000	20,000	4,600

Notes:

Shaded cells indicate concentrations that exceed the PADEP Residential Statewide Health Standards (SHS)

Bolded results indicate concentrations that exceed the volatilization to indoor air - residential standard

**MSC's--Medium Specific Concentrations are designated as PADEP SHS.

µg/kg - micrograms per kilogram

MTBE - methyl tertiary-butyl ether

TMB - trimethylbenzene

TABLE 3
GROUNDWATER GAUGING DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	TOC Elevation (feet-msl)	Depth to Groundwater (feet)	Depth to LNAPL (feet)	Ground-water Elevation (feet-msl)	LNAPL Thickness (feet)	Corrected Depth to Groundwater (feet)	Groundwater Elevation (feet-msl)*
MW-1 (26.5/15) [2]	04/27/15	746.38	18.43	--	727.95	--	18.43	727.95
	04/03/14	746.38	18.56	--	727.82	--	18.56	727.82
	02/28/14	746.38	18.55	--	727.83	--	18.55	727.83
	01/09/14	746.38	18.29	--	728.09	--	18.29	728.09
	10/17/13	746.38	19.15	--	727.23	--	19.15	727.23
MW-2 (21.5/10) [2]	04/27/15	746.30	16.05	16.01	730.25	0.04	16.02	730.28
	04/08/15	746.30	16.10	16.00	730.20	0.10	16.03	730.28
	04/03/14	746.30	16.95	--	729.35	--	16.95	729.35
	02/28/14	746.30	16.47	--	729.83	--	16.47	729.83
	01/09/14	746.30	17.88	17.63	728.42	0.25	17.69	728.61
	10/17/13	746.30	18.31	--	727.99	--	18.31	727.99
MW-3 (26.5/15) [2]	04/27/15	745.92	19.51	19.46	726.41	0.05	19.47	726.45
	04/08/15	745.92	19.44	19.14	726.48	0.30	19.22	726.71
	04/03/14	745.92	19.50	--	726.42	--	19.50	726.42
	02/28/14	745.92	19.30	19.27	726.62	0.03	19.28	726.64
	01/09/14	745.92	19.88	19.56	726.04	0.32	19.64	726.28
	10/17/13	745.92	20.49	20.19	725.43	0.30	20.27	725.66
MW-4 (26.5/15) [2]	04/08/15	745.61	19.89	19.69	725.72	0.20	19.74	725.87
	04/27/15	745.61	19.30	19.28	726.31	0.02	19.29	726.33
	04/03/14	745.61	19.92	--	725.69	--	19.92	725.69
	02/28/14	745.61	19.57	--	726.04	--	19.57	726.04
	01/09/14	745.61	20.30	19.94	725.31	0.36	20.03	725.58
	10/17/13	745.61	21.10	20.31	724.51	0.79	20.51	725.10
MW-5 (26.5/15) [2]	04/27/15	745.54	18.96	--	726.58	--	18.96	726.58
	04/03/14	745.54	18.99	--	726.55	--	18.99	726.55
	02/28/14	745.54	18.77	--	726.77	--	18.77	726.77
	01/09/14	745.54	19.04	--	726.50	--	19.04	726.50
	10/17/13	745.54	19.54	--	726.00	--	19.54	726.00
MW-6 (26.5/15) [2]	04/27/15	745.53	19.00	18.97	726.53	0.03	18.98	726.55
	04/08/15	745.53	18.71	--	726.82	--	17.59	726.82
	04/03/14	745.53	17.59	--	727.94	--	17.59	727.94
	02/28/14	745.53	17.64	--	727.89	--	17.64	727.89
	01/09/14	745.53	17.63	17.62	727.90	0.01	17.62	727.91
	10/17/13	745.53	17.84	17.64	727.69	0.20	17.69	727.84

TABLE 3
GROUNDWATER GAUGING DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	TOC Elevation (feet-msl)	Depth to Groundwater (feet)	Depth to LNAPL (feet)	Ground-water Elevation (feet-msl)	LNAPL Thickness (feet)	Corrected Depth to Groundwater (feet)	Groundwater Elevation (feet-msl)*
MW-7 (26.5/15) [2]	04/27/15	745.97	17.46	--	728.51	--	17.46	728.51
	04/03/14	745.97	17.61	--	728.36	--	17.61	728.36
	02/28/14	745.97	17.66	--	728.31	--	17.66	728.31
	01/09/14	745.97	17.60	--	728.37	--	17.60	728.37
	10/17/13	745.97	18.22	--	727.75	--	18.22	727.75
MW-8 (26.5/15) [2]	04/27/15	745.98	16.70	16.63	729.28	0.07	16.65	729.33
	04/08/15	745.98	16.76	16.64	729.22	0.12	16.67	729.31
	04/03/14	745.98	16.82	--	729.16	--	16.82	729.16
	02/28/14	745.98	16.96	--	729.02	--	16.96	729.02
	01/09/14	745.98	17.20	17.05	728.78	0.15	17.09	728.89
	10/17/13	745.98	17.13	17.07	728.85	0.06	17.09	728.90
MW-9 (28/15) [2]	04/27/15	746.02	19.69	--	726.33	--	19.67	726.33
	04/03/14	746.02	19.58	--	726.44	--	19.58	726.44
	02/28/14	746.02	19.33	--	726.69	--	19.33	726.69
	01/09/14	746.02	19.61	--	726.41	--	19.61	726.41
MW-10 (28/15) [2]	04/27/15	746.31	15.90	--	730.41	--	15.90	730.41
	04/03/14	746.31	16.18	--	730.13	--	16.18	730.13
	02/28/14	746.31	16.40	--	729.91	--	16.40	729.91
	01/09/14	746.31	16.91	--	729.40	--	16.91	729.40
MW-11 (28/15) [4]	04/27/15	745.73	19.13	19.09	726.60	0.04	19.10	726.63
	04/08/15	745.73	18.62	--	727.11	--	18.62	727.11
	04/03/14	745.73	18.50	--	727.23	--	18.50	727.23
	02/28/14	745.73	18.38	--	727.35	--	18.38	727.35
	01/09/14	745.73	19.43	--	726.30	--	19.43	726.30
MW-12 (28/15) [2]	04/27/15	746.92	17.61	--	729.31	--	17.61	729.31
	04/03/14	746.92	17.79	--	729.13	--	17.79	729.13
	02/28/14	746.92	17.90	--	729.02	--	17.90	729.02
	01/09/14	746.92	17.70	--	729.22	--	17.70	729.22
MW-13 (28/15) [2]	04/27/15	745.21	MW-13 was dry					
	04/03/14	745.21	MW-13 was inaccessible					
	02/28/14	745.21	19.25	--	725.96	--	19.25	725.96
	01/09/14	745.21	19.42	--	725.79	--	19.42	725.79
MW-14 (27/15) [2]	04/27/15	746.04	14.84	--	731.20	--	14.84	731.20
	04/03/14	746.04	15.10	--	730.94	--	15.10	730.94
	02/28/14	746.04	15.33	--	730.71	--	15.33	730.71
MW-15 (30/15) [2]	04/27/15	746.39	20.84	--	725.55	--	20.84	725.55
	04/03/14	746.39	20.85	--	725.54	--	20.85	725.54
	02/28/14	746.39	20.51	--	725.88	--	20.51	725.88

TABLE 3
GROUNDWATER GAUGING DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	TOC Elevation (feet-msl)	Depth to Groundwater (feet)	Depth to LNAPL (feet)	Ground-water Elevation (feet-msl)	LNAPL Thickness (feet)	Corrected Depth to Groundwater (feet)	Groundwater Elevation (feet-msl)*
MW-16 (28/15) [2]	04/27/15	745.05	19.57	--	725.48	--	19.57	725.48
	05/05/14	745.05	19.57	--	725.48	--	19.57	725.48
	04/03/14	745.05	19.50	--	725.55	--	19.50	725.55
	02/28/14	745.05	19.15	--	725.90	--	19.15	725.90
MW-17 (30/15) [2]	04/27/15	745.90	20.58	--	725.32	--	20.58	725.32
	04/03/14	745.90	20.30	--	725.60	--	20.30	725.60
	02/28/14	745.90	19.97	--	725.93	--	19.97	725.93
MW-18 (30/15) [2]	04/27/15	746.72	19.03	--	727.69	--	19.03	727.69
	04/03/14	746.72	19.24	--	727.48	--	19.24	727.48
MW-19 (29/15) [2]	04/27/15	747.18	21.59	--	725.59	--	21.59	725.59
	04/03/14	747.18	21.76	--	725.42	--	21.76	725.42
MW-20 (30/15) [2]	04/27/15	745.60	20.20	--	725.40	--	20.20	725.40
	04/03/14	745.60	20.10	--	725.50	--	20.10	725.50
MW-21 (28/15) [2]	04/27/15	745.54	20.29	--	725.25	--	20.29	725.25
	04/03/14	745.54	19.81	--	725.73	--	19.81	725.73
MW-22 (28/16) [2]	04/27/15	746.35	16.50	--	729.85	--	16.50	729.85
	04/08/15	746.35	16.57	--	729.78	--	16.57	729.78
MW-23 (28/16) [2]	04/27/15	745.73	19.84	19.81	725.89	0.03	19.82	725.91
	04/08/15	745.73	20.12	--	725.61	--	20.12	725.61
MW-24 (26/14) [2]	04/27/15	743.49	17.23	--	726.26	--	17.23	726.26
	04/08/15	743.49	16.89	--	726.60	--	16.89	726.60
MW-25 (28/16) [2]	04/27/15	747.23	20.11	--	727.12	--	20.11	727.12
	04/08/15	747.23	19.85	--	727.38	--	19.85	727.38
MW-26 (28/15) [2]	04/27/15	744.93	19.48	19.46	725.45	0.02	19.47	725.47
	04/08/15	744.93	19.00	--	725.93	--	19.00	725.93

Notes:

TOC top of casing

GW groundwater

msl mean sea level

(25/20) total depth of well from grade/screen length (feet)

* groundwater elevation corrected for LNAPL thickness if present.

[4] monitor well diameter (inches)

LNAPL light non-aqueous phase liquids

-- no measurable amount

TABLE 4
GROUNDWATER ANALYTICAL DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Sample ID	Date	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	MTBE (µg/l)	Cumene (µg/l)	Naphtha- lene (µg/l)	1,2,4- TMB (µg/l)	1,3,5- TMB (µg/l)
MW-1	04/27/15	929	85.7	425	805	29.8	58.6	170	11.1
	04/03/14	15.6	11.3	<1	1,230	<1	<2	<1	<1
	02/28/14	209	8.8	9.4	1,630	<1	<2	4.1	2.3
	01/09/14	477	18	109	1,630	8.8	7.6	31.9	15.8
	10/17/13	603	98.1	9.3	4,670	1.3	<2	9.4	3
MW-2	04/27/15	Not sampled due to LNAPL							
	04/03/14	477	99.5	182	203	50.1	255	1,280	414
	02/28/14	1,100	533	1,160	176	115	363	4,680	1,480
	01/09/14	Not sampled due to LNAPL							
	10/17/13	1,470	1,980	1,260	2,670	147	484	2020	575
MW-3	04/27/15	Not sampled due to LNAPL							
	04/03/14	2,820	1,520	101	2,450	45.6	284	2,510	708
	02/28/14	Not sampled due to LNAPL							
	01/09/14								
	10/17/13								
MW-4	04/27/15	Not sampled due to LNAPL							
	04/03/14	5,450	20,900	2,330	284	146	381	2,980	828
	02/28/14	4,370	14,800	1,470	805	108	231	2,730	971
	01/09/14	Not sampled due to LNAPL							
	10/17/13								
MW-5	04/27/15	38.4	<1	168	992	31.2	18.5	46.6	<1
	04/03/14	44.5	3.7	144	1,400	25.4	21.1	13.4	1.1
	02/28/14	36.7	1.3	138	1,230	26.4	17.6	23.7	1.1
	01/09/14	15.3	<1	115	859	23	20.1	30	8.6
	10/17/13	7.2	11.5	188	879	30.1	35.2	171	67.9
MW-6	04/27/15	Not sampled due to LNAPL							
	04/03/14	18,100	23,200	3,310	69,700	157	4,950	4,270	1,160
	02/28/14	15,400	23,800	2,780	60,200	151	966	2,300	628
	01/09/14	16,800	24,700	3,270	81,300	161	1,860	2,770	782
	10/17/13	Not sampled due to LNAPL							
MW-7	04/27/15	1,430	93.3	399	166	48.3	72.3	642	213
	04/03/14	607	81.4	156	701	26.6	26.3	497	186
	02/28/14	562	21	129	567	23.6	37.6	711	210
	01/09/14	663	191	180	660	39.4	78	843	168
	10/17/13	1,010	1,140	197	1,270	26.7	18.1	183	47.4

TABLE 4
GROUNDWATER ANALYTICAL DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Sample ID	Date	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	MTBE (µg/l)	Cumene (µg/l)	Naphtha- lene (µg/l)	1,2,4- TMB (µg/l)	1,3,5- TMB (µg/l)
MW-8	04/27/15	Not sampled due to LNAPL							
	04/03/14	5,010	9,690	883	1,570	93.7	179	1,880	377
	02/28/14	4,880	10,400	706	1,650	80	172	1,140	314
	01/09/14	Not sampled due to LNAPL							
	10/17/13								
MW-9	04/27/15	<1	<1	<1	<1	<1	<2	<1	<1
	04/03/14	<1	<1	<1	<1	<1	<2	<1	<1
	02/28/14	<1	<1	<1	<1	<1	<2	1.7	<1
	01/09/14	<1	<1	<1	<1	<1	<2	<1	<1
MW-10	04/27/15	<1	<1	<1	<1	<1	<2	<1	<1
	04/03/14	<1	<1	<1	<1	<1	<2	<1	<1
	02/28/14	<1	<1	<1	<1	<1	<2	2	<1
	01/09/14	<1	<1	<1	<1	<1	<2	<1	<1
MW-11	04/27/15	Not sampled due to LNAPL							
	04/03/14	1,150	77.3	190	508	32.2	35.2	203	71
	02/28/14	1,530	227	464	848	73.8	58.7	455	98.9
	01/09/14	1,510	305	339	454	60.8	98.1	540	238
MW-12	04/27/15	<1	<1	<1	12.9	<1	<2	<1	<1
	04/03/14	<1	<1	<1	23.7	<1	<2	<1	<1
	02/28/14	<1	<1	<1	28.7	<1	<2	<1	<1
	01/09/14	<1	<1	<1	8.1	<1	<2	<1	<1
MW-13	04/27/15	MW-13 was dry.							
	04/03/14	Monitor Well MW-13 was inaccessible.							
	02/28/14	5.8	<1	<1	4,510	<1	<2	<1	<1
	01/29/14	10.2	<1	<1	633	<1	<2	<1	<1
	01/09/14	6.8	<1	<1	1,200	<1	<2	<1	<1
MW-14	04/27/15	<1	<1	<1	<1	<1	<2	<1	<1
	04/03/14	<1	<1	<1	<1	<1	2.1	<1	<1
	02/28/14	<1	<1	<1	<1	<1	<2	<1	<1
MW-15	04/27/15	<1	<1	<1	5.6	<1	<2	<1	<1
	04/03/14	<1	<1	<1	15.2	<1	<2	<1	<1
	02/28/14	<1	<1	<1	99.2	<1	<2	<1	<1
MW-16	04/27/15	<1	<1	<1	9.8	<1	<2	<1	<1
	05/05/14	<1	<1	<1	181	<1	<2	<1	<1
	04/03/14	<1	<1	<1	203	<1	<2	<1	<1
	02/28/14	<1	<1	<1	470	<1	<2	<1	<1

TABLE 4
GROUNDWATER ANALYTICAL DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Sample ID	Date	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	MTBE (µg/l)	Cumene (µg/l)	Naphtha- lene (µg/l)	1,2,4- TMB (µg/l)	1,3,5- TMB (µg/l)
MW-17	04/27/15	<1	<1	<1	27.9	<1	<2	<1	<1
	04/03/14	<1	<1	<1	152	<1	<2	<1	<1
	02/28/14	<1	<1	<1	62.1	<1	<2	<1	<1
MW-18	04/27/15	<1	<1	<1	<1	<1	<2	<1	<1
	04/03/14	<1	2.4	<1	<1	<1	<2	<1	<1
MW-19	04/27/15	<1	<1	<1	<1	<1	<2	<1	<1
	04/03/14	<1	<1	<1	1.3	<1	<2	<1	<1
MW-20	04/27/15	<1	<1	<1	<1	<1	<2	2.0	<1
	04/03/14	<1	<1	<1	<1	<1	<2	<1	<1
MW-21	04/27/15	<1	<1	<1	<1	<1	<2	<1	<1
	04/03/14	<1	<1	<1	<1	<1	<2	<1	<1
MW-22	04/27/15	<1	1.2	<1	<1	<1	<2	5.6	2.3
	04/08/15	<1	<1	<1	<1	<1	2.3	3.1	<1
MW-23	04/27/15 04/08/15	Not sampled due to LNAPL							
MW-24	04/27/15	1.4	<1	<1	12.0	<1	<2	<1	<1
	04/08/15	<1	<1	<1	<1	<1	<2	<1	<1
MW-25	04/27/15	6.0	<1	<1	59.2	<1	<2	5.6	3.8
	04/08/15	10.5	<1	<1	227	<1	<2	3.9	3
MW-26	04/27/15	6,710	7,460	1,440	3,310	77.5	221	1,040	244
	04/08/15	1,740	1,620	560	1,770	31.3	79.2	390	102

Medium Specific Concentrations (MSCs)*	5	1,000	700	20	840	100	15	13
Volatilization to Indoor Air (Residential)	3,500	490,000	27,000	380,000	NOC	25,000	8,600	7,200

Notes:

TMB Trimethylbenzene

(µg/l) micrograms per liter

MTBE methyl tertiary-butyl ether

*MSC's Medium Specific Concentrations are designated as the residential PADEP Statewide Health Standards

NOC not of concern

Italics limited confirmatory sampling event

Note: Regulatory exceedances for the most recent sampling event are illustrated by the shaded areas.

TABLE 5
TOTAL DISSOLVED SOLIDS DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Date	Total Dissolved Solids (mg/l)
MW-1	10/17/13	814
MW-2	10/17/13	760
MW-3	10/17/13	LNAPL
MW-4	10/17/13	LNAPL
MW-5	10/17/13	867
MW-6	10/17/13	LNAPL
MW-7	10/17/13	822
MW-8	10/17/13	LNAPL
MW-9	01/09/14	1,390
MW-10	01/09/14	544
MW-11	01/09/14	747
MW-12	01/09/14	880
MW-13	01/09/14	2,950
MW-14	02/28/14	731
MW-15	02/28/14	599
MW-16	02/28/14	1,970
MW-17	02/28/14	1,040
MW-18	04/03/14	1,210
MW-19	04/03/14	920
MW-20	04/03/14	636
MW-21	04/03/14	1,920
MW-22	04/08/15	742
MW-23	04/08/15	LNAPL
MW-24	04/08/15	755
MW-25	04/08/15	653
MW-26	04/08/15	940
Average		995

Notes:

mg/l -- milligrams per liter

LNAPL - Not sampled due to the prescence of LNAPL

TABLE 6
LNAPL RECOVERY DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	Top of PVC Casing Elevation (feet msl)	Depth to LNAPL (Feet)*	Depth To Water (Feet)*	LNAPL Thickness (Feet)*	Adjusted Groundwater Elevation (feet msl)*	Volume of LNAPL Recovered** by Bailing or Absorbent Sock Recovery (gallons)	Volume Recovered by Vacuum Extraction (gallons)
MW- 2	08/05/15	746.30	--	16.15	--	730.15	--	
	07/17/15	746.30	15.92	16.12	0.20	730.33	0.50	
	04/27/15	746.30	16.01	16.05	0.04	730.28	--	
	03/10/15	746.30	--	17.03	--	729.27	--	
	02/10/15	746.30	--	15.98	--	730.32	--	
	01/13/15	746.30	--	15.94	--	730.36	--	
	12/12/14	746.30	16.02	16.03	0.01	731.04	<0.10	
	11/13/14	746.30	--	dry	--	dry	--	
	10/13/14	746.30	--	dry	--	dry	--	
	09/02/14	746.30	18.35	18.36	0.01	727.95	0.10	
	08/15/14	746.30	--	18.77	--	727.53	<0.10	
	07/29/14	746.30	--	17.36	--	728.94	<0.10	
	07/16/14	746.30	--	18.26	--	728.04	<0.10	
	07/03/14	746.30	--	16.5	--	729.80	<0.10	
	06/27/14	746.30	--	18.32	--	727.98	<0.10	
	06/10/14	746.30	--	16.88	--	729.42	<0.10	
	05/22/14	746.30	--	16.15	--	730.15	<0.10	
	05/05/14	746.30	--	17.96	--	728.34	<0.10	
	04/25/14	746.30	--	17.48	--	728.82	<0.10	
	03/27/14	746.30	--	17.95	--	728.35	<0.10	

TABLE 6
LNAPL RECOVERY DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	Top of PVC Casing Elevation (feet msl)	Depth to LNAPL (Feet)*	Depth To Water (Feet)*	LNAPL Thickness (Feet)*	Adjusted Groundwater Elevation (feet msl)*	Volume of LNAPL Recovered** by Bailing or Absorbent Sock Recovery (gallons)	Volume Recovered by Vacuum Extraction (gallons)
MW- 2	03/14/14	746.30	--	17.33	--	728.97	<0.10	
	02/24/14	746.30	--	16.30	--	730.00	<0.10	
	02/13/14	746.30	Unable to locate due to snowpack and ice				--	
	01/29/14	746.30	--	dry	--	--	<0.10	
	01/24/14	746.30	Not gauged during LNAPL recovery event				0.00	
	01/17/14	746.30	Not gauged during LNAPL recovery event				0.00	
	01/09/14	746.30	17.63	17.88	0.25	728.61	0.30	
Total Gallons Removed to Date from MW-2							1.16	

TABLE 6
LNAPL RECOVERY DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	Top of PVC Casing Elevation (feet msl)	Depth to LNAPL (Feet)*	Depth To Water (Feet)*	LNAPL Thickness (Feet)*	Adjusted Groundwater Elevation (feet msl)*	Volume of LNAPL Recovered** by Bailing or Absorbent Sock Recovery (gallons)	Volume Recovered by Vacuum Extraction (gallons)
MW- 3	08/05/15	745.92	20.09	20.21	0.12	725.80	0.50	
	07/17/15	745.92	19.07	19.30	0.23	726.79	0.75	
	04/27/15	745.92	19.46	19.51	0.05	726.45	--	
	03/10/15	745.92	--	20.46	--	725.46	--	--
	02/10/15	745.92	21.18	21.35	0.17	724.70	--	Not Recorded
	01/13/15	745.92	20.73	20.92	0.19	725.14	--	50
	12/12/14	745.92	19.75	20.01	0.26	726.11	0.50	
	11/13/14	745.92	21.66	21.93	0.27	724.19	0.50	
	10/13/14	745.92	21.78	22.50	0.72	723.42	0.40	
	09/02/14	745.92	21.50	21.79	0.29	724.13	0.25	
	08/15/14	745.92	21.10	21.19	0.09	724.73	0.25	
	07/29/14	745.92	--	21.14	--	724.78	<0.10	
	07/16/14	745.92	20.77	20.79	0.02	725.13	0.10	
	07/03/14	745.92	--	20.16	--	725.76	<0.10	
	06/27/14	745.92	--	18.68	--	727.24	<0.10	
	06/10/14	745.92	--	20.52	--	725.4	<0.10	
	05/22/14	745.92	--	18.54	--	727.38	<0.10	
	05/05/14	745.92	--	19.58	--	726.34	<0.10	
	04/25/14	745.92	--	19.32	--	726.6	<0.10	
	03/27/14	745.92	--	19.64	--	726.28	<0.10	
	03/14/14	745.92	--	19.43	--	726.49	<0.10	
	02/24/14	745.92	--	19.10	--	726.82	<0.10	
	02/13/14	745.92	--	19.99	--	725.93	<0.10	
	01/29/14	745.92	--	20.36	--	725.56	0.10	
	01/24/14	745.92	--	19.69	--	726.23	0.20	
	01/17/14	745.92	--	18.41	--	727.51	0.20	

TABLE 6
LNAPL RECOVERY DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	Top of PVC Casing Elevation (feet msl)	Depth to LNAPL (Feet)*	Depth To Water (Feet)*	LNAPL Thickness (Feet)*	Adjusted Groundwater Elevation (feet msl)*	Volume of LNAPL Recovered** by Bailing or Absorbent Sock Recovery (gallons)	Volume Recovered by Vacuum Extraction (gallons)
MW- 3	01/09/14	745.92	19.56	19.88	0.32	726.28	0.30	
	12/13/13	745.92	20.65	21.20	0.55	725.13	0.40	
	12/06/13	745.92	20.78	21.56	0.78	724.95	0.35	
	11/26/13	745.92	20.2	20.53	0.33	725.64	0.35	
	11/15/13	745.92	21.08	21.55	0.47	724.72	0.60	
	11/07/13	745.92	19.56	19.87	0.31	726.28	0.35	
	10/31/13	745.92	19.95	20.11	0.16	725.93	0.12	
	10/25/13	745.92	19.96	20.54	0.58	725.82	0.60	
	10/17/13	745.92	20.19	20.49	0.30	725.66	0.75	
Total Gallons Removed to Date from MW-3							6.29	50

TABLE 6
LNAPL RECOVERY DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	Top of PVC Casing Elevation (feet msl)	Depth to LNAPL (Feet)*	Depth To Water (Feet)*	LNAPL Thickness (Feet)*	Adjusted Groundwater Elevation (feet msl)*	Volume of LNAPL Recovered** by Bailing or Absorbent Sock Recovery (gallons)	Volume Recovered by Vacuum Extraction (gallons)
MW-4	04/27/15	745.61	19.69	19.89	0.20	725.72	--	--
	03/10/15	745.61	--	20.46	--	725.15	--	--
	02/10/15	745.61	--	21.45	--	724.16	--	Not Recorded
	01/13/15	745.61	--	21.02	--	724.59	--	125
	12/12/14	745.61	--	20.05	--	725.56	<0.10	
	11/13/14	745.61	--	22.28	--	723.33	0.20	
	10/13/14	745.61	22.38	22.44	0.06	723.22	0.25	
	09/02/14	745.61	--	22.01	--	723.60	0.10	
	07/29/14	745.61	--	21.35	--	724.26	<0.10	
	07/16/14	745.61	--	21.16	--	724.45	<0.10	
	07/03/14	745.61	--	20.45	--	725.16	<0.10	
	06/27/14	745.61	--	19.83	--	725.78	0.15	
	06/10/14	745.61	20.86	21.04	0.18	724.71	0.25	
	05/22/14	745.61	18.69	18.74	0.05	726.91	0.15	
	05/05/14	745.61	19.93	20.01	0.08	725.66	0.10	
	04/25/14	745.61	20.12	20.52	0.40	725.39	0.50	
	03/27/14	745.61	20.00	20.09	0.09	725.59	0.10	
	03/14/14	745.61	19.85	19.86	0.01	725.76	0.10	
	02/24/14	745.61	--	19.44	--	726.17	<0.10	
	02/13/14	745.61	--	20.30	--	725.31	<0.10	
	01/29/14	745.61	20.66	20.79	0.13	724.92	0.20	
	01/24/14	745.61	19.96	20.09	0.13	725.62	0.30	
	01/17/14	745.61	18.6	18.76	0.16	726.97	0.40	
	01/09/14	745.61	19.94	20.30	0.36	725.58	0.50	

TABLE 6
LNAPL RECOVERY DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	Top of PVC Casing Elevation (feet msl)	Depth to LNAPL (Feet)*	Depth To Water (Feet)*	LNAPL Thickness (Feet)*	Adjusted Groundwater Elevation (feet msl)*	Volume of LNAPL Recovered** by Bailing or Absorbent Sock Recovery (gallons)	Volume Recovered by Vacuum Extraction (gallons)
MW-4	12/13/13	745.61	21.08	21.13	0.05	724.52	0.20	
	12/06/13	745.61	21.03	21.51	0.48	724.46	0.45	
	11/26/13	745.61	20.52	20.64	0.12	725.06	0.50	
	11/15/13	745.61	21.49	21.86	0.37	724.03	0.45	
	11/07/13	745.61	19.83	20.15	0.32	725.70	0.40	
	10/31/13	745.61	20.17	20.41	0.24	725.38	0.22	
	10/25/13	745.61	20.15	20.89	0.74	725.28	0.60	
	10/17/13	745.61	20.31	21.10	0.79	725.10	1.10	
Total Gallons Removed to Date from MW-4							6.77	125

TABLE 6
LNAPL RECOVERY DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	Top of PVC Casing Elevation (feet msl)	Depth to LNAPL (Feet)*	Depth To Water (Feet)*	LNAPL Thickness (Feet)*	Adjusted Groundwater Elevation (feet msl)*	Volume of LNAPL Recovered** by Bailing or Absorbent Sock Recovery (gallons)	Volume Recovered by Vacuum Extraction (gallons)
MW-6	8/5/15	745.53	19.41	19.60	0.19	726.07	0.50	
	7/17/15	745.53	18.42	18.53	0.11	727.08	0.40	
	4/27/15	745.53	18.97	19.02	0.05	726.55	--	
	03/10/15	745.53	19.15	19.92	0.77	726.19	--	394
	02/10/15	745.53	17.90	17.94	0.04	727.62	--	Not Recorded
	01/13/15	745.53	17.81	17.85	0.04	727.71	--	84
	12/12/14	745.53	--	17.76	--	727.77	<0.10	
	11/13/14	745.53	18.42	18.49	0.07	727.09	0.30	
	10/13/14	745.53	18.50	18.70	0.20	726.98	0.25	
	09/02/14	745.53	18.11	18.19	0.08	727.40	0.25	
	07/29/14	745.53	--	17.87	--	727.66	<0.10	
	07/16/14	745.53	--	17.85	--	727.68	<0.10	
	07/03/14	745.53	--	17.53	--	728.00	<0.10	
	06/27/14	745.53	--	17.48	--	728.05	<0.10	
	06/10/14	745.53	--	17.70	--	727.83	<0.10	
	05/22/14	745.53	--	17.33	--	728.20	<0.10	
	05/05/14	745.53	--	17.90	--	727.63	<0.10	
	04/25/14	745.53	--	17.56	--	727.97	<0.10	
	03/27/14	745.53	--	17.81	--	727.72	<0.10	
	03/14/14	745.53	--	17.75	--	727.78	<0.10	
	02/24/14	745.53	--	17.70	--	727.83	<0.10	
	02/13/14	745.53	--	17.88	--	727.65	<0.10	
	01/29/14	745.53	--	17.75	--	727.78	<0.10	
	01/24/14	745.53	--	17.59	--	727.94	0.10	
	01/17/14	745.53	--	17.37	--	728.16	0.10	
	01/09/14	745.53	17.62	17.63	0.01	727.91	0.10	

TABLE 6
LNAPL RECOVERY DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	Top of PVC Casing Elevation (feet msl)	Depth to LNAPL (Feet)*	Depth To Water (Feet)*	LNAPL Thickness (Feet)*	Adjusted Groundwater Elevation (feet msl)*	Volume of LNAPL Recovered** by Bailing or Absorbent Sock Recovery (gallons)	Volume Recovered by Vacuum Extraction (gallons)
MW-6	12/13/13	745.53	--	18.82	--	726.71	0.10	
	12/06/13	745.53	17.82	17.83	0.01	727.71	<0.10	
	11/26/13	745.53	17.68	17.73	0.05	727.84	0.10	
	11/15/14	745.53	17.19	17.34	0.15	728.30	0.25	
	11/07/13	745.53	--	16.67	--	728.86	0.20	
	10/31/13	745.53	--	16.65	--	728.88	0.10	
	10/25/13	745.53	17.72	17.75	0.03	727.80	0.10	
	10/17/13	745.53	17.64	17.84	0.20	727.84	0.10	
Total Gallons Removed to Date from MW-6							2.75	478

TABLE 6
LNAPL RECOVERY DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	Top of PVC Casing Elevation (feet msl)	Depth to LNAPL (Feet)*	Depth To Water (Feet)*	LNAPL Thickness (Feet)*	Adjusted Groundwater Elevation (feet msl)*	Volume of LNAPL Recovered** by Bailing or Absorbent Sock Recovery (gallons)	Volume Recovered by Vacuum Extraction (gallons)
MW-8	8/5/15	745.98	--	16.81	--	729.17	--	
	7/17/15	745.98	16.58	16.69	0.11	729.37	0.50	
	4/27/15	745.98	16.63	16.70	0.07	729.33	--	
	03/10/15	745.98	16.72	16.75	0.03	741.79	--	68
	02/10/15	745.98	16.94	16.96	0.02	741.74	--	Not Recorded
	01/13/15	745.98	16.76	16.93	0.17	741.75	--	120
	12/12/14	745.98	--	16.84	--	729.14	<0.10	
	11/13/14	745.98	17.08	17.10	0.02	741.71	0.20	
	10/13/14	745.98	17.08	17.18	0.10	741.69	0.10	
	09/02/14	745.98	--	16.95	--	729.03	0.10	
	08/15/14	745.98	--	17.01	--	728.97	<0.10	
	07/29/14	745.98	--	16.81	--	729.17	<0.10	
	07/16/14	745.98	--	16.85	--	729.13	<0.10	
	07/03/14	745.98	--	16.72	--	729.26	<0.10	
	06/27/14	745.98	--	16.75	--	729.23	<0.10	
	06/10/14	745.98	--	16.85	--	729.13	<0.10	
	05/22/14	745.98	16.63	16.65	0.02	729.35	0.10	
	05/05/14	745.98	--	16.86	--	729.12	<0.10	
	04/25/14	745.98	16.77	16.79	0.02	729.21	0.50	
	03/27/14	745.98	16.83	16.84	0.01	729.15	<0.10	
	03/14/14	745.98	16.90	16.92	0.02	729.08	0.10	
	02/24/14	745.98	16.78	16.88	0.10	729.18	<0.01	
	02/13/14	745.98	unable to locate due to packed snow and ice				--	
	01/29/14	745.98	unable to locate due to packed snow and ice				--	
	01/24/14	745.98	--	19.32	--	726.66	0.20	
	01/17/14	745.98	--	16.81	--	729.17	0.10	

TABLE 6
LNAPL RECOVERY DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	Top of PVC Casing Elevation (feet msl)	Depth to LNAPL (Feet)*	Depth To Water (Feet)*	LNAPL Thickness (Feet)*	Adjusted Groundwater Elevation (feet msl)*	Volume of LNAPL Recovered** by Bailing or Absorbent Sock Recovery (gallons)	Volume Recovered by Vacuum Extraction (gallons)
MW-8	01/09/14	745.98	17.05	17.20	0.15	728.89	0.25	
	12/13/13	745.98	17.08	17.09	0.01	728.90	0.10	
	12/06/13	745.98	17.21	17.33	0.01	728.66	0.10	
	11/26/13	745.98	17.02	17.04	0.02	728.96	0.10	
	11/15/14	745.98	17.19	17.34	0.15	728.75	0.25	
	11/07/13	745.98	16.99	17.01	0.02	728.99	0.20	
	10/31/13	745.98	16.75	16.79	0.04	729.22	0.10	
	10/25/13	745.98	17.11	17.31	0.20	728.82	0.25	
	10/17/13	745.98	17.07	17.13	0.06	728.90	0.15	
Total Gallons Removed to Date from MW-8							3.60	188

TABLE 6
LNAPL RECOVERY DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	Top of PVC Casing Elevation (feet msl)	Depth to LNAPL (Feet)*	Depth To Water (Feet)*	LNAPL Thickness (Feet)*	Adjusted Groundwater Elevation (feet msl)*	Volume of LNAPL Recovered** by Bailing or Absorbent Sock Recovery (gallons)	Volume Recovered by Vacuum Extraction (gallons)
MW-11	08/05/15	745.73	--	19.53	--	726.2	--	
	07/17/15	745.73	--	18.73	--	727	--	
	04/27/15	745.73	19.09	19.13	0.04	726.63	--	
	03/10/15	745.73	--	19.87	--	724.03	--	
	02/10/15	745.73	--	20.88	--	724.03	--	
	01/13/15	745.73	--	20.31	--	724.03	--	
	12/12/14	745.73	--	19.38	--	726.35	<0.10	
	11/13/14	745.73	--	21.70	--	724.03	<0.10	
	10/13/14	745.73	21.74	21.75	0.01	723.99	<0.10	
	09/02/14	745.73	--	21.39	--	724.34	0.10	
	07/29/14	745.73	--	20.45	--	725.28	<0.10	
	07/16/14	745.73	--	20.13	--	725.6	<0.10	
	07/03/14	745.73	--	19.27	--	726.46	<0.10	
	06/27/14	745.73	--	19.33	--	726.40	<0.10	
	06/10/14	745.73	--	19.52	--	726.21	<0.10	
	05/22/14	745.73	--	18.30	--	727.43	<0.10	
	05/05/14	745.73	18.87	18.89	0.02	726.86	<0.10	
	04/25/14	745.73	--	19.02	--	726.71	<0.10	
	03/27/14	745.73	--	18.86	--	726.87	<0.10	

TABLE 6
LNAPL RECOVERY DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	Top of PVC Casing Elevation (feet msl)	Depth to LNAPL (Feet)*	Depth To Water (Feet)*	LNAPL Thickness (Feet)*	Adjusted Groundwater Elevation (feet msl)*	Volume of LNAPL Recovered** by Bailing or Absorbent Sock Recovery (gallons)	Volume Recovered by Vacuum Extraction (gallons)
MW-11	03/14/14	745.73	--	18.88	--	726.85	<0.10	
	02/24/14	745.73	--	18.59	--	727.14	<0.10	
	02/13/14	745.73		19.70	--	726.03	<0.10	
	01/29/14	745.73	--	20.02	--	725.71	<0.10	
	01/24/14	745.73	--	19.32	--	726.41	0.10	
	01/17/14	745.73	Not gauged during LNAPL recovery event				0.00	
	01/09/14	745.73	--	19.43	--	726.30	0.10	
Total Gallons Removed to Date from MW-11							0.54	

TABLE 6
LNAPL RECOVERY DATA
Lamagna Cheese Company
One Lamagna Drive
Verona, Pennsylvania 15147

Well ID	Gauging Date	Top of PVC Casing Elevation (feet msl)	Depth to LNAPL (Feet)*	Depth To Water (Feet)*	LNAPL Thickness (Feet)*	Adjusted Groundwater Elevation (feet msl)*	Volume of LNAPL Recovered** by Bailing or Absorbent Sock Recovery (gallons)	Volume Recovered by Vacuum Extraction (gallons)
MW-23	8/5/2015	745.73	20.44	20.54	0.10	725.27	0.30	
	7/17/2015	745.73	19.47	19.66	0.19	726.21	1.25	
	4/27/2015	745.73	19.81	19.84	0.03	725.91	--	
Total Gallons Removed to Date from MW-23							1.55	
MW-26 (2-inch)	8/5/2015	744.93	19.88	19.94	0.06	725.04	0.30	
	7/17/2015	744.93	--	19.06	--	725.87	--	
	4/27/2015	744.93	19.46	19.48	0.02	725.47		
Total Gallons Removed to Date form MW-26							0.30	
Total Gallons Removed to Date Site-wide							22.96	841

Notes:

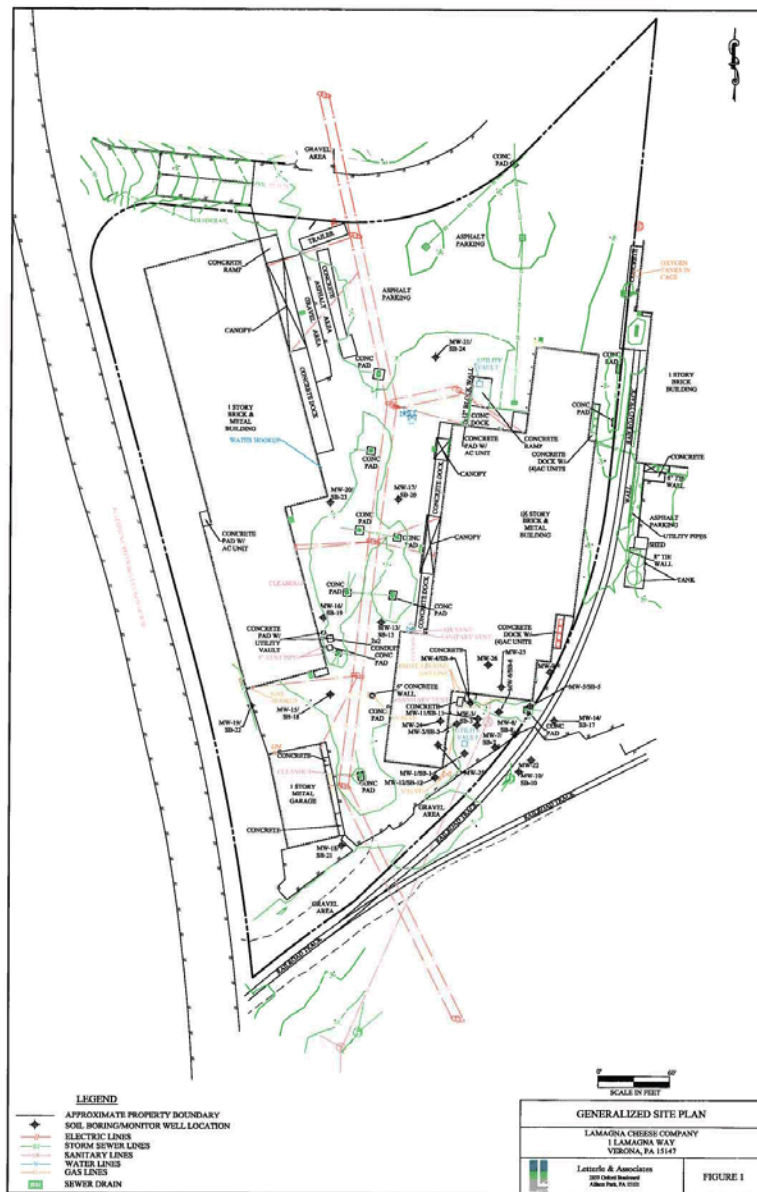
LNAPL Light non-aqueous phase liquid

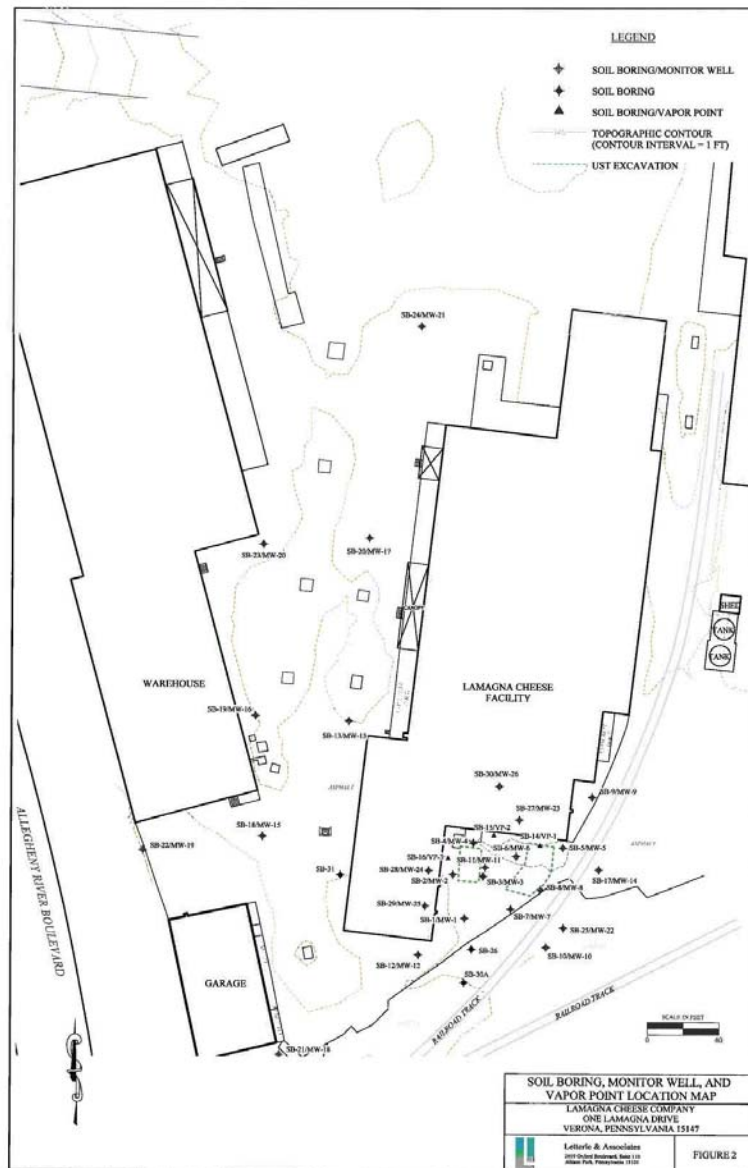
-- No measureable thickness of LNAPL was present

*All measurements are approximate and were typically obtained using an electronic oil/water interface probe. Bailers may be used to approximate the LNAPL thickness if the interface probe is not operational.

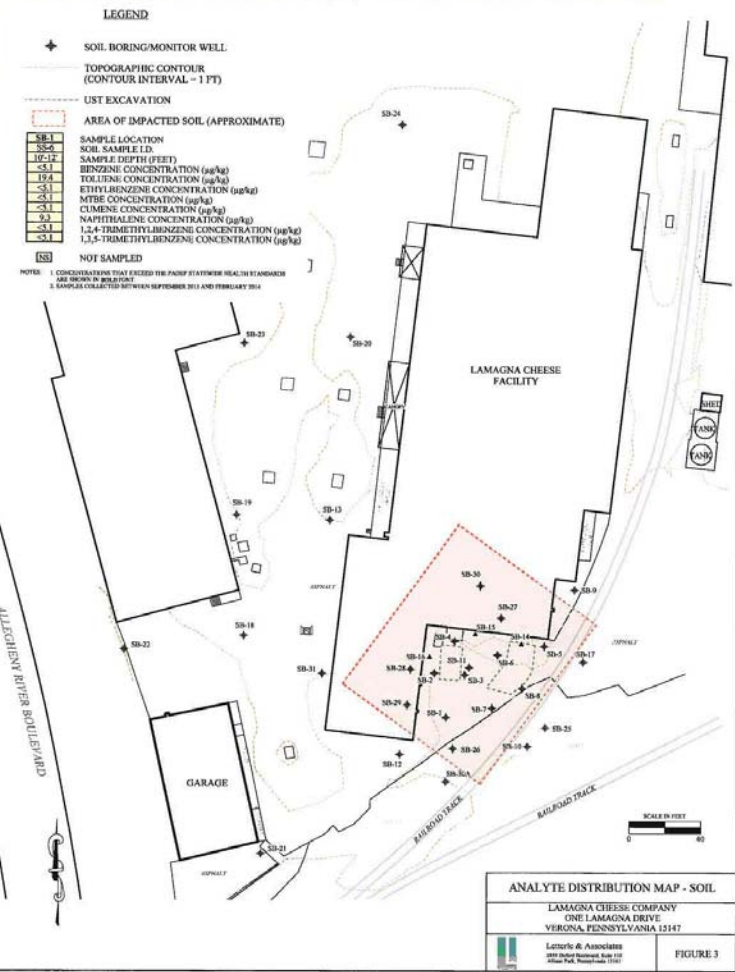
**Volume recovered represents LNAPL and groundwater totals

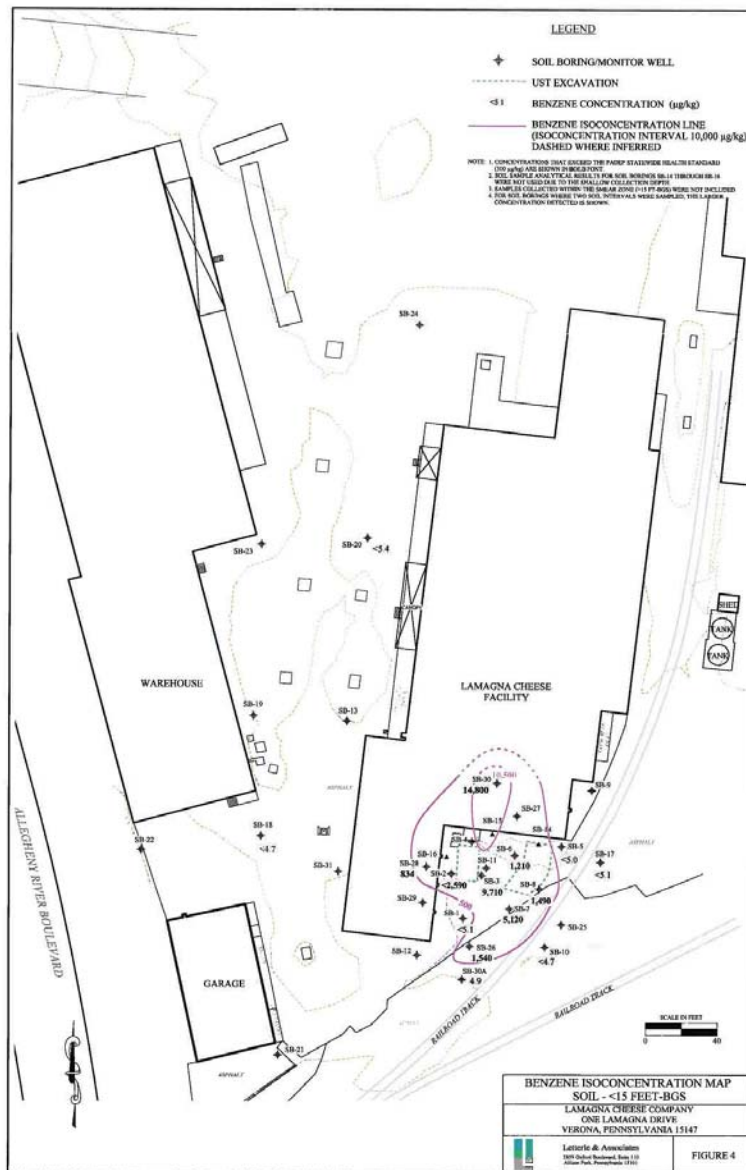
FIGURES

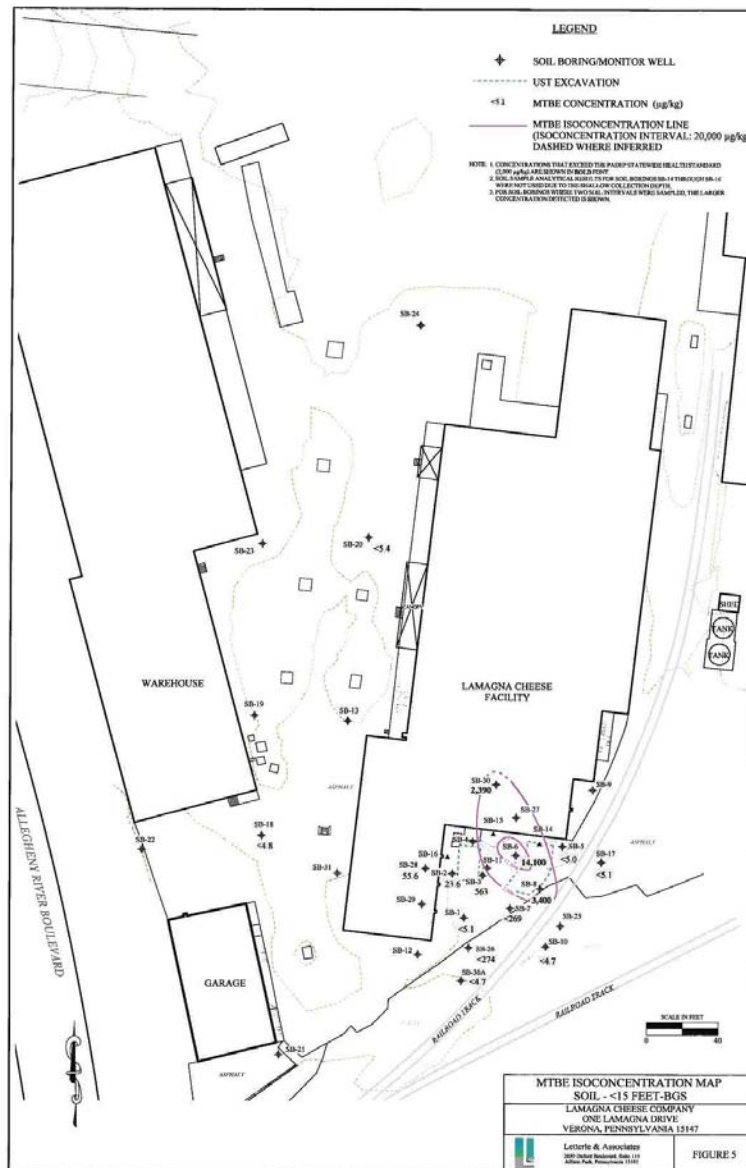


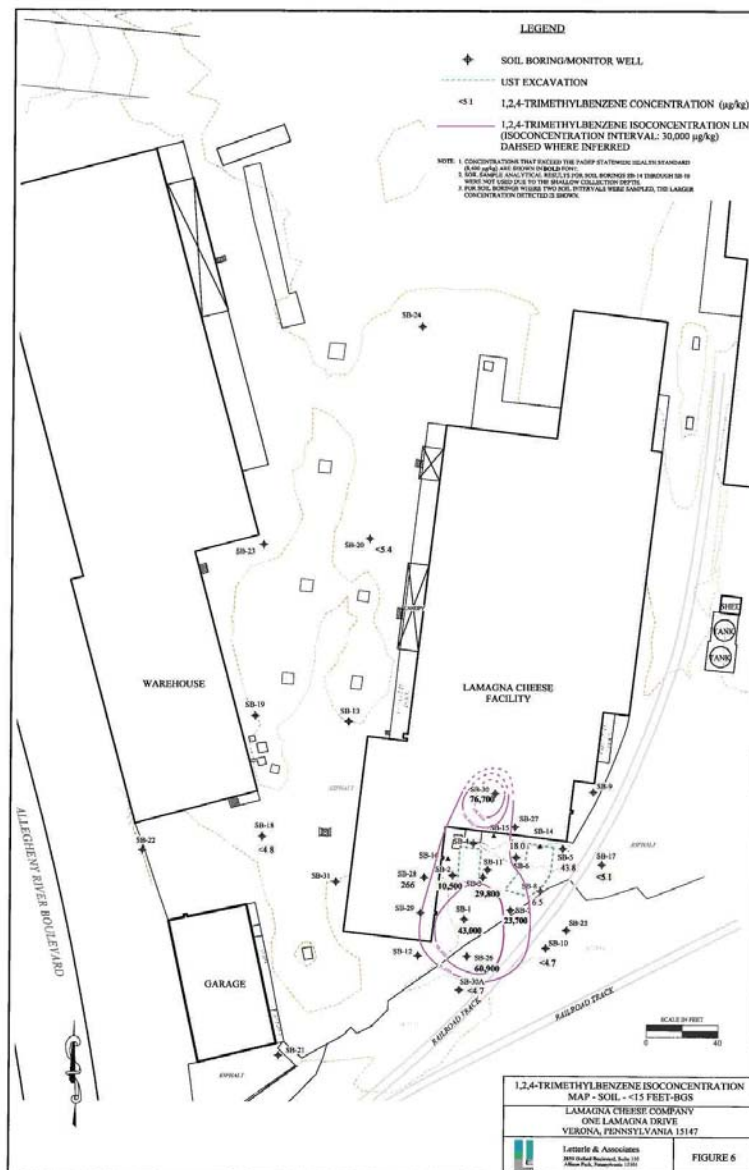


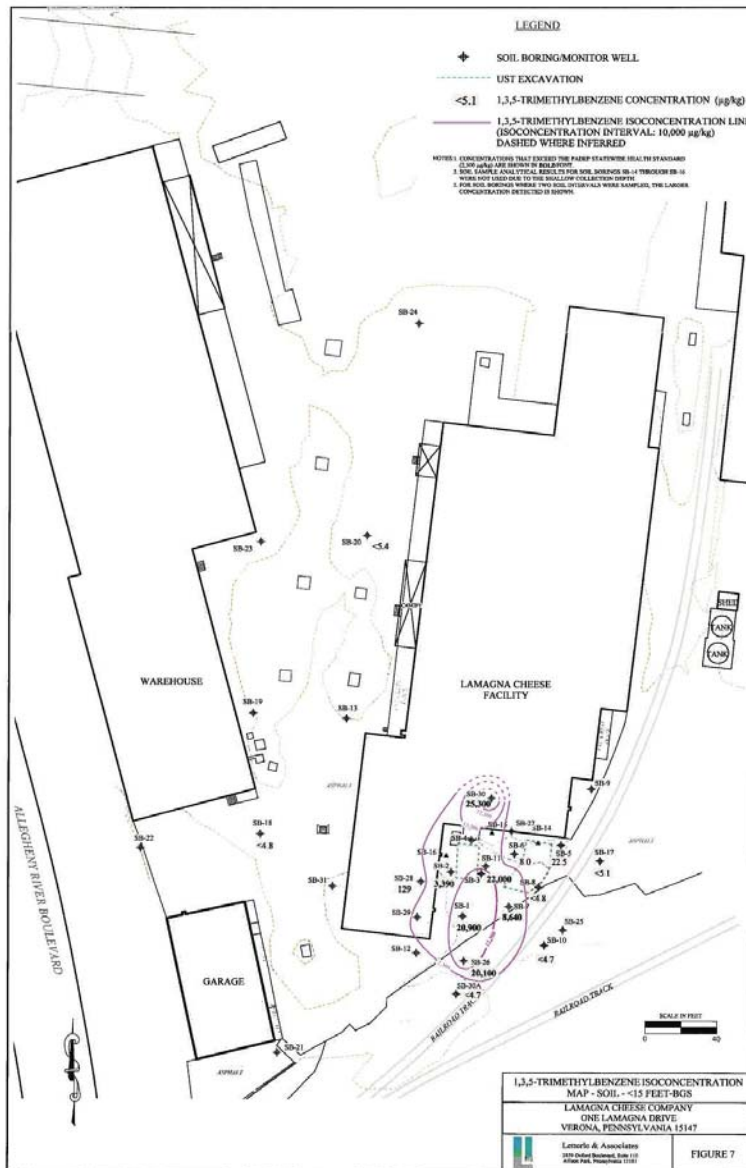
SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16	SB-17	SB-18	SB-19	SB-20	SB-21	SB-22	SB-23	SB-24	SB-25	SB-26	SB-27	SB-28	SB-29	SB-30	SB-31	SB-32	SB-33	SB-34	SB-35	SB-36	SB-37	SB-38	SB-39	SB-40	SB-41	SB-42	SB-43	SB-44	SB-45	SB-46	SB-47	SB-48	SB-49	SB-50	SB-51	SB-52	SB-53	SB-54	SB-55	SB-56	SB-57	SB-58	SB-59	SB-60	SB-61	SB-62	SB-63	SB-64	SB-65	SB-66	SB-67	SB-68	SB-69	SB-70	SB-71	SB-72	SB-73	SB-74	SB-75	SB-76	SB-77	SB-78	SB-79	SB-80	SB-81	SB-82	SB-83	SB-84	SB-85	SB-86	SB-87	SB-88	SB-89	SB-90	SB-91	SB-92	SB-93	SB-94	SB-95	SB-96	SB-97	SB-98	SB-99	SB-100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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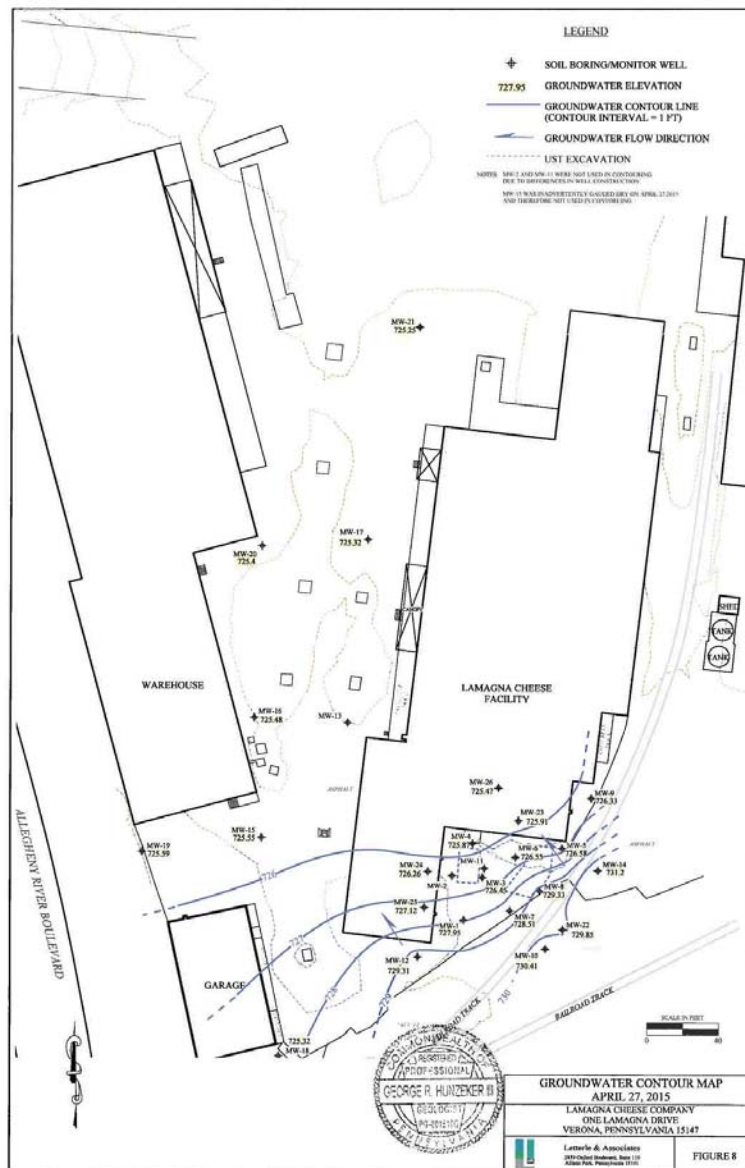


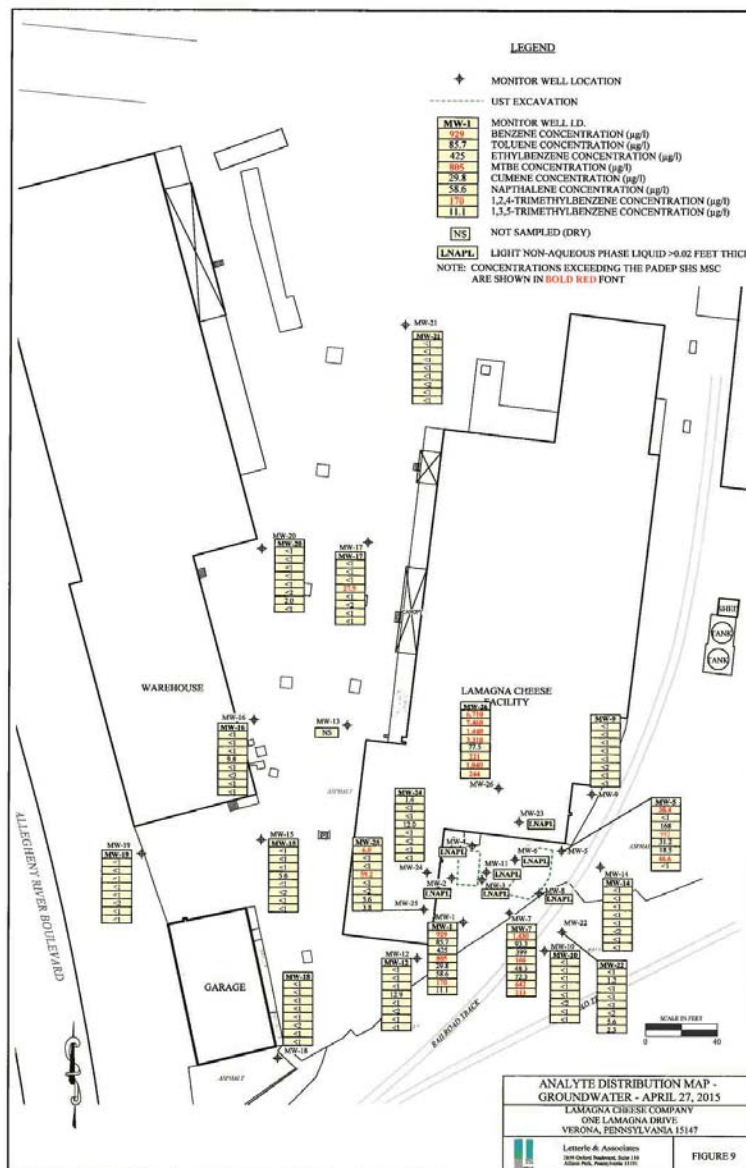


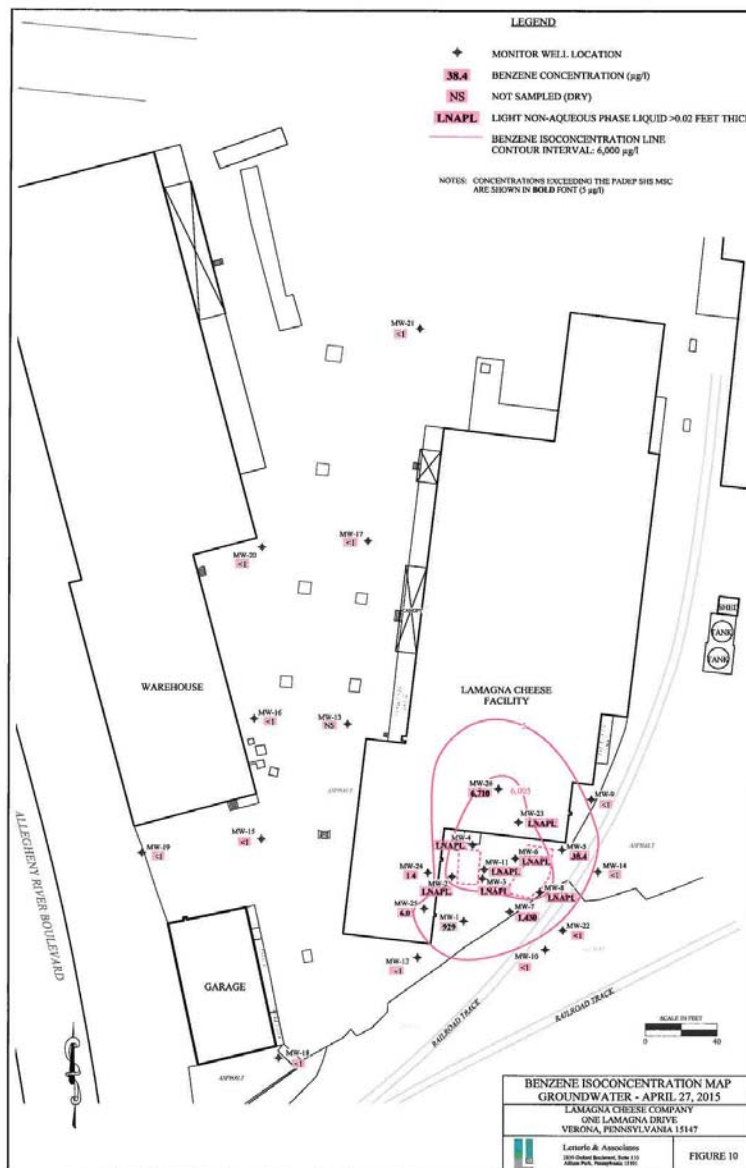


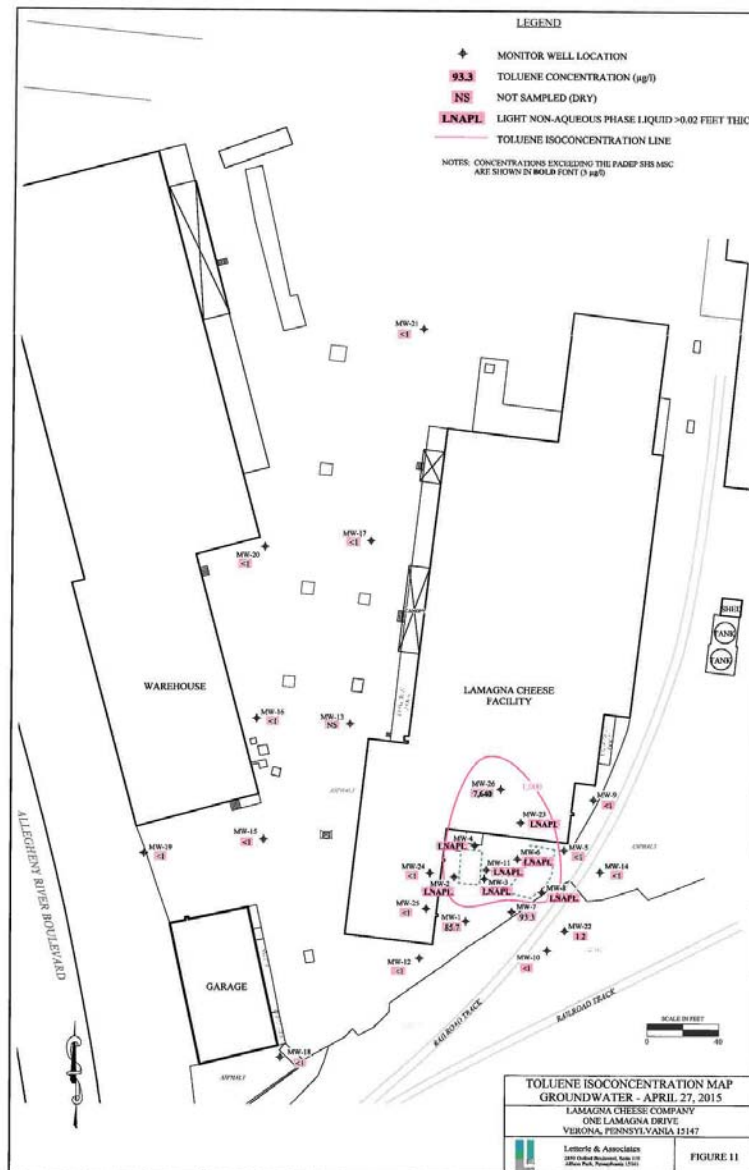


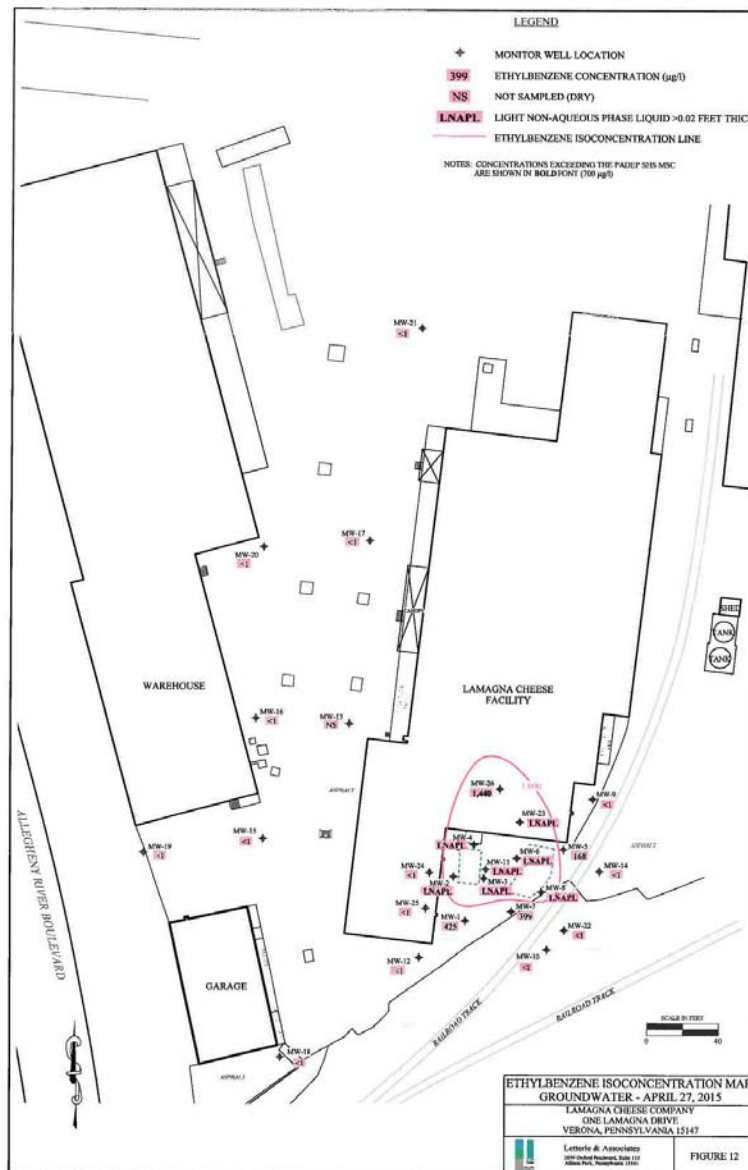


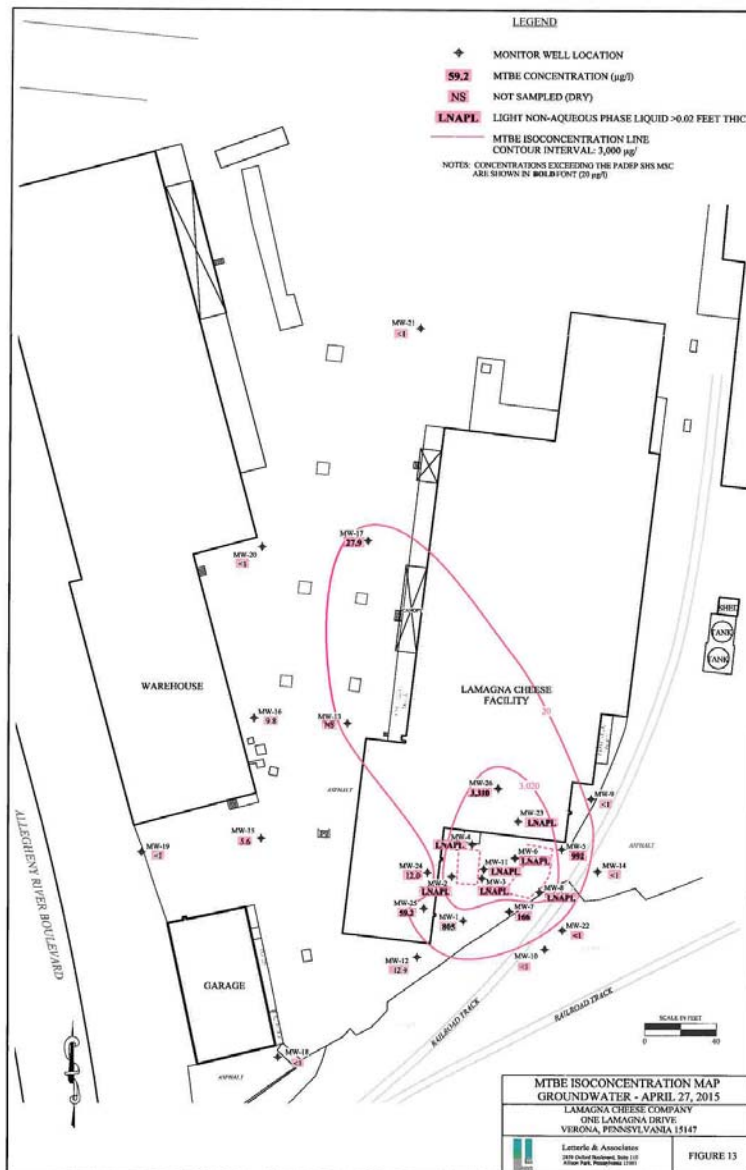


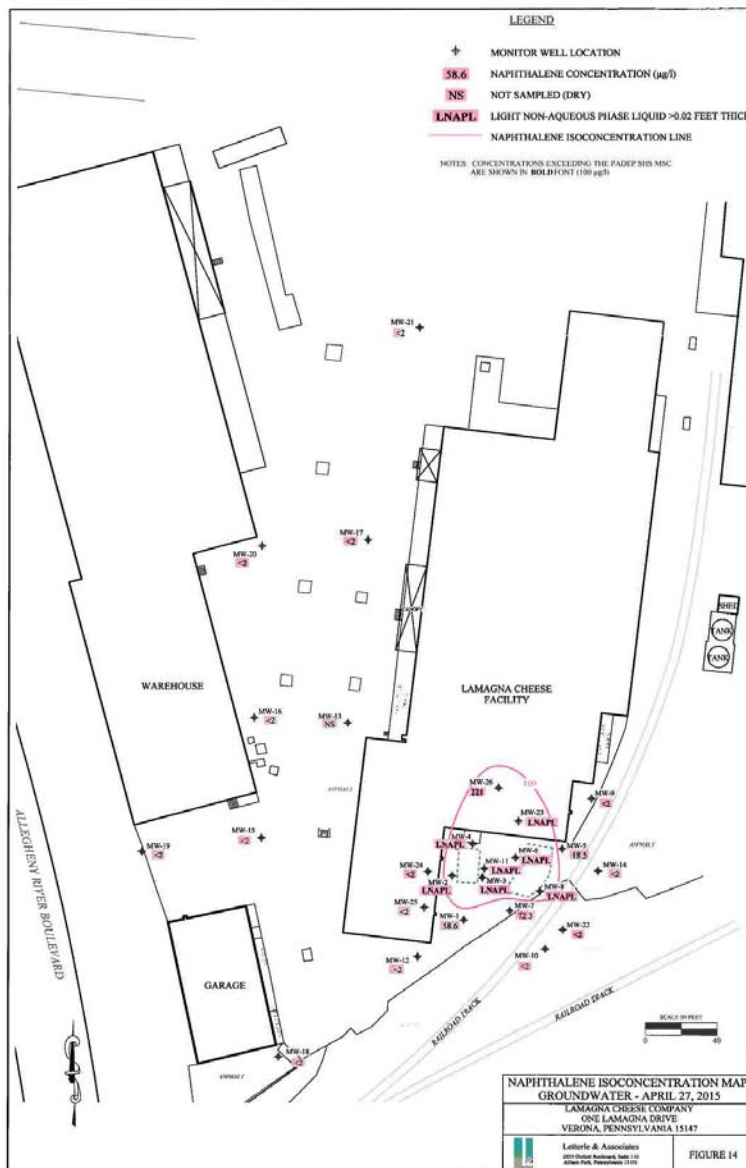


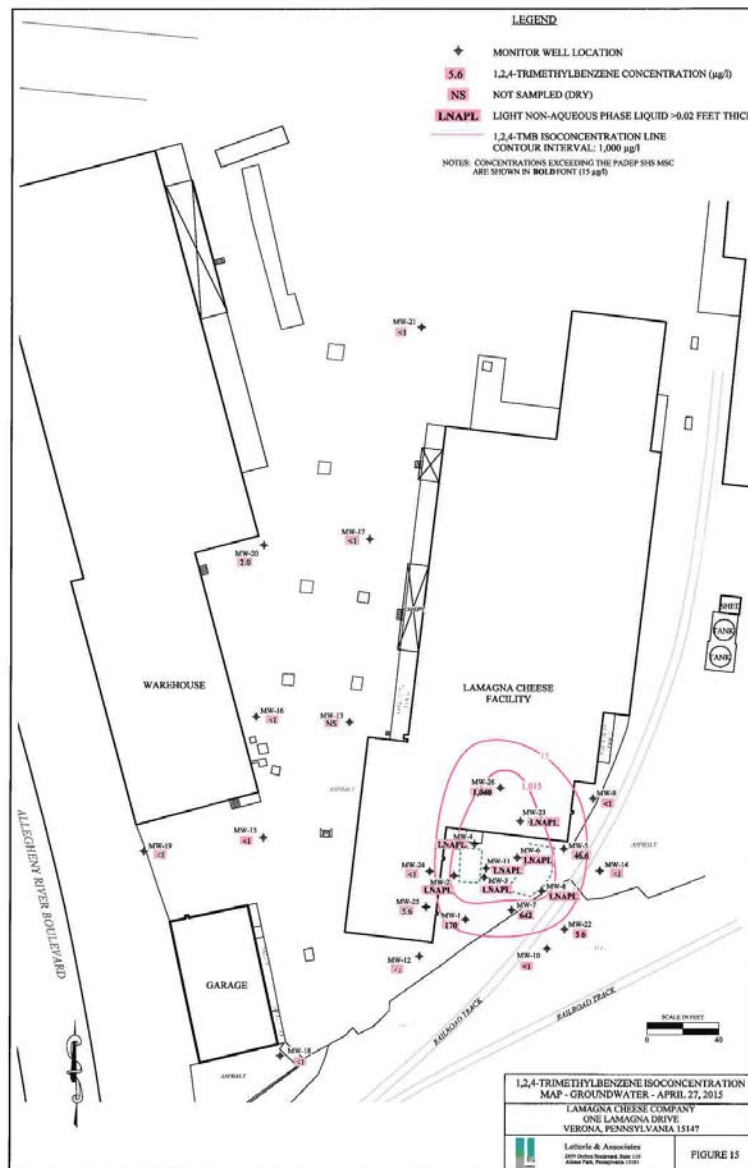


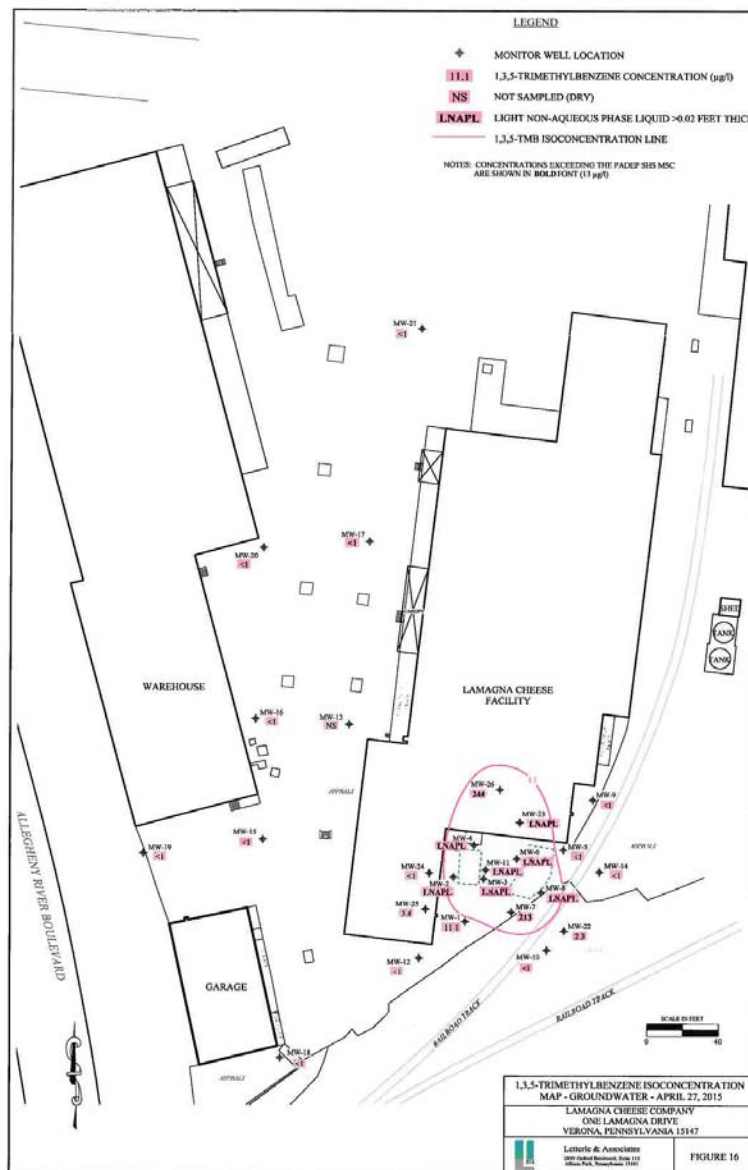


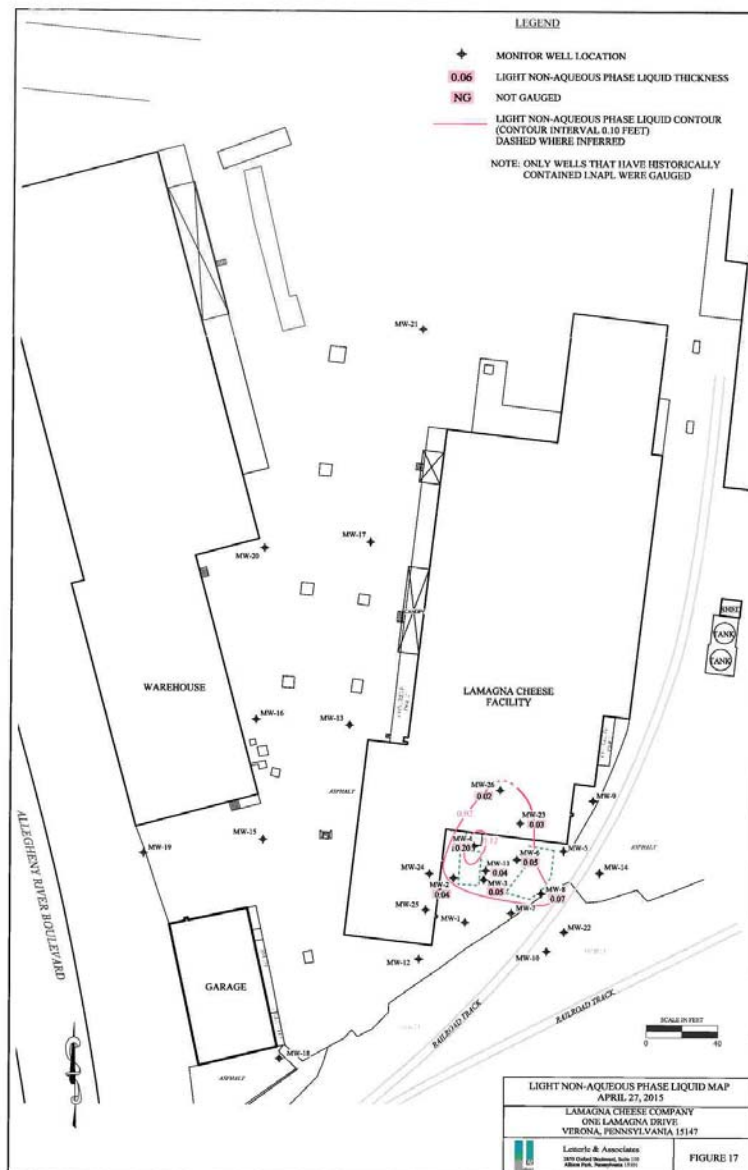












APPENDIX A

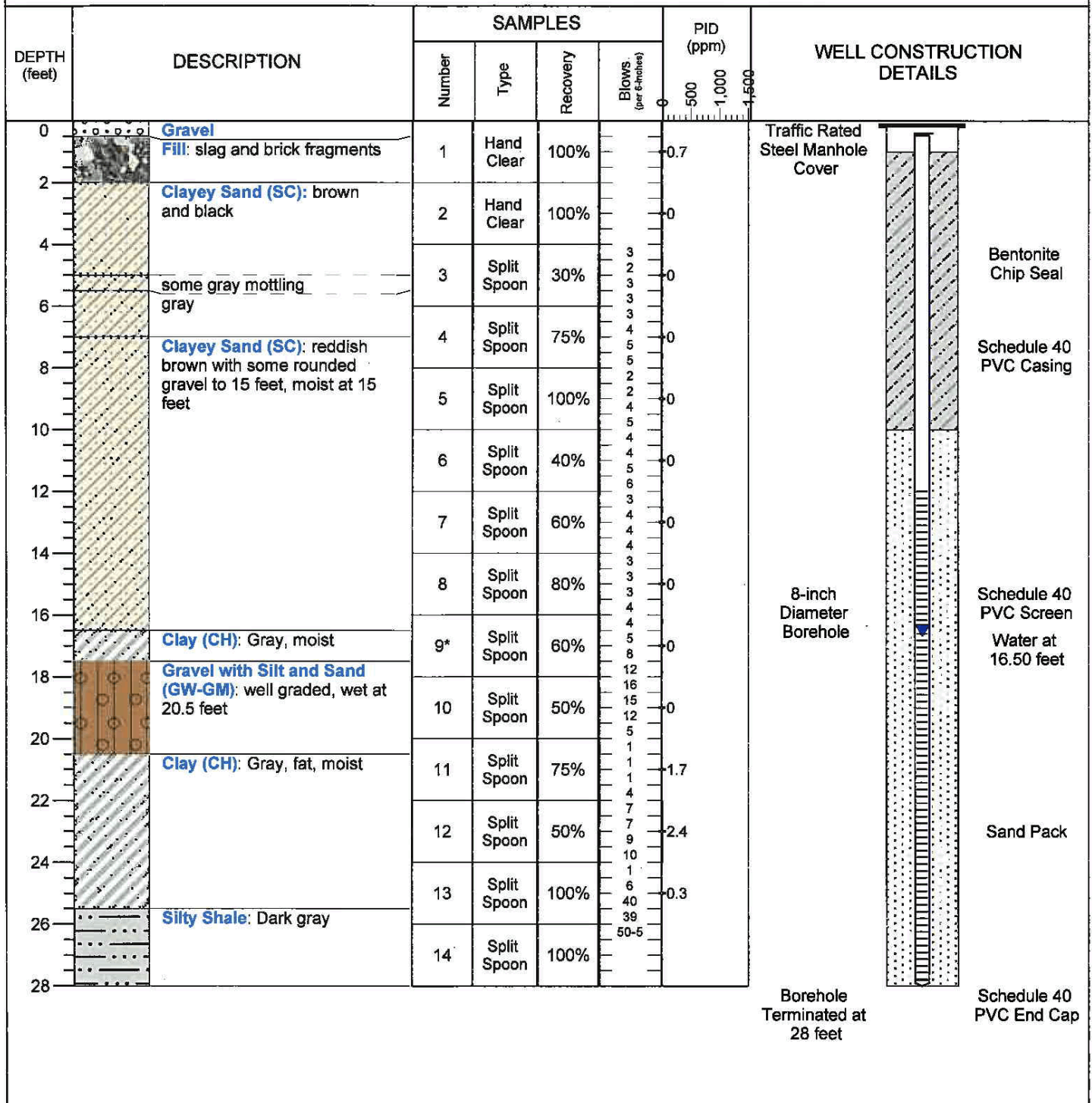
Soil Boring Logs and Monitor Well Construction Details



Letterie & Associates
2859 Oxford Boulevard
Allison Park, Pennsylvania 15101

Project: Lamagna Cheese Company
Location: 1 Lamagna Drive, Verona, PA 15147
Client: Lamagna Cheese Company, Inc
Drill Date: January 30, 2015

Soil Boring / Monitoring Well SB-25/MW-22



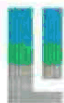
Total Depth: 28 feet
Borehole Diameter: 8-inch
Drill Method: Hollow Stem Auger
Drilled By: Terra Testing, Inc.
Logged By: Andrew Frost

Well Diameter: 2-inch
Casing Length: 12 feet
Screen Length: 16 feet
Screen Slot Size: 0.010-inch

Surface Elevation: 746.78 feet
Casing Elevation: 746.35 feet
Water Level - Static: 16.50 feet
Gauging Date: April 27, 2015

* Sample Submitted for Laboratory Analysis

Sheet: 1 of 1



Letterle & Associates
2859 Oxford Boulevard
Allison Park, Pennsylvania 15101

Project: Lamagna Cheese Company
Location: 1 Lamagna Drive, Verona, PA 15147
Client: Lamagna Cheese Company, Inc
Drill Date: January 30, 2015

Soil Boring
SB-26

DEPTH (feet)	DESCRIPTION	SAMPLES				PID (ppm)	DETAILS
		Number	Type	Recovery	Blows (per 6-inches)		
0	Gravel						
1	Fill	1	Hand Clear	100%		0.0	
2							
3	Clayey Sand (SC)	2	Hand Clear	100%		0.0	
4		3	Hand Clear	100%		0.0	
5							
6	Brown with gray mottling	4	Split Spoon	100%	1	1.7	
7					3		
8		5	Split Spoon	100%	6	0.5	
9					7		
10		6	Split Spoon	100%	4	1.3	
11					5		
12		7	Split Spoon	100%	5	55.0	
13					7		
14	Brown to gray, wet at 16 feet	8*	Split Spoon	100%	4	1,032.0	
15					4		
16		9	Split Spoon	100%	5	105.0	
17					6		Borehole terminated at 17 feet

Total Depth: 17 feet

Drilled By: Terra Testing, Inc.

Surface Elevation: NA

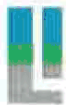
Borehole Diameter: 2.125-inch

Logged By: Andrew Frost

Drill Method: Direct Push

* Sample Submitted for Laboratory Analysis

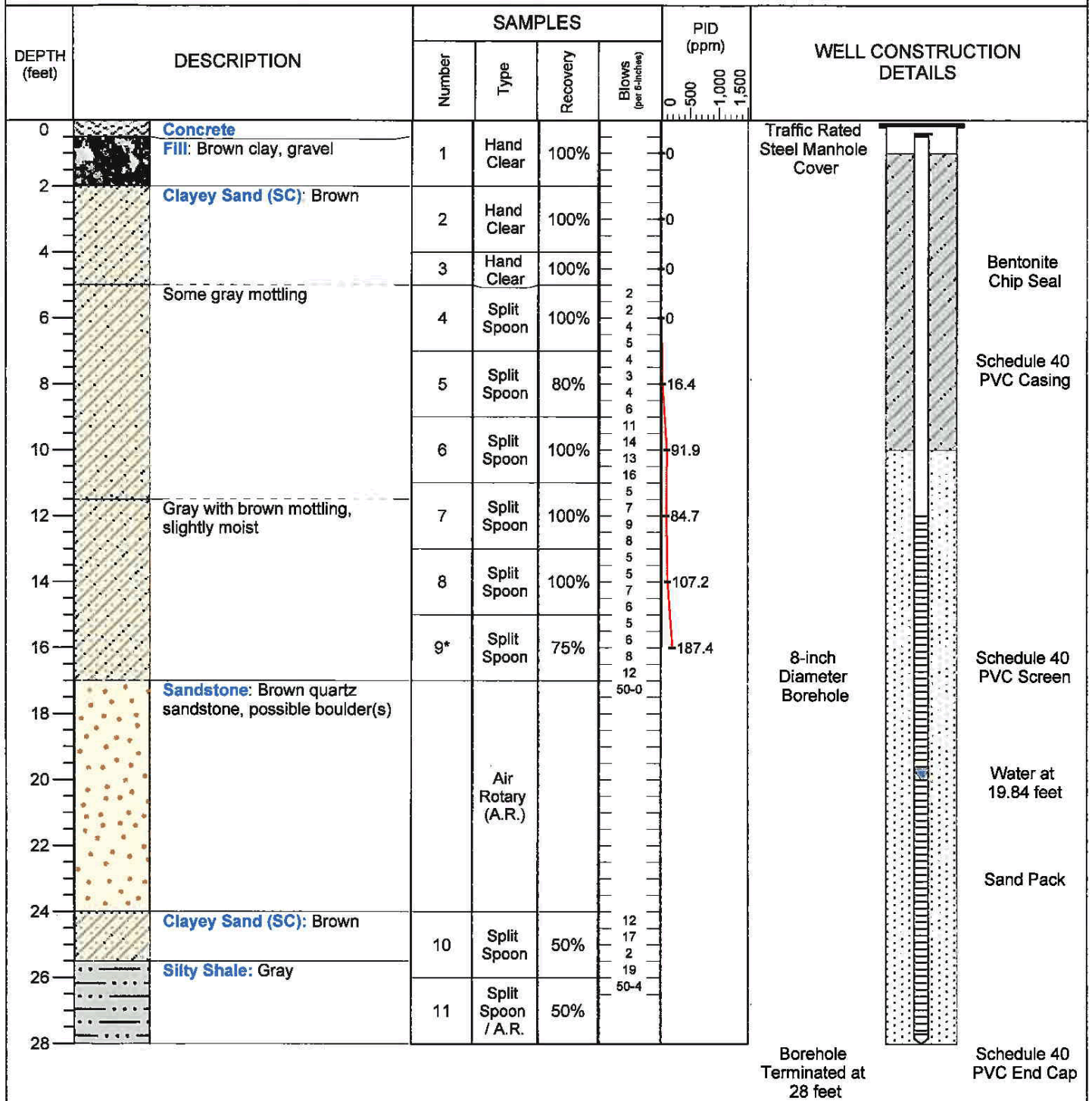
Sheet: 1 of 1



Letterle & Associates
2859 Oxford Boulevard
Allison Park, Pennsylvania 15101

Project: Lamagna Cheese Company
Location: 1 Lamagna Drive, Verona, PA 15147
Client: Lamagna Cheese Company, Inc
Drill Date: January 30 & 31, 2015

Soil Boring / Monitoring Well SB-27/MW-23



Total Depth: 28 feet
Borehole Diameter: 8-inch
Drill Method: Hollow Stem Auger/Air Rotary
Drilled By: Terra Testing, Inc.
Logged By: Matt Sinagra

Well Diameter: 2-inch
Casing Length: 12 feet
Screen Length: 16 feet
Screen Slot Size: 0.010-inch

Surface Elevation: 745.98 feet
Casing Elevation: 745.73 feet
Water Level - Static: 19.84 feet
Gauging Date: April 27, 2015

* Sample Submitted for Laboratory Analysis

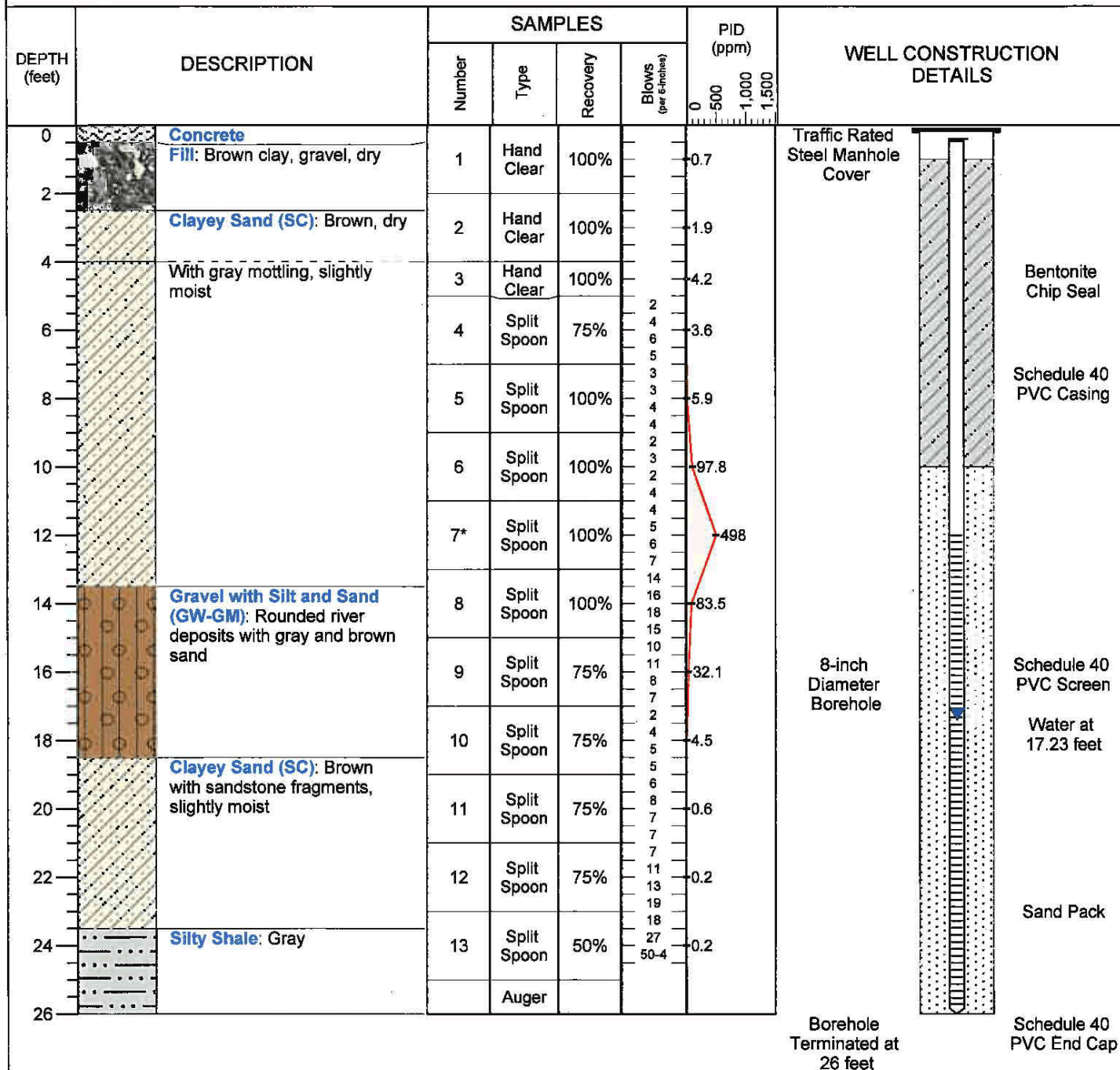
Sheet: 1 of 1



Letterle & Associates
2859 Oxford Boulevard
Allison Park, Pennsylvania 15101

Project: Lamagna Cheese Company
Location: 1 Lamagna Drive, Verona, PA 15147
Client: Lamagna Cheese Company, Inc
Drill Date: January 31, 2015

Soil Boring / Monitoring Well SB-28/MW-24



Total Depth: 26 feet
Borehole Diameter: 8-inch
Drill Method: Hollow Stem Auger
Drilled By: Terra Testing, Inc.
Logged By: Matt Sinagra

Well Diameter: 2-inch
Casing Length: 12 feet
Screen Length: 14 feet
Screen Slot Size: 0.010-inch

Surface Elevation: 744.13 feet
Casing Elevation: 743.49 feet
Water Level - Static: 17.23 feet
Gauging Date: April 27, 2015

* Sample Submitted for Laboratory Analysis

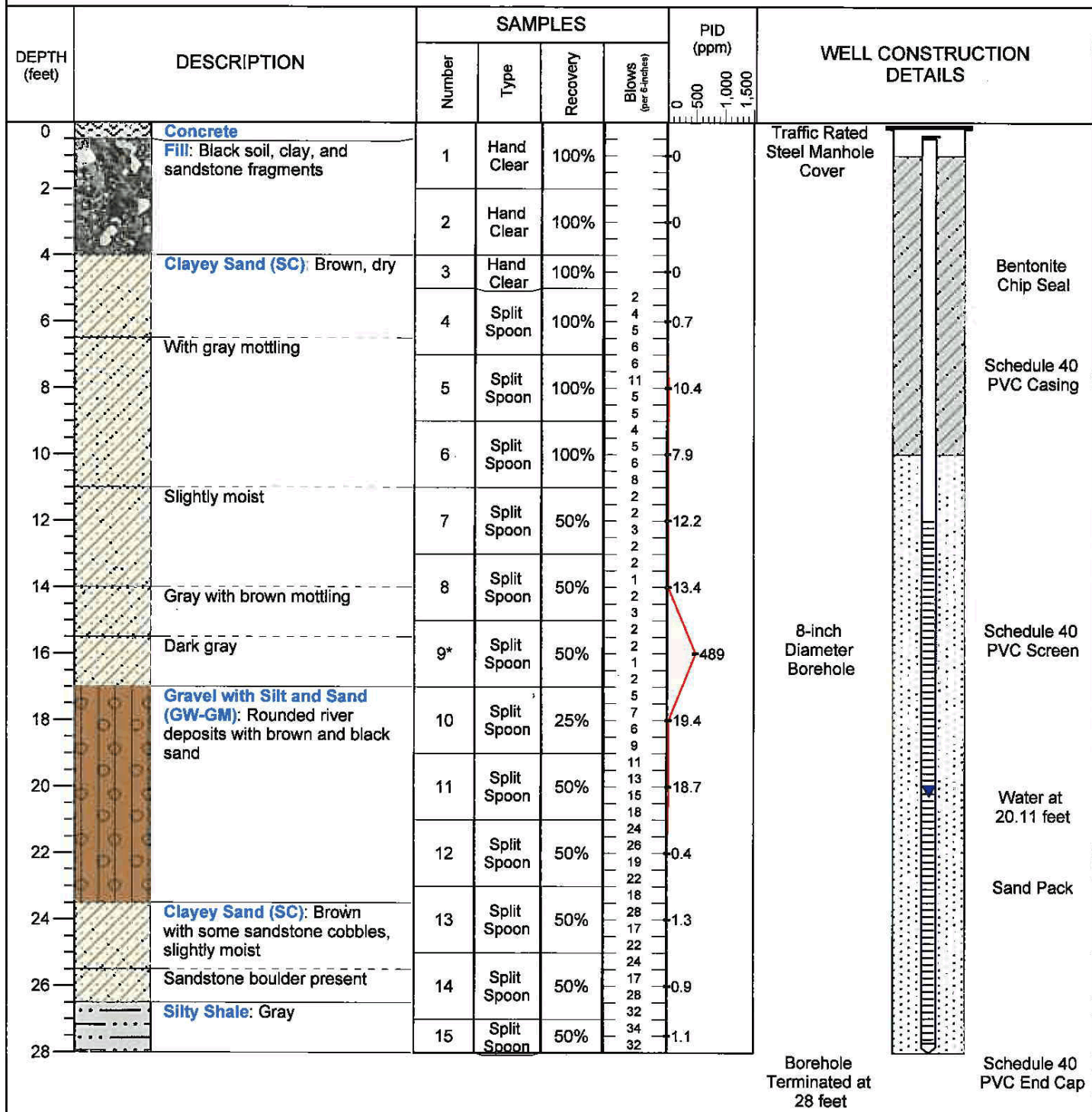
Sheet: 1 of 1



Letterle & Associates
2859 Oxford Boulevard
Allison Park, Pennsylvania 15101

Project: Lamagna Cheese Company
Location: 1 Lamagna Drive, Verona, PA 15147
Client: Lamagna Cheese Company, Inc
Drill Date: February 2, 2015

Soil Boring / Monitoring Well SB-29/MW-25



Total Depth: 28 feet
Borehole Diameter: 8-inch
Drill Method: Hollow Stem Auger
Drilled By: Terra Testing, Inc.
Logged By: Matt Sinagra

Well Diameter: 2-inch
Casing Length: 12 feet
Screen Length: 16 feet
Screen Slot Size: 0.010-inch

Surface Elevation: 747.42 feet
Casing Elevation: 747.23 feet
Water Level - Static: 20.11 feet
Gauging Date: April 27, 2015

* Sample Submitted for Laboratory Analysis

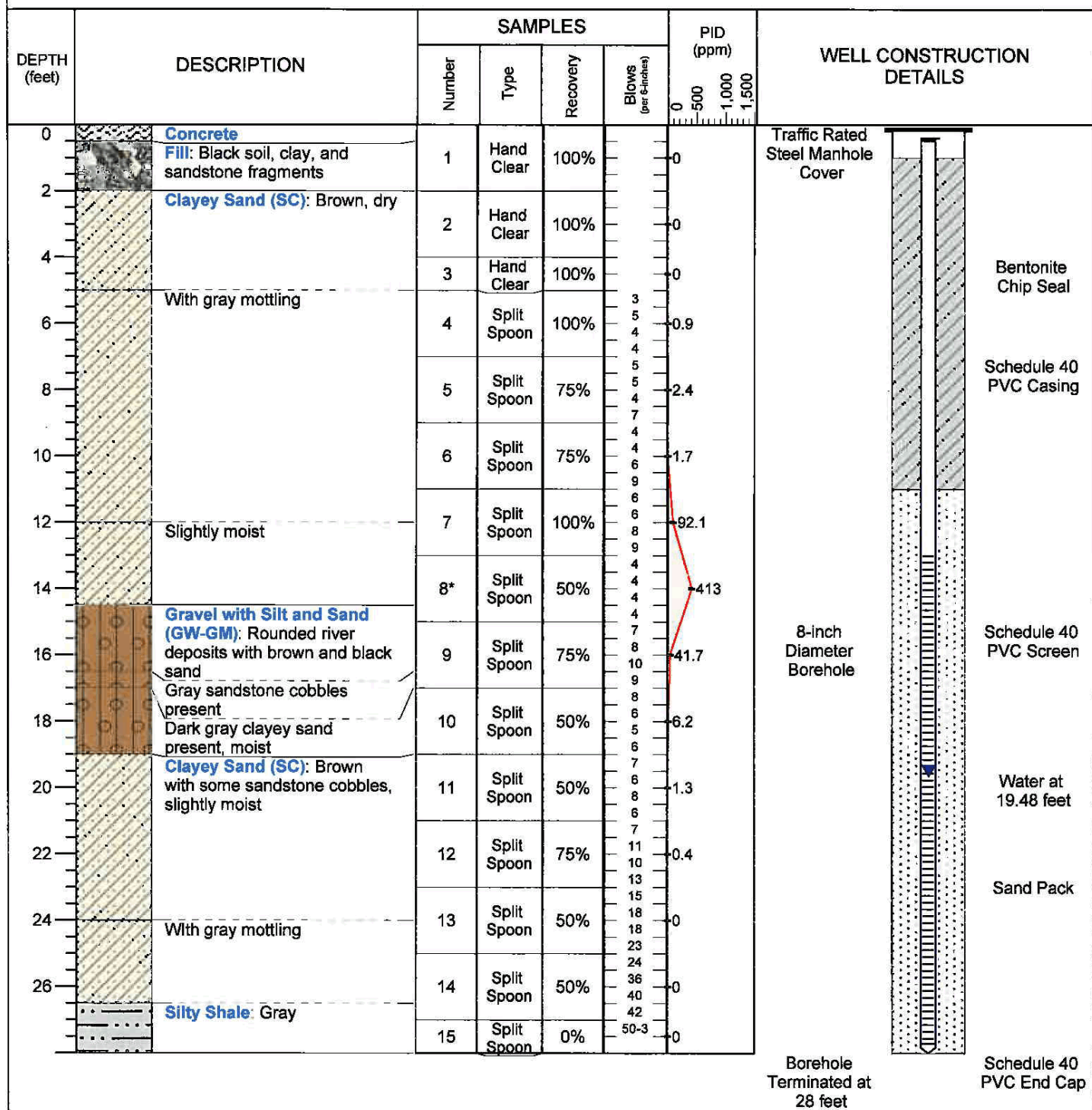
Sheet: 1 of 1



Letterle & Associates
2859 Oxford Boulevard
Allison Park, Pennsylvania 15101

Project: Lamagna Cheese Company
Location: 1 Lamagna Drive, Verona, PA 15147
Client: Lamagna Cheese Company, Inc
Drill Date: March 20, 2015

Soil Boring / Monitoring Well SB-30/MW-26



Total Depth: 28 feet
Borehole Diameter: 8-inch
Drill Method: Hollow Stem Auger
Drilled By: Terra Testing, Inc.
Logged By: Matt Sinagra

Well Diameter: 2-inch
Casing Length: 13 feet
Screen Length: 15 feet
Screen Slot Size: 0.010-inch

Surface Elevation: 745.65 feet
Casing Elevation: 744.93 feet
Water Level - Static: 19.48 feet
Gauging Date: April 27, 2015

* Sample Submitted for Laboratory Analysis

Sheet: 1 of 1



Letterle & Associates
2859 Oxford Boulevard
Allison Park, Pennsylvania 15101

Project: Lamagna Cheese Company
Location: 1 Lamagna Drive, Verona, PA 15147
Client: Lamagna Cheese Company, Inc
Drill Date: July 6, 2015

Soil Boring SB-30A

DEPTH (feet)	DESCRIPTION	SAMPLES				PID (ppm)			DETAILS
		Number	Type	Recovery	Blows (per 6-inches)	0	1,000	2,000	
0	 Gravel	1	Hand Clear	100%		0.0			
1	Fill: Dark gray sandy clay, dry								
2	Clayey Sand (SC): Brown								
3		2	Hand Clear	100%		0.0			
4									
5		3	Hand Clear	100%		0.0			
6									
7		4	Split Spoon	80%	3	0.0			
8									
9									
10		5	Split Spoon	100%	6	0.0			
11									
12									
13		6	Split Spoon	100%	3	0.0			
14									
15									
16		7	Split Spoon	100%	4	0.0			
17									
18									
19		8*	Split Spoon	75%	2	0.0			
20									
21									
22		9	Split Spoon	75%	1	0.0			
23									
24									
25					5				
26									
27									

Borehole terminated at 17 feet

Borehole terminated at 17 feet

Total Depth: 17 feet

Drilled By: Terra Testing, Inc.

Surface Elevation: NA

Borehole Diameter: 2.125-inch

Logged By: Matt Sinagra

Drill Method: Direct Push

* Sample Submitted for Laboratory Analysis

Sheet: 1 of 1



Letterle & Associates
2859 Oxford Boulevard
Allison Park, Pennsylvania 15101

Project: Lamagna Cheese Company
Location: 1 Lamagna Drive, Verona, PA 15147
Client: Lamagna Cheese Company, Inc
Drill Date: July 6, 2015

Soil Boring SB-31

DEPTH (feet)	DESCRIPTION	SAMPLES				PID (ppm)			DETAILS
		Number	Type	Recovery	Blows (per 6-inches)	0	1,000	2,000	
0	Asphalt								
1	Fill: Dark gray sandy clay with slag, brick, and sandstone boulders	1	Hand Clear	100%		0.0			
2									
3	Brown	2	Hand Clear	100%		0.0			
4									
5		3	Hand Clear	100%		0.0			
6	Clayey Sand (SC): Brown with gray sandstone boulder, slightly moist	4	Split Spoon	50%	1	0.4			
7					8				
8	Brown	5	Split Spoon	75%	3	0.5			
9					4				
10		6	Split Spoon	75%	3	0.0			
11					3				
12	Gray mottling present	7	Split Spoon	75%	5	0.0			
13					4				
14		8	Split Spoon	50%	3	0.4			
15					4				
16		9*	Split Spoon	75%	3	0.6			
17					4				
18	Moist				3				
19	Gravel and Clay (GW): Rounded river deposits and sandstone gravel with some clay, saturated	10	Split Spoon	50%	14	0.0			
					23				
					15				
					19				

Borehole terminated at 19 feet

Total Depth: 19 feet

Drilled By: Terra Testing, Inc.

Surface Elevation: NA

Borehole Diameter: 2.125-inch

Logged By: Matt Sinagra

Drill Method: Direct Push

* Sample Submitted for Laboratory Analysis

Sheet: 1 of 1

APPENDIX B

Waste Disposal Receipts



McCutcheon Enterprises, Inc.
250 Park Road
Apollo, PA 15613
(724)568-3623 Fax (724)568-2571
www.completewastemgmt.com

01151214

1. Generator's US EPA ID No. PA 000 33 0		Manifest Document No. 29729		2. Page 1 of 1		PA 000 33 0			
3. Generator's Name and Mailing Address L. S. G. Co. Inc. Company, Inc. 11111111111111111111						B. State Generator's ID 301723			
4. Generator's Phone () 724 568 3623						C. State Trans. ID			
5. Transporter 1 Company Name McCutcheon Enterprises, Inc.						D. Transporter's Phone () 724 568 3623			
6. US EPA ID Number PA 000 33 0						E. State Trans. ID			
7. Transporter 2 Company Name						F. Transporter's Phone ()			
8. US EPA ID Number						G. State Facility's ID			
9. Designated Facility Name and Site Address BFI - Carbon Limonite Mine , 0101 S. Main Street Lewistown, PA 17033						H. Facility's Phone () 717 326 4000			
10. US EPA ID Number									
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM						12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Virgin polystyrene food containers						012 D	400	P	4011
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above			
a. 3076 15 8132						c.			
b.						d.			
15. Special Handling Instructions and Additional Information									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this manifest are true and accurately described above by the proper shipping name, hazard class, and packaging mark and label and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. I hereby certify that the above described materials are hazardous waste as defined by 40 CFR Part 261 or any applicable state law.									
Printed/Typed Name						Signature			
17. Transporter 1 Acknowledgement of Receipt of Materials						Month Day Year			
Printed/Typed Name Joshua McRae						Signature Joshua McRae			
18. Transporter 2 Acknowledgement of Receipt of Materials						Month Day Year			
Printed/Typed Name						Signature			
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name						Signature			
						Month Day Year			

GENERATOR COPY

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number PACESQ	2. Page 1 of 1	3. Emergency Response Phone (724) 568-3623	4. Manifest Tracking Number 012322224 JJK				
5. Generator's Name and Mailing Address Lamagna Cheese Company, Inc. 1 Lamagna Drive Verona, PA 15147 Generator's Phone: (412) 828-6112									
6. Transporter 1 Company Name McCutcheon Enterprises Inc					U.S. EPA ID Number PAD013828847				
7. Transporter 2 Company Name Veolia ES Technical Solutions					U.S. EPA ID Number ALD080631369				
8. Designated Facility Name and Site Address Veolia Es Technical Solutions 4301 Infirmary Road, West Carrollton, OH 45449 Facility's Phone: (937) 859-2212					U.S. EPA ID Number OHD093945293				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
				No.	Type				
	1. UN1993, RQ, Waste Flammable liquids, n.o.s., (Benzene and Gasoline) 3, II, (RQ=10lbs), EROF 128			1	DM	40^{EST}	G	D001	D018
	2. NON DOT REGULATED MATERIAL (Monitoring Well Water)			3	DM	120^{EST}	G	NONI	
	3.								
4.									
14. Special Handling Instructions and Additional Information WIP# 621557 WIP# 625656 JWO0184423 00131916									
15. GENERATOR/SHOFFER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Officer's Printed/Typed Name X Ashton Glass				Signature <i>Ashton Glass</i>		Month Day Year 15 12 15			
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Josh Chedrick				Signature <i>Josh Chedrick</i>		Month Day Year 15 12 15			
Transporter 2 Printed/Typed Name Jonathan Mattheis				Signature <i>Jonathan Mattheis</i>		Month Day Year 05 12 15			
18. Discrepancy									
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection									
Manifest Reference Number: _____									
18b. Alternate Facility (or Generator) U.S. EPA ID Number _____									
Facility's Phone: _____									
18c. Signature of Alternate Facility (or Generator) _____								Month Day Year ____	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. _____		2. _____		3. _____		4. _____			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name _____				Signature _____		Month Day Year ____			

APPENDIX C

Laboratory Analytical Report

February 16, 2015

Mr. Mark Valenty
Letterle & Associates
2859 Oxford Boulevard
Suite 110
Allison Park, PA 15101

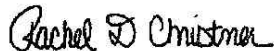
RE: Project: 359 Lamagna Cheese
Pace Project No.: 30139891

Dear Mr. Valenty:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Rachel Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Mr. Brian Blacka, Letterle & Associates, LLC
Mr. Ken Dudash, Letterle & Associates LLC
Mr. Andrew Frost, Letterle & Associates
Ms. Laurie Hall, Letterle & Associates
Mr. George Hunzeker, Letterle & Associates
Mr. Eric Itle, Letterle & Associates
Ms. Stephanie Profeta, Letterle & Associates
Mr. Matt Sinagra, Letterle & Associates
Mr. Chris Stawewski, Letterle & Associates

Ms. Amy Watenpool, Letterle & Associates
Mr. Pete Weir, Letterle & Associates



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 359 Lamagna Cheese
Pace Project No.: 30139891

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ACCLASS DOD-ELAP Accreditation #: ADE-1544

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/TNI Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188

Utah/TNI Certification #: PA014572014-4

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 359 Lamagna Cheese
Pace Project No.: 30139891

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30139891001	SB-25/SS-9/16-18	Solid	01/30/15 13:00	02/02/15 15:10
30139891002	SB-26/SS-8/13-15	Solid	01/30/15 16:30	02/02/15 15:10
30139891003	SB-27/SS-9/15-17	Solid	01/31/15 10:30	02/02/15 15:10
30139891004	SB-28/SS-7/11-13	Solid	01/31/15 14:00	02/02/15 15:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 359 Lamagna Cheese
Pace Project No.: 30139891

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30139891001	SB-25/SS-9/16-18	EPA 8260B	JEW	12	PASI-PA
		ASTM D2974-87	EHW	1	PASI-PA
30139891002	SB-26/SS-8/13-15	EPA 8260B	JEW	12	PASI-PA
		ASTM D2974-87	EHW	1	PASI-PA
30139891003	SB-27/SS-9/15-17	EPA 8260B	JEW	12	PASI-PA
		ASTM D2974-87	EHW	1	PASI-PA
30139891004	SB-28/SS-7/11-13	EPA 8260B	JEW	12	PASI-PA
		ASTM D2974-87	EHW	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 359 Lamagna Cheese
Pace Project No.: 30139891

Sample: SB-25/SS-9/16-18 Lab ID: 30139891001 Collected: 01/30/15 13:00 Received: 02/02/15 15:10 Matrix: Solid

Results reported on a "dry-weight" basis

Comments: • VOA 8260: The sample could not be reanalyzed due to lack of liquid in other low level vial.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260B									
Benzene	ND	ug/kg	5.2	0.81	1		02/10/15 17:22	71-43-2	M5
Ethylbenzene	6.6	ug/kg	5.2	2.7	1		02/10/15 17:22	100-41-4	C8,M5
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1.1	1		02/10/15 17:22	98-82-8	M5
Methyl-tert-butyl ether	ND	ug/kg	5.2	0.74	1		02/10/15 17:22	1634-04-4	M5
Naphthalene	58.9	ug/kg	5.2	2.6	1		02/10/15 17:22	91-20-3	C8,M5
Toluene	ND	ug/kg	5.2	0.67	1		02/10/15 17:22	108-88-3	M5
1,2,4-Trimethylbenzene	23.2	ug/kg	5.2	1.2	1		02/10/15 17:22	95-63-6	C8,M5
1,3,5-Trimethylbenzene	5.7	ug/kg	5.2	1.4	1		02/10/15 17:22	108-67-8	C8,M5
Xylene (Total)	33.4	ug/kg	15.6	3.2	1		02/10/15 17:22	1330-20-7	M5
Surrogates									
Toluene-d8 (S)	99	%	73-124		1		02/10/15 17:22	2037-26-5	M5
4-Bromofluorobenzene (S)	102	%	71-124		1		02/10/15 17:22	460-00-4	M5
1,2-Dichloroethane-d4 (S)	127	%	83-138		1		02/10/15 17:22	17060-07-0	M5
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	21.4	%	0.10	0.10	1		02/11/15 15:28		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 359 Lamagna Cheese
Pace Project No.: 30139891

Sample: SB-26/SS-8/13-15 Lab ID: 30139891002 Collected: 01/30/15 16:30 Received: 02/02/15 15:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260B									
Benzene	1540	ug/kg	274	42.7	50		02/11/15 14:02	71-43-2	M5
Ethylbenzene	27600	ug/kg	2740	1410	500		02/12/15 14:24	100-41-4	M5
Isopropylbenzene (Cumene)	5000	ug/kg	274	58.0	50		02/11/15 14:02	98-82-8	M5
Methyl-tert-butyl ether	ND	ug/kg	274	38.9	50		02/11/15 14:02	1634-04-4	M5
Naphthalene	5700	ug/kg	274	138	50		02/11/15 14:02	91-20-3	M5
Toluene	562	ug/kg	274	35.2	50		02/11/15 14:02	108-88-3	M5
1,2,4-Trimethylbenzene	60900	ug/kg	2740	635	500		02/12/15 14:24	95-63-6	M5
1,3,5-Trimethylbenzene	20100	ug/kg	274	73.9	50		02/11/15 14:02	108-67-8	M5
Xylene (Total)	76500	ug/kg	8210	1670	500		02/12/15 14:24	1330-20-7	M5
Surrogates									
Toluene-d8 (S)	88	%	73-124		50		02/11/15 14:02	2037-26-5	M5
4-Bromofluorobenzene (S)	99	%	71-124		50		02/11/15 14:02	460-00-4	M5
1,2-Dichloroethane-d4 (S)	133	%	83-138		50		02/11/15 14:02	17060-07-0	M5
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	18.9	%	0.10	0.10	1		02/11/15 15:28		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 359 Lamagna Cheese

Pace Project No.: 30139891

Sample: SB-27/SS-9/15-17 Lab ID: 30139891003 Collected: 01/31/15 10:30 Received: 02/02/15 15:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260B									
Benzene	182	ug/kg	4.5	0.71	1		02/11/15 13:08	71-43-2	M5
Ethylbenzene	114	ug/kg	4.5	2.3	1		02/11/15 13:08	100-41-4	M5
Isopropylbenzene (Cumene)	24.9	ug/kg	4.5	0.96	1		02/11/15 13:08	98-82-8	M5
Methyl-tert-butyl ether	28.3	ug/kg	4.5	0.64	1		02/11/15 13:08	1634-04-4	M5
Naphthalene	10.7	ug/kg	4.5	2.3	1		02/11/15 13:08	91-20-3	M5
Toluene	56.4	ug/kg	4.5	0.58	1		02/11/15 13:08	108-88-3	M5
1,2,4-Trimethylbenzene	28.1	ug/kg	4.5	1.1	1		02/11/15 13:08	95-63-6	M5
1,3,5-Trimethylbenzene	19.8	ug/kg	4.5	1.2	1		02/11/15 13:08	108-67-8	M5
Xylene (Total)	116	ug/kg	13.6	2.8	1		02/11/15 13:08	1330-20-7	M5
Surrogates									
Toluene-d8 (S)	100	%	73-124		1		02/11/15 13:08	2037-26-5	M5
4-Bromofluorobenzene (S)	107	%	71-124		1		02/11/15 13:08	460-00-4	M5
1,2-Dichloroethane-d4 (S)	113	%	83-138		1		02/11/15 13:08	17060-07-0	M5
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	17.7	%	0.10	0.10	1		02/11/15 15:29		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 359 Lamagna Cheese

Pace Project No.: 30139891

Sample: SB-28/SS-7/11-13 Lab ID: 30139891004 Collected: 01/31/15 14:00 Received: 02/02/15 15:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260B									
Benzene	834	ug/kg	243	37.8	50		02/11/15 13:35	71-43-2	M5
Ethylbenzene	278	ug/kg	4.7	2.4	1		02/10/15 18:42	100-41-4	M5
Isopropylbenzene (Cumene)	49.8	ug/kg	4.7	1.0	1		02/10/15 18:42	98-82-8	M5
Methyl-tert-butyl ether	55.6	ug/kg	4.7	0.67	1		02/10/15 18:42	1634-04-4	M5
Naphthalene	82.2	ug/kg	4.7	2.4	1		02/10/15 18:42	91-20-3	M5
Toluene	15.5	ug/kg	4.7	0.61	1		02/10/15 18:42	108-88-3	M5
1,2,4-Trimethylbenzene	266	ug/kg	4.7	1.1	1		02/10/15 18:42	95-63-6	M5
1,3,5-Trimethylbenzene	129	ug/kg	4.7	1.3	1		02/10/15 18:42	108-67-8	M5
Xylene (Total)	747	ug/kg	14.1	2.9	1		02/10/15 18:42	1330-20-7	M5
Surrogates									
Toluene-d8 (S)	91	%	73-124		1		02/10/15 18:42	2037-26-5	M5
4-Bromofluorobenzene (S)	107	%	71-124		1		02/10/15 18:42	460-00-4	M5
1,2-Dichloroethane-d4 (S)	121	%	83-138		1		02/10/15 18:42	17060-07-0	M5
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	19.1	%	0.10	0.10	1		02/11/15 15:29		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 359 Lamagna Cheese

Pace Project No.: 30139891

QC Batch: MSV/22469

Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B

Analysis Description: 8260 MSV UST-SOIL

Associated Lab Samples: 30139891001, 30139891004

METHOD BLANK: 852755

Matrix: Solid

Associated Lab Samples: 30139891001, 30139891004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	02/10/15 12:55	M5
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	02/10/15 12:55	M5
Benzene	ug/kg	ND	5.0	02/10/15 12:55	M5
Ethylbenzene	ug/kg	ND	5.0	02/10/15 12:55	M5
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	02/10/15 12:55	M5
Methyl-tert-butyl ether	ug/kg	ND	5.0	02/10/15 12:55	M5
Naphthalene	ug/kg	ND	5.0	02/10/15 12:55	M5
Toluene	ug/kg	ND	5.0	02/10/15 12:55	M5
Xylene (Total)	ug/kg	ND	15.0	02/10/15 12:55	M5
1,2-Dichloroethane-d4 (S)	%	128	83-138	02/10/15 12:55	M5
4-Bromofluorobenzene (S)	%	98	71-124	02/10/15 12:55	M5
Toluene-d8 (S)	%	96	73-124	02/10/15 12:55	M5

LABORATORY CONTROL SAMPLE: 852756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	20	18.0	90	54-131	M5
1,3,5-Trimethylbenzene	ug/kg	20	18.0	90	54-131	M5
Benzene	ug/kg	20	17.7	88	52-126	M5
Ethylbenzene	ug/kg	20	18.1	90	54-128	M5
Isopropylbenzene (Cumene)	ug/kg	20	17.8	89	58-144	M5
Methyl-tert-butyl ether	ug/kg	20	19.8	99	57-129	M5
Naphthalene	ug/kg	20	15.8	79	36-152	M5
Toluene	ug/kg	20	17.0	85	53-127	M5
Xylene (Total)	ug/kg	60	54.3	90	53-127	M5
1,2-Dichloroethane-d4 (S)	%			131	83-138	M5
4-Bromofluorobenzene (S)	%			94	71-124	M5
Toluene-d8 (S)	%			93	73-124	M5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 359 Lamagna Cheese

Pace Project No.: 30139891

QC Batch: MSV/22482

Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B

Analysis Description: 8260 MSV UST-SOIL

Associated Lab Samples: 30139891002, 30139891003

METHOD BLANK: 853176

Matrix: Solid

Associated Lab Samples: 30139891002, 30139891003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	02/11/15 10:55	M5
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	02/11/15 10:55	M5
Benzene	ug/kg	ND	5.0	02/11/15 10:55	M5
Ethylbenzene	ug/kg	ND	5.0	02/11/15 10:55	M5
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	02/11/15 10:55	M5
Methyl-tert-butyl ether	ug/kg	ND	5.0	02/11/15 10:55	M5
Naphthalene	ug/kg	ND	5.0	02/11/15 10:55	M5
Toluene	ug/kg	ND	5.0	02/11/15 10:55	M5
Xylene (Total)	ug/kg	ND	15.0	02/11/15 10:55	M5
1,2-Dichloroethane-d4 (S)	%	102	83-138	02/11/15 10:55	M5
4-Bromofluorobenzene (S)	%	101	71-124	02/11/15 10:55	M5
Toluene-d8 (S)	%	97	73-124	02/11/15 10:55	M5

LABORATORY CONTROL SAMPLE: 853177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	20	23.4	117	54-131	M5
1,3,5-Trimethylbenzene	ug/kg	20	23.9	120	54-131	M5
Benzene	ug/kg	20	24.0	120	52-126	M5
Ethylbenzene	ug/kg	20	24.3	122	54-128	M5
Isopropylbenzene (Cumene)	ug/kg	20	24.9	125	58-144	M5
Methyl-tert-butyl ether	ug/kg	20	13.2	66	57-129	M5
Naphthalene	ug/kg	20	21.2	106	36-152	M5
Toluene	ug/kg	20	23.1	116	53-127	M5
Xylene (Total)	ug/kg	60	72.1	120	53-127	M5
1,2-Dichloroethane-d4 (S)	%			106	83-138	M5
4-Bromofluorobenzene (S)	%			101	71-124	M5
Toluene-d8 (S)	%			97	73-124	M5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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QUALITY CONTROL DATA

Project: 359 Lamagna Cheese
Pace Project No.: 30139891

QC Batch: PMST/5128 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30139891001, 30139891002, 30139891003, 30139891004

SAMPLE DUPLICATE: 852993

Parameter	Units	30139869001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.4	26.1	1	20	

SAMPLE DUPLICATE: 852994

Parameter	Units	30139845009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.6	10.4	18	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

QUALIFIERS

Project: 359 Lamagna Cheese
Pace Project No.: 30139891

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: MSV/22469

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/22482

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

C8 Result may be biased high due to carryover from previously analyzed sample.

M5 A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 359 Lamagna Cheese
Pace Project No.: 30139891

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30139891001	SB-25/SS-9/16-18	EPA 8260B	MSV/22469		
30139891002	SB-26/SS-8/13-15	EPA 8260B	MSV/22482		
30139891003	SB-27/SS-9/15-17	EPA 8260B	MSV/22482		
30139891004	SB-28/SS-7/11-13	EPA 8260B	MSV/22469		
30139891001	SB-25/SS-9/16-18	ASTM D2974-87	PMST/5128		
30139891002	SB-26/SS-8/13-15	ASTM D2974-87	PMST/5128		
30139891003	SB-27/SS-9/15-17	ASTM D2974-87	PMST/5128		
30139891004	SB-28/SS-7/11-13	ASTM D2974-87	PMST/5128		

REPORT OF LABORATORY ANALYSIS

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

30139891

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 1	
Company: <u>Litton & Associates</u>		Report To: <u>MARK VALENTI</u>		Attention:		1809581	
Address: <u>2559 Oxford Blvd</u>		Copy To:		Company Name:		REGULATORY AGENCY	
<u>Attn: Rick PA 15101</u>		Purchase Order No.:		Address:		☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☒ UST ☐ RCRA ☐ OTHER	
Email To:		Project Name: <u>Lanaya Cheese</u>		Pace Quote Reference:		Site Location: <u>PA</u>	
Phone: <u>412-661-0000</u> Fax:		Project Number: <u>353</u>		Pace Project Manager: <u>Rachel Christine</u>		STATE: <u>PA</u>	
Requested Due Date/TAT: <u>STANDARD</u>				Pace Profile #: <u>520</u>			

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab ID.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₈	Methanol	Other	STEX	MTBE		Naphthalene	C-mono	1,2,4- Tri	1,3,5- Tri																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS			
		<u>SSP</u>		<u>2/2</u>		<u>10:00</u>		<u>Matt Sinagra</u>		<u>2-2-15</u>		<u>10:00</u>					
		<u>Colin Pace</u>		<u>2-2-15</u>		<u>3:10</u>		<u>Colin Pace</u>		<u>2/2/15</u>		<u>1510</u>		<u>4.9 Y N Y</u>			

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on for (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>MATT SINAGRA</u>					
SIGNATURE of SAMPLER: <u>[Signature]</u> DATE Signed (MM/DD/YY): <u>01/31/15</u>					

ORIGINAL

February 17, 2015

Mr. Mark Valenty
Letterle & Associates
2859 Oxford Boulevard
Suite 110
Allison Park, PA 15101

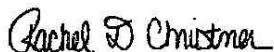
RE: Project: 359 Lamagna Cheese
Pace Project No.: 30140162

Dear Mr. Valenty:

Enclosed are the analytical results for sample(s) received by the laboratory on February 05, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Rachel Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Mr. Brian Blacka, Letterle & Associates, LLC
Mr. Ken Dudash, Letterle & Associates LLC
Mr. Andrew Frost, Letterle & Associates
Ms. Laurie Hall, Letterle & Associates
Mr. George Hunzeker, Letterle & Associates
Mr. Eric Itle, Letterle & Associates
Ms. Stephanie Profeta, Letterle & Associates
Mr. Matt Sinagra, Letterle & Associates
Mr. Chris Stawecki, Letterle & Associates

Ms. Amy Watenpool, Letterle & Associates
Mr. Pete Weir, Letterle & Associates



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 359 Lamagna Cheese

Pace Project No.: 30140162

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ACCLASS DOD-ELAP Accreditation #: ADE-1544

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/TNI Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188

Utah/TNI Certification #: PA014572014-4

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 359 Lamagna Cheese
Pace Project No.: 30140162

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30140162001	SB-29/SS-9/15-17	Solid	02/02/15 13:30	02/05/15 15:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 359 Lamagna Cheese
Pace Project No.: 30140162

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30140162001	SB-29/SS-9/15-17	EPA 8260B	JEW	12	PASI-PA
		ASTM D2974-87	EHW	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 359 Lamagna Cheese

Pace Project No.: 30140162

Sample: SB-29/SS-9/15-17 Lab ID: 30140162001 Collected: 02/02/15 13:30 Received: 02/05/15 15:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260B									
Benzene	ND	ug/kg	236	36.8	50		02/12/15 14:38	71-43-2	M5
Ethylbenzene	3110	ug/kg	236	121	50		02/12/15 14:38	100-41-4	M5
Isopropylbenzene (Cumene)	1210	ug/kg	236	50.0	50		02/12/15 14:38	98-82-8	M5
Methyl-tert-butyl ether	ND	ug/kg	236	33.5	50		02/12/15 14:38	1634-04-4	M5
Naphthalene	1690	ug/kg	236	119	50		02/12/15 14:38	91-20-3	M5
Toluene	ND	ug/kg	236	30.3	50		02/12/15 14:38	108-88-3	M5
1,2,4-Trimethylbenzene	12300	ug/kg	236	54.7	50		02/12/15 14:38	95-63-6	M5
1,3,5-Trimethylbenzene	5600	ug/kg	236	63.7	50		02/12/15 14:38	108-67-8	M5
Xylene (Total)	4080	ug/kg	708	144	50		02/12/15 14:38	1330-20-7	M5
Surrogates									
Toluene-d8 (S)	89 %		73-124		50		02/12/15 14:38	2037-26-5	M5
4-Bromofluorobenzene (S)	98 %		71-124		50		02/12/15 14:38	460-00-4	M5
1,2-Dichloroethane-d4 (S)	100 %		83-138		50		02/12/15 14:38	17060-07-0	M5
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	20.3 %		0.10	0.10	1		02/12/15 13:24		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 359 Lamagna Cheese
Pace Project No.: 30140162

QC Batch:	MSV/22494	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260 MSV UST-SOIL
Associated Lab Samples:	30140162001		

METHOD BLANK: 853856 Matrix: Solid
Associated Lab Samples: 30140162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	02/12/15 13:44	M5
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	02/12/15 13:44	M5
Benzene	ug/kg	ND	5.0	02/12/15 13:44	M5
Ethylbenzene	ug/kg	ND	5.0	02/12/15 13:44	M5
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	02/12/15 13:44	M5
Methyl-tert-butyl ether	ug/kg	ND	5.0	02/12/15 13:44	M5
Naphthalene	ug/kg	ND	5.0	02/12/15 13:44	M5
Toluene	ug/kg	ND	5.0	02/12/15 13:44	M5
Xylene (Total)	ug/kg	ND	15.0	02/12/15 13:44	M5
1,2-Dichloroethane-d4 (S)	%	94	83-138	02/12/15 13:44	M5
4-Bromofluorobenzene (S)	%	98	71-124	02/12/15 13:44	M5
Toluene-d8 (S)	%	95	73-124	02/12/15 13:44	M5

LABORATORY CONTROL SAMPLE: 853857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	20	19.9	100	54-131	M5
1,3,5-Trimethylbenzene	ug/kg	20	19.5	97	54-131	M5
Benzene	ug/kg	20	17.9	90	52-126	M5
Ethylbenzene	ug/kg	20	18.6	93	54-128	M5
Isopropylbenzene (Cumene)	ug/kg	20	19.7	99	58-144	M5
Methyl-tert-butyl ether	ug/kg	20	18.6	93	57-129	M5
Naphthalene	ug/kg	20	17.3	87	36-152	M5
Toluene	ug/kg	20	17.4	87	53-127	M5
Xylene (Total)	ug/kg	60	56.7	94	53-127	M5
1,2-Dichloroethane-d4 (S)	%			99	83-138	M5
4-Bromofluorobenzene (S)	%			107	71-124	M5
Toluene-d8 (S)	%			103	73-124	M5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 359 Lamagna Cheese
Pace Project No.: 30140162

QC Batch: PMST/5132	Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87	Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30140162001	

SAMPLE DUPLICATE: 853726

Parameter	Units	30139958001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.8	18.4	7	20	

SAMPLE DUPLICATE: 853727

Parameter	Units	30140063001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.0	18.9	5	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

QUALIFIERS

Project: 359 Lamagna Cheese
Pace Project No.: 30140162

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: MSV/22494

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M5 A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 359 Lamagna Cheese
Pace Project No.: 30140162

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30140162001	SB-29/SS-9/15-17	EPA 8260B	MSV/22494		
30140162001	SB-29/SS-9/15-17	ASTM D2974-87	PMST/5132		

REPORT OF LABORATORY ANALYSIS

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

30140V02

Section A Required Client Information: Company: <u>Lethe & Associates</u> Address: <u>2500 Old Point Blvd</u> Email To: <u>Roberta P. Lethe</u> Phone: <u>813-941-1501</u> Requested Due Date/Time: <u>5/15/15</u>		Section B Required Project Information: Report To: <u>MARK VIGNETI</u> Copy To: Purchase Order No.: Project Name: <u>Lanigan Cheese</u> Project Number: <u>354</u>		Section C Invoice Information: Attention: Company Name: Address: Pace Order Reference: Pace Project Manager: <u>Rachel Christine</u> Pace Profile #: <u>520</u>		Regulatory Agency: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☒ UST ☐ RCRA ☐ OTHER Site Location: <u>PA</u> STATE:		Page: <u>1</u> of <u>1</u> 1809585	
---	--	---	--	---	--	--	--	---------------------------------------	--

#	ITEM	Section D Required Client Information		Matrix Codes		Matrix I CODE		SAMPLE TYPE (G=GRAB C=COMP)		COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives		Analysis Test		W/N	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.			
		Drinking Water	Waste Water	Product	Soil/Solid	Oil	Wipe	Air	Tissue	Other	DW	WT	WW	P	SL	OL	WP	AR	TS		OT	COMPOSITE START			DATE	TIME	DATE
1																											
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>John Vigneti</u>	<u>2/5/15</u>	<u>1200</u>	<u>CTHWA PUE</u>	<u>2-5-15</u>	<u>12:30</u>	
	<u>John Vigneti</u>	<u>2-5-15</u>	<u>1545</u>	<u>John Vigneti</u>	<u>2-5-15</u>	<u>1545</u>	

Temp In °C: <u>3.3</u> Received on (Y/N): <u>Y</u> Sealed Cooler (Y/N): <u>Y</u> Samples Intact (Y/N): <u>Y</u>	
--	--

SAMPLER NAME AND SIGNATURE: <u>MARK VIGNETI</u> PRINT Name of SAMPLER: <u>MARK VIGNETI</u> SIGNATURE of SAMPLER: <u>[Signature]</u> DATE Signed (MM/DD/YYYY): <u>02/03/15</u>	
--	--

ORIGINAL



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

April 03, 2015

Mr. Mark Valenty
Letterle & Associates
2859 Oxford Boulevard
Suite 110
Allison Park, PA 15101

RE: Project: 359 Lamagna Cheese
Pace Project No.: 30143637

Dear Mr. Valenty:

Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Mr. Brian Blacka, Letterle & Associates, LLC
Mr. Ken Dudash, Letterle & Associates LLC
Mr. Andrew Frost, Letterle & Associates
Ms. Laurie Hall, Letterle & Associates
Mr. George Hunzeker, Letterle & Associates
Mr. Eric Itle, Letterle & Associates
Ms. Stephanie Profeta, Letterle & Associates
Mr. Matt Sinagra, Letterle & Associates
Mr. Chris Stawecki, Letterle & Associates

Ms. Amy Watenpool, Letterle & Associates
Mr. Pete Weir, Letterle & Associates



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: 359 Lamagna Cheese
Pace Project No.: 30143637

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ACCLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 359 Lamagna Cheese
Pace Project No.: 30143637

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30143637001	SB-30/SS-8/13-15	Solid	03/20/15 14:00	03/23/15 15:15

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 359 Lamagna Cheese
Pace Project No.: 30143637

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30143637001	SB-30/SS-8/13-15	EPA 8260B	MAK	11	PASI-PA
		ASTM D2974-87	AMR	1	PASI-PA

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ANALYTICAL RESULTS

Project: 359 Lamagna Cheese
Pace Project No.: 30143637

Sample: SB-30/SS-8/13-15 Lab ID: 30143637001 Collected: 03/20/15 14:00 Received: 03/23/15 15:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260B									
Benzene	14800	ug/kg	251	39.2	50		03/31/15 21:08	71-43-2	
Ethylbenzene	41500	ug/kg	2510	1290	500		04/01/15 21:00	100-41-4	
Isopropylbenzene (Cumene)	7060	ug/kg	251	53.2	50		03/31/15 21:08	98-82-8	
Methyl-tert-butyl ether	2390	ug/kg	251	35.7	50		03/31/15 21:08	1634-04-4	
Naphthalene	8630	ug/kg	251	127	50		03/31/15 21:08	91-20-3	
Toluene	64600	ug/kg	2510	323	500		04/01/15 21:00	108-88-3	
1,2,4-Trimethylbenzene	76700	ug/kg	2510	582	500		04/01/15 21:00	95-63-6	
1,3,5-Trimethylbenzene	25300	ug/kg	2510	678	500		04/01/15 21:00	108-67-8	
Surrogates									
Toluene-d8 (S)	80	%	73-124		50		03/31/15 21:08	2037-26-5	
4-Bromofluorobenzene (S)	98	%	71-124		50		03/31/15 21:08	460-00-4	
1,2-Dichloroethane-d4 (S)	129	%	83-138		50		03/31/15 21:08	17060-07-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	22.9	%	0.10	0.10	1		04/02/15 16:10		

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QUALITY CONTROL DATA

Project: 359 Lamagna Cheese
Pace Project No.: 30143637

QC Batch: MSV/22931 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV UST-SOIL
Associated Lab Samples: 30143637001

METHOD BLANK: 872917

Matrix: Solid

Associated Lab Samples: 30143637001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	03/31/15 12:00	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	03/31/15 12:00	
Benzene	ug/kg	ND	5.0	03/31/15 12:00	
Ethylbenzene	ug/kg	ND	5.0	03/31/15 12:00	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	03/31/15 12:00	
Methyl-tert-butyl ether	ug/kg	ND	5.0	03/31/15 12:00	
Naphthalene	ug/kg	ND	5.0	03/31/15 12:00	
Toluene	ug/kg	ND	5.0	03/31/15 12:00	
1,2-Dichloroethane-d4 (S)	%	101	83-138	03/31/15 12:00	
4-Bromofluorobenzene (S)	%	89	71-124	03/31/15 12:00	
Toluene-d8 (S)	%	96	73-124	03/31/15 12:00	

LABORATORY CONTROL SAMPLE: 872918

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	20	19.9	100	54-131	
1,3,5-Trimethylbenzene	ug/kg	20	19.6	98	54-131	
Benzene	ug/kg	20	20.0	100	52-126	
Ethylbenzene	ug/kg	20	19.1	96	54-128	
Isopropylbenzene (Cumene)	ug/kg	20	19.7	99	58-144	
Methyl-tert-butyl ether	ug/kg	20	19.7	99	57-129	
Naphthalene	ug/kg	20	19.2	96	36-152	
Toluene	ug/kg	20	19.6	98	53-127	
1,2-Dichloroethane-d4 (S)	%			103	83-138	
4-Bromofluorobenzene (S)	%			97	71-124	
Toluene-d8 (S)	%			97	73-124	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 359 Lamagna Cheese
Pace Project No.: 30143637

QC Batch: PMST/5209 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30143637001

SAMPLE DUPLICATE: 874336

Parameter	Units	30143354001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	42.3	42.3	0	20	

SAMPLE DUPLICATE: 874337

Parameter	Units	30143359001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	43.3	39.6	9	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 359 Lamagna Cheese
Pace Project No.: 30143637

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 359 Lamagna Cheese
Pace Project No.: 30143637

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30143637001	SB-30/SS-8/13-15	EPA 8260B	MSV/22931		
30143637001	SB-30/SS-8/13-15	ASTM D2974-87	PMST/5209		

REPORT OF LABORATORY ANALYSIS

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <u>Letterle & Associates</u>	Report To: <u>MARK VALENTY</u>	Attention:		Pages: <u>1</u> of <u>1</u>	1809772
Address: <u>2857 Oxford Blvd</u>	Copy To:	Company Name:			
<u>Antiser Park, PA 15601</u>		Address:			
Email To:	Purchase Order No.:	Pace Quota Reference:			
Phone: _____	Project Name: <u>Lamagna Cheese</u>	Pace Project Manager:	<u>Rachel Christine</u>		
Fax: _____	Project Number: <u>354</u>	Pace Profile #:	<u>520</u>		
Requested Due Date/TAT: <u>STANDARD</u>					

[illegible]

ORIGINAL

SAMPLER NAME AND SIGNATURE

F-ALL-Q-020rev.07, 15-May-2007



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

April 23, 2015

Mr. Mark Valenty
Letterle & Associates
2859 Oxford Boulevard
Suite 110
Allison Park, PA 15101

RE: Project: 359 Lamagna Cheese Factory
Pace Project No.: 30145111

Dear Mr. Valenty:

Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Mr. Brian Blacka, Letterle & Associates, LLC
Mr. Ken Dudash, Letterle & Associates LLC
Mr. Andrew Frost, Letterle & Associates
Ms. Laurie Hall, Letterle & Associates
Mr. George Hunzeker, Letterle & Associates
Mr. Eric Itle, Letterle & Associates
Ms. Stephanie Profeta, Letterle & Associates
Mr. Matt Sinagra, Letterle & Associates
Mr. Chris Stawecki, Letterle & Associates

Ms. Amy Watenpool, Letterle & Associates
Mr. Pete Weir, Letterle & Associates



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 359 Lamagna Cheese Factory
Pace Project No.: 30145111

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ACCLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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SAMPLE SUMMARY

Project: 359 Lamagna Cheese Factory
Pace Project No.: 30145111

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30145111001	MW-22	Water	04/08/15 10:10	04/09/15 13:00
30145111002	MW-24	Water	04/08/15 10:55	04/09/15 13:00
30145111003	MW-25	Water	04/08/15 11:40	04/09/15 13:00
30145111004	MW-26	Water	04/08/15 12:25	04/09/15 13:00
30145111005	Trip Blank	Water	04/08/15 00:01	04/09/15 13:00

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 359 Lamagna Cheese Factory
Pace Project No.: 30145111

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30145111001	MW-22	EPA 8260B	JAS	11	PASI-PA
		SM 2540C	DEH	1	PASI-PA
30145111002	MW-24	EPA 8260B	JAS	11	PASI-PA
		SM 2540C	DEH	1	PASI-PA
30145111003	MW-25	EPA 8260B	JAS	11	PASI-PA
		SM 2540C	DEH	1	PASI-PA
30145111004	MW-26	EPA 8260B	JAS	11	PASI-PA
		SM 2540C	DEH	1	PASI-PA
30145111005	Trip Blank	EPA 8260B	JAS	11	PASI-PA

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ANALYTICAL RESULTS

Project: 359 Lamagna Cheese Factory
Pace Project No.: 30145111

Sample: MW-22		Lab ID: 30145111001		Collected: 04/08/15 10:10		Received: 04/09/15 13:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		04/18/15 08:57	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		04/18/15 08:57	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		04/18/15 08:57	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		04/18/15 08:57	1634-04-4	
Naphthalene	2.3	ug/L	2.0	0.19	1		04/18/15 08:57	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		04/18/15 08:57	108-88-3	
1,2,4-Trimethylbenzene	3.1	ug/L	1.0	0.12	1		04/18/15 08:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		04/18/15 08:57	108-67-8	
Surrogates									
Toluene-d8 (S)	88	%	79-118		1		04/18/15 08:57	2037-26-5	
4-Bromofluorobenzene (S)	104	%	84-113		1		04/18/15 08:57	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	84-124		1		04/18/15 08:57	17060-07-0	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	742	mg/L	10.0	10.0	1		04/13/15 16:45		

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ANALYTICAL RESULTS

Project: 359 Lamagna Cheese Factory

Pace Project No.: 30145111

Sample: MW-24		Lab ID: 30145111002		Collected: 04/08/15 10:55		Received: 04/09/15 13:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		04/18/15 07:53	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		04/18/15 07:53	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		04/18/15 07:53	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		04/18/15 07:53	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		04/18/15 07:53	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		04/18/15 07:53	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.12	1		04/18/15 07:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		04/18/15 07:53	108-67-8	
Surrogates									
Toluene-d8 (S)	88	%	79-118		1		04/18/15 07:53	2037-26-5	
4-Bromofluorobenzene (S)	105	%	84-113		1		04/18/15 07:53	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	84-124		1		04/18/15 07:53	17060-07-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	755	mg/L	10.0	10.0	1		04/13/15 16:45		

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ANALYTICAL RESULTS

Project: 359 Lamagna Cheese Factory
Pace Project No.: 30145111

Sample: MW-25		Lab ID: 30145111003		Collected: 04/08/15 11:40		Received: 04/09/15 13:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260B									
Benzene	10.5	ug/L	1.0	0.16	1		04/18/15 08:31	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		04/18/15 08:31	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		04/18/15 08:31	98-82-8	
Methyl-tert-butyl ether	227	ug/L	1.0	0.17	1		04/18/15 08:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		04/18/15 08:31	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		04/18/15 08:31	108-88-3	
1,2,4-Trimethylbenzene	3.9	ug/L	1.0	0.12	1		04/18/15 08:31	95-63-6	
1,3,5-Trimethylbenzene	3.0	ug/L	1.0	0.12	1		04/18/15 08:31	108-67-8	
Surrogates									
Toluene-d8 (S)	86	%	79-118		1		04/18/15 08:31	2037-26-5	
4-Bromofluorobenzene (S)	97	%	84-113		1		04/18/15 08:31	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	84-124		1		04/18/15 08:31	17060-07-0	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	653	mg/L	10.0	10.0	1		04/13/15 16:45		

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ANALYTICAL RESULTS

Project: 359 Lamagna Cheese Factory

Pace Project No.: 30145111

Sample: MW-26		Lab ID: 30145111004		Collected: 04/08/15 12:25		Received: 04/09/15 13:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260B							
Benzene	1740	ug/L	20.0	3.3	20		04/20/15 14:47	71-43-2	
Ethylbenzene	560	ug/L	20.0	4.6	20		04/20/15 14:47	100-41-4	
Isopropylbenzene (Cumene)	31.3	ug/L	1.0	0.14	1		04/18/15 09:23	98-82-8	
Methyl-tert-butyl ether	1770	ug/L	20.0	3.5	20		04/20/15 14:47	1634-04-4	
Naphthalene	79.2	ug/L	2.0	0.19	1		04/18/15 09:23	91-20-3	
Toluene	1620	ug/L	20.0	2.5	20		04/20/15 14:47	108-88-3	
1,2,4-Trimethylbenzene	390	ug/L	1.0	0.12	1		04/18/15 09:23	95-63-6	
1,3,5-Trimethylbenzene	102	ug/L	1.0	0.12	1		04/18/15 09:23	108-67-8	
Surrogates									
Toluene-d8 (S)	89	%	79-118		1		04/18/15 09:23	2037-26-5	
4-Bromofluorobenzene (S)	103	%	84-113		1		04/18/15 09:23	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	84-124		1		04/18/15 09:23	17060-07-0	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	940	mg/L	10.0	10.0	1		04/13/15 16:45		

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ANALYTICAL RESULTS

Project: 359 Lamagna Cheese Factory
Pace Project No.: 30145111

Sample: Trip Blank		Lab ID: 30145111005		Collected: 04/08/15 00:01		Received: 04/09/15 13:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	0.16	1		04/18/15 01:43	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		04/18/15 01:43	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		04/18/15 01:43	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		04/18/15 01:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		04/18/15 01:43	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		04/18/15 01:43	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.12	1		04/18/15 01:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		04/18/15 01:43	108-67-8	
Surrogates									
Toluene-d8 (S)	91	%	79-118		1		04/18/15 01:43	2037-26-5	
4-Bromofluorobenzene (S)	103	%	84-113		1		04/18/15 01:43	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	84-124		1		04/18/15 01:43	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 359 Lamagna Cheese Factory
Pace Project No.: 30145111

QC Batch: MSV/23144 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 30145111001, 30145111002, 30145111003, 30145111004, 30145111005

METHOD BLANK: 881369 Matrix: Water
Associated Lab Samples: 30145111001, 30145111002, 30145111003, 30145111004, 30145111005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	04/18/15 01:17	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	04/18/15 01:17	
Benzene	ug/L	ND	1.0	04/18/15 01:17	
Ethylbenzene	ug/L	ND	1.0	04/18/15 01:17	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	04/18/15 01:17	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/18/15 01:17	
Naphthalene	ug/L	ND	2.0	04/18/15 01:17	
Toluene	ug/L	ND	1.0	04/18/15 01:17	
1,2-Dichloroethane-d4 (S)	%	92	84-124	04/18/15 01:17	
4-Bromofluorobenzene (S)	%	105	84-113	04/18/15 01:17	
Toluene-d8 (S)	%	92	79-118	04/18/15 01:17	

LABORATORY CONTROL SAMPLE: 881370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	16.8	84	70-123	
1,3,5-Trimethylbenzene	ug/L	20	16.5	83	67-123	
Benzene	ug/L	20	19.9	99	69-123	
Ethylbenzene	ug/L	20	19.8	99	70-123	
Isopropylbenzene (Cumene)	ug/L	20	17.4	87	66-136	
Methyl-tert-butyl ether	ug/L	20	24.6	123	69-133	
Naphthalene	ug/L	20	18.7	94	65-134	
Toluene	ug/L	20	19.7	98	73-123	
1,2-Dichloroethane-d4 (S)	%			93	84-124	
4-Bromofluorobenzene (S)	%			99	84-113	
Toluene-d8 (S)	%			87	79-118	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 881371 881372

Parameter	Units	30145299003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.0	19.4	95	97	70-123	2	30
1,3,5-Trimethylbenzene	ug/L	ND	20	20	18.6	18.6	93	93	67-123	0	30
Benzene	ug/L	ND	20	20	20.4	20.7	102	104	69-123	2	30
Ethylbenzene	ug/L	ND	20	20	20.4	20.6	102	103	70-123	1	30
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.6	19.5	98	98	66-136	1	30
Methyl-tert-butyl ether	ug/L	ND	20	20	15.5	16.7	78	83	69-133	7	30
Naphthalene	ug/L	ND	20	20	19.2	20.3	96	102	65-134	6	30

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 359 Lamagna Cheese Factory
Pace Project No.: 30145111

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 881371 881372												
Parameter	Units	30145299003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Toluene	ug/L	ND	20	20	19.9	20.7	100	103	73-123	4	30	
1,2-Dichloroethane-d4 (S)	%						85	89	84-124			
4-Bromofluorobenzene (S)	%						100	100	84-113			
Toluene-d8 (S)	%						105	101	79-118			

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QUALITY CONTROL DATA

Project: 359 Lamagna Cheese Factory
Pace Project No.: 30145111

QC Batch: WET/27820 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 30145111001, 30145111002, 30145111003, 30145111004

METHOD BLANK: 878114 Matrix: Water
Associated Lab Samples: 30145111001, 30145111002, 30145111003, 30145111004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/13/15 16:45	

LABORATORY CONTROL SAMPLE: 878115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	960	96	85-115	

SAMPLE DUPLICATE: 878116

Parameter	Units	30145125004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	190	188	1	5	

SAMPLE DUPLICATE: 878117

Parameter	Units	30145184001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	490	502	2	5	

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QUALIFIERS

Project: 359 Lamagna Cheese Factory
Pace Project No.: 30145111

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 359 Lamagna Cheese Factory
Pace Project No.: 30145111

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30145111001	MW-22	EPA 8260B	MSV/23144		
30145111002	MW-24	EPA 8260B	MSV/23144		
30145111003	MW-25	EPA 8260B	MSV/23144		
30145111004	MW-26	EPA 8260B	MSV/23144		
30145111005	Trip Blank	EPA 8260B	MSV/23144		
30145111001	MW-22	SM 2540C	WET/27820		
30145111002	MW-24	SM 2540C	WET/27820		
30145111003	MW-25	SM 2540C	WET/27820		
30145111004	MW-26	SM 2540C	WET/27820		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Letterie & Associates	Requester:	Mark Valenty	Analyst:	Tracey Jainnevine
Address:	2859 Oxford Boulevard	Copy To:		Company Name:	Letterie & Associates
City/State:	PA 15101	Project Name:	Lamagne Cheese Factory	Address:	Allison Park, PA 15101
Phone:	412-486-0600	Project #:	359	Pace Quote:	
Requested Due Date:		Pace Project Manager:	Rachel Christner	Pace Profile #:	520
				Regulatory Agency:	PA

ITEM #	MATRIX CODE DIY WWT P SL WV AR OT TS	CODE DIY WWT P SL WV AR OT TS	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES										ANALYSES TEST	Y/N	Residual Chlorine (Y/N)	30145111																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
				START	END			UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Benzene	Trihlybenzene					Toluene	MTBE	Naphthalene	Cumene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	TDS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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RECEIVED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on	Sealed	Cooler	Samples
Bradley Heller	4-8-15	9:35	Bradley Heller	4-8-15	9:35	2.7	Y	Y	Y	Y



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

May 11, 2015

Mr. Mark Valenty
Letterle & Associates
2859 Oxford Boulevard
Suite 110
Allison Park, PA 15101

RE: Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

Dear Mr. Valenty:

Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Mr. Brian Blacka, Letterle & Associates, LLC
Mr. Ken Dudash, Letterle & Associates LLC
Mr. Andrew Frost, Letterle & Associates
Ms. Laurie Hall, Letterle & Associates
Mr. George Hunzeker, Letterle & Associates
Mr. Eric Itle, Letterle & Associates
Ms. Stephanie Profeta, Letterle & Associates
Mr. Matt Sinagra, Letterle & Associates
Mr. Chris Stawecki, Letterle & Associates

Ms. Amy Watenpool, Letterle & Associates
Mr. Pete Weir, Letterle & Associates



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ACCLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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SAMPLE SUMMARY

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30146756001	MW-1	Water	04/27/15 13:10	04/28/15 14:10
30146756002	MW-5	Water	04/27/15 13:40	04/28/15 14:10
30146756003	MW-7	Water	04/27/15 14:15	04/28/15 14:10
30146756004	MW-9	Water	04/27/15 11:10	04/28/15 14:10
30146756005	MW-10	Water	04/27/15 11:35	04/28/15 14:10
30146756006	MW-12	Water	04/27/15 12:40	04/28/15 14:10
30146756007	MW-14	Water	04/27/15 12:10	04/28/15 14:10
30146756008	MW-15	Water	04/27/15 13:15	04/28/15 14:10
30146756009	MW-16	Water	04/27/15 14:20	04/28/15 14:10
30146756010	MW-17	Water	04/27/15 13:50	04/28/15 14:10
30146756011	MW-18	Water	04/27/15 12:40	04/28/15 14:10
30146756012	MW-19	Water	04/27/15 12:10	04/28/15 14:10
30146756013	MW-20	Water	04/27/15 11:35	04/28/15 14:10
30146756014	MW-21	Water	04/27/15 11:00	04/28/15 14:10
30146756015	MW-22	Water	04/27/15 14:40	04/28/15 14:10
30146756016	MW-24	Water	04/27/15 14:50	04/28/15 14:10
30146756017	MW-25	Water	04/27/15 15:20	04/28/15 14:10
30146756018	MW-26	Water	04/27/15 15:10	04/28/15 14:10
30146756019	Duplicate MW-7	Water	04/27/15 14:15	04/28/15 14:10
30146756020	Trip Blank	Water	04/27/15 00:00	04/28/15 14:10

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SAMPLE ANALYTE COUNT

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30146756001	MW-1	EPA 8260B	JAS	11	PASI-PA
30146756002	MW-5	EPA 8260B	JAS	11	PASI-PA
30146756003	MW-7	EPA 8260B	JAS	11	PASI-PA
30146756004	MW-9	EPA 8260B	JAS	11	PASI-PA
30146756005	MW-10	EPA 8260B	JAS	11	PASI-PA
30146756006	MW-12	EPA 8260B	JAS	11	PASI-PA
30146756007	MW-14	EPA 8260B	JAS	11	PASI-PA
30146756008	MW-15	EPA 8260B	JAS	11	PASI-PA
30146756009	MW-16	EPA 8260B	JAS	11	PASI-PA
30146756010	MW-17	EPA 8260B	JAS	11	PASI-PA
30146756011	MW-18	EPA 8260B	JAS	11	PASI-PA
30146756012	MW-19	EPA 8260B	JAS	11	PASI-PA
30146756013	MW-20	EPA 8260B	JAS	11	PASI-PA
30146756014	MW-21	EPA 8260B	JAS	11	PASI-PA
30146756015	MW-22	EPA 8260B	JAS	11	PASI-PA
		SM 2540C	DEH	1	PASI-PA
30146756016	MW-24	EPA 8260B	JAS	11	PASI-PA
		SM 2540C	DEH	1	PASI-PA
30146756017	MW-25	EPA 8260B	JAS	11	PASI-PA
		SM 2540C	DEH	1	PASI-PA
30146756018	MW-26	EPA 8260B	JAS	11	PASI-PA
		SM 2540C	DEH	1	PASI-PA
30146756019	Duplicate MW-7	EPA 8260B	JAS	11	PASI-PA
30146756020	Trip Blank	EPA 8260B	JAS	11	PASI-PA

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

Sample: MW-1 Lab ID: 30146756001 Collected: 04/27/15 13:10 Received: 04/28/15 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV Analytical Method: EPA 8260B									
Benzene	929	ug/L	10.0	1.6	10		05/06/15 02:20	71-43-2	
Ethylbenzene	425	ug/L	10.0	2.3	10		05/06/15 02:20	100-41-4	
Isopropylbenzene (Cumene)	29.8	ug/L	1.0	0.14	1		05/06/15 01:54	98-82-8	
Methyl-tert-butyl ether	805	ug/L	10.0	1.7	10		05/06/15 02:20	1634-04-4	
Naphthalene	58.6	ug/L	2.0	0.19	1		05/06/15 01:54	91-20-3	
Toluene	85.7	ug/L	1.0	0.13	1		05/06/15 01:54	108-88-3	
1,2,4-Trimethylbenzene	170	ug/L	1.0	0.12	1		05/06/15 01:54	95-63-6	
1,3,5-Trimethylbenzene	11.1	ug/L	1.0	0.12	1		05/06/15 01:54	108-67-8	
Surrogates									
Toluene-d8 (S)	96	%	79-118		1		05/06/15 01:54	2037-26-5	
4-Bromofluorobenzene (S)	97	%	84-113		1		05/06/15 01:54	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	84-124		1		05/06/15 01:54	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

Sample: MW-5		Lab ID: 30146756002		Collected: 04/27/15 13:40		Received: 04/28/15 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	38.4	ug/L	1.0	0.16	1		05/06/15 02:47	71-43-2	
Ethylbenzene	168	ug/L	1.0	0.23	1		05/06/15 02:47	100-41-4	
Isopropylbenzene (Cumene)	31.2	ug/L	1.0	0.14	1		05/06/15 02:47	98-82-8	
Methyl-tert-butyl ether	992	ug/L	10.0	1.7	10		05/06/15 03:13	1634-04-4	
Naphthalene	18.5	ug/L	2.0	0.19	1		05/06/15 02:47	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 02:47	108-88-3	
1,2,4-Trimethylbenzene	46.6	ug/L	1.0	0.12	1		05/06/15 02:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 02:47	108-67-8	
Surrogates									
Toluene-d8 (S)	95	%	79-118		1		05/06/15 02:47	2037-26-5	
4-Bromofluorobenzene (S)	98	%	84-113		1		05/06/15 02:47	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	84-124		1		05/06/15 02:47	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory

Pace Project No.: 30146756

Sample: MW-7 Lab ID: 30146756003 Collected: 04/27/15 14:15 Received: 04/28/15 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	1430	ug/L	20.0	3.3	20		05/06/15 07:24	71-43-2	
Ethylbenzene	399	ug/L	1.0	0.23	1		05/06/15 06:57	100-41-4	
Isopropylbenzene (Cumene)	48.3	ug/L	1.0	0.14	1		05/06/15 06:57	98-82-8	
Methyl-tert-butyl ether	166	ug/L	1.0	0.17	1		05/06/15 06:57	1634-04-4	
Naphthalene	72.3	ug/L	2.0	0.19	1		05/06/15 06:57	91-20-3	
Toluene	93.3	ug/L	1.0	0.13	1		05/06/15 06:57	108-88-3	
1,2,4-Trimethylbenzene	642	ug/L	20.0	2.5	20		05/06/15 07:24	95-63-6	
1,3,5-Trimethylbenzene	213	ug/L	1.0	0.12	1		05/06/15 06:57	108-67-8	
Surrogates									
Toluene-d8 (S)	100	%	79-118		1		05/06/15 06:57	2037-26-5	
4-Bromofluorobenzene (S)	93	%	84-113		1		05/06/15 06:57	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	84-124		1		05/06/15 06:57	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

Sample: MW-9		Lab ID: 30146756004		Collected: 04/27/15 11:10		Received: 04/28/15 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		05/06/15 01:28	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 01:28	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 01:28	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		05/06/15 01:28	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 01:28	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 01:28	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 01:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 01:28	108-67-8	
Surrogates									
Toluene-d8 (S)	98	%	79-118		1		05/06/15 01:28	2037-26-5	
4-Bromofluorobenzene (S)	99	%	84-113		1		05/06/15 01:28	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	84-124		1		05/06/15 01:28	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory

Pace Project No.: 30146756

Sample: MW-10 Lab ID: 30146756005 Collected: 04/27/15 11:35 Received: 04/28/15 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		05/06/15 03:40	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 03:40	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 03:40	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		05/06/15 03:40	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 03:40	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 03:40	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 03:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 03:40	108-67-8	
Surrogates									
Toluene-d8 (S)	101	%	79-118		1		05/06/15 03:40	2037-26-5	
4-Bromofluorobenzene (S)	101	%	84-113		1		05/06/15 03:40	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	84-124		1		05/06/15 03:40	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory

Pace Project No.: 30146756

Sample: MW-12 Lab ID: 30146756006 Collected: 04/27/15 12:40 Received: 04/28/15 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		05/06/15 04:06	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 04:06	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 04:06	98-82-8	
Methyl-tert-butyl ether	12.9	ug/L	1.0	0.17	1		05/06/15 04:06	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 04:06	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 04:06	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 04:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 04:06	108-67-8	
Surrogates									
Toluene-d8 (S)	100	%	79-118		1		05/06/15 04:06	2037-26-5	
4-Bromofluorobenzene (S)	104	%	84-113		1		05/06/15 04:06	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	84-124		1		05/06/15 04:06	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory

Pace Project No.: 30146756

Sample: MW-14

Lab ID: 30146756007

Collected: 04/27/15 12:10

Received: 04/28/15 14:10

Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		05/06/15 04:32	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 04:32	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 04:32	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		05/06/15 04:32	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 04:32	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 04:32	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 04:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 04:32	108-67-8	
Surrogates									
Toluene-d8 (S)	94	%	79-118		1		05/06/15 04:32	2037-26-5	
4-Bromofluorobenzene (S)	96	%	84-113		1		05/06/15 04:32	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	84-124		1		05/06/15 04:32	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory

Pace Project No.: 30146756

Sample: MW-15 Lab ID: 30146756008 Collected: 04/27/15 13:15 Received: 04/28/15 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		05/06/15 04:59	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 04:59	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 04:59	98-82-8	
Methyl-tert-butyl ether	5.6	ug/L	1.0	0.17	1		05/06/15 04:59	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 04:59	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 04:59	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 04:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 04:59	108-67-8	
Surrogates									
Toluene-d8 (S)	101	%	79-118		1		05/06/15 04:59	2037-26-5	
4-Bromofluorobenzene (S)	104	%	84-113		1		05/06/15 04:59	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	84-124		1		05/06/15 04:59	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory

Pace Project No.: 30146756

Sample: MW-16

Lab ID: 30146756009

Collected: 04/27/15 14:20

Received: 04/28/15 14:10

Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		05/06/15 05:25	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 05:25	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 05:25	98-82-8	
Methyl-tert-butyl ether	9.8	ug/L	1.0	0.17	1		05/06/15 05:25	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 05:25	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 05:25	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 05:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 05:25	108-67-8	
Surrogates									
Toluene-d8 (S)	99	%	79-118		1		05/06/15 05:25	2037-26-5	
4-Bromofluorobenzene (S)	106	%	84-113		1		05/06/15 05:25	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	84-124		1		05/06/15 05:25	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory

Pace Project No.: 30146756

Sample: MW-17		Lab ID: 30146756010		Collected: 04/27/15 13:50		Received: 04/28/15 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		05/06/15 05:51	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 05:51	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 05:51	98-82-8	
Methyl-tert-butyl ether	27.9	ug/L	1.0	0.17	1		05/06/15 05:51	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 05:51	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 05:51	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 05:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 05:51	108-67-8	
Surrogates									
Toluene-d8 (S)	100	%	79-118		1		05/06/15 05:51	2037-26-5	
4-Bromofluorobenzene (S)	104	%	84-113		1		05/06/15 05:51	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	84-124		1		05/06/15 05:51	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory

Pace Project No.: 30146756

Sample: MW-18		Lab ID: 30146756011		Collected: 04/27/15 12:40		Received: 04/28/15 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		05/06/15 06:18	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 06:18	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 06:18	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		05/06/15 06:18	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 06:18	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 06:18	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 06:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 06:18	108-67-8	
Surrogates									
Toluene-d8 (S)	99	%	79-118		1		05/06/15 06:18	2037-26-5	
4-Bromofluorobenzene (S)	101	%	84-113		1		05/06/15 06:18	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	84-124		1		05/06/15 06:18	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory

Pace Project No.: 30146756

Sample: MW-19 Lab ID: 30146756012 Collected: 04/27/15 12:10 Received: 04/28/15 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		05/06/15 06:44	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 06:44	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 06:44	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		05/06/15 06:44	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 06:44	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 06:44	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 06:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 06:44	108-67-8	
Surrogates									
Toluene-d8 (S)	99	%	79-118		1		05/06/15 06:44	2037-26-5	
4-Bromofluorobenzene (S)	112	%	84-113		1		05/06/15 06:44	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	84-124		1		05/06/15 06:44	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory

Pace Project No.: 30146756

Sample: MW-20 Lab ID: 30146756013 Collected: 04/27/15 11:35 Received: 04/28/15 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		05/06/15 07:10	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 07:10	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 07:10	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		05/06/15 07:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 07:10	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 07:10	108-88-3	
1,2,4-Trimethylbenzene	2.0	ug/L	1.0	0.12	1		05/06/15 07:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 07:10	108-67-8	
Surrogates									
Toluene-d8 (S)	97	%	79-118		1		05/06/15 07:10	2037-26-5	
4-Bromofluorobenzene (S)	96	%	84-113		1		05/06/15 07:10	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	84-124		1		05/06/15 07:10	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory

Pace Project No.: 30146756

Sample: MW-21		Lab ID: 30146756014		Collected: 04/27/15 11:00		Received: 04/28/15 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		05/06/15 07:37	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 07:37	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 07:37	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		05/06/15 07:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 07:37	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 07:37	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 07:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 07:37	108-67-8	
Surrogates									
Toluene-d8 (S)	101	%	79-118		1		05/06/15 07:37	2037-26-5	
4-Bromofluorobenzene (S)	100	%	84-113		1		05/06/15 07:37	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	84-124		1		05/06/15 07:37	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory

Pace Project No.: 30146756

Sample: MW-22		Lab ID: 30146756015		Collected: 04/27/15 14:40		Received: 04/28/15 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		05/06/15 08:15	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 08:15	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 08:15	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		05/06/15 08:15	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 08:15	91-20-3	
Toluene	1.2	ug/L	1.0	0.13	1		05/06/15 08:15	108-88-3	
1,2,4-Trimethylbenzene	5.6	ug/L	1.0	0.12	1		05/06/15 08:15	95-63-6	
1,3,5-Trimethylbenzene	2.3	ug/L	1.0	0.12	1		05/06/15 08:15	108-67-8	
Surrogates									
Toluene-d8 (S)	92	%	79-118		1		05/06/15 08:15	2037-26-5	
4-Bromofluorobenzene (S)	96	%	84-113		1		05/06/15 08:15	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	84-124		1		05/06/15 08:15	17060-07-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	794	mg/L	20.0	20.0	1		04/29/15 17:04		

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

Sample: MW-24		Lab ID: 30146756016		Collected: 04/27/15 14:50		Received: 04/28/15 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	1.4	ug/L	1.0	0.16	1		05/06/15 08:41	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 08:41	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 08:41	98-82-8	
Methyl-tert-butyl ether	12.0	ug/L	1.0	0.17	1		05/06/15 08:41	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 08:41	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 08:41	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 08:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 08:41	108-67-8	
Surrogates									
Toluene-d8 (S)	100	%	79-118		1		05/06/15 08:41	2037-26-5	
4-Bromofluorobenzene (S)	107	%	84-113		1		05/06/15 08:41	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	84-124		1		05/06/15 08:41	17060-07-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	863	mg/L	10.0	10.0	1		04/29/15 17:04		

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

Sample: MW-25		Lab ID: 30146756017		Collected: 04/27/15 15:20		Received: 04/28/15 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	6.0	ug/L	1.0	0.16	1		05/06/15 09:07	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 09:07	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 09:07	98-82-8	
Methyl-tert-butyl ether	59.2	ug/L	1.0	0.17	1		05/06/15 09:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 09:07	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 09:07	108-88-3	
1,2,4-Trimethylbenzene	5.6	ug/L	1.0	0.12	1		05/06/15 09:07	95-63-6	
1,3,5-Trimethylbenzene	3.8	ug/L	1.0	0.12	1		05/06/15 09:07	108-67-8	
Surrogates									
Toluene-d8 (S)	101	%	79-118		1		05/06/15 09:07	2037-26-5	
4-Bromofluorobenzene (S)	99	%	84-113		1		05/06/15 09:07	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	84-124		1		05/06/15 09:07	17060-07-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	838	mg/L	10.0	10.0	1		04/29/15 17:04		

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

Sample: MW-26		Lab ID: 30146756018		Collected: 04/27/15 15:10		Received: 04/28/15 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	6710	ug/L	20.0	3.3	20		05/06/15 10:00	71-43-2	
Ethylbenzene	1440	ug/L	20.0	4.6	20		05/06/15 10:00	100-41-4	
Isopropylbenzene (Cumene)	77.5	ug/L	1.0	0.14	1		05/06/15 09:34	98-82-8	
Methyl-tert-butyl ether	3310	ug/L	20.0	3.5	20		05/06/15 10:00	1634-04-4	
Naphthalene	221	ug/L	2.0	0.19	1		05/06/15 09:34	91-20-3	
Toluene	7460	ug/L	20.0	2.5	20		05/06/15 10:00	108-88-3	
1,2,4-Trimethylbenzene	1040	ug/L	20.0	2.5	20		05/06/15 10:00	95-63-6	
1,3,5-Trimethylbenzene	244	ug/L	1.0	0.12	1		05/06/15 09:34	108-67-8	
Surrogates									
Toluene-d8 (S)	96	%	79-118		1		05/06/15 09:34	2037-26-5	
4-Bromofluorobenzene (S)	100	%	84-113		1		05/06/15 09:34	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	84-124		1		05/06/15 09:34	17060-07-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Total Dissolved Solids	1420	mg/L	10.0	10.0	1		04/29/15 17:04		

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory

Pace Project No.: 30146756

Sample: Duplicate MW-7		Lab ID: 30146756019		Collected: 04/27/15 14:15		Received: 04/28/15 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	1460	ug/L	20.0	3.3	20		05/06/15 08:28	71-43-2	
Ethylbenzene	362	ug/L	1.0	0.23	1		05/06/15 08:02	100-41-4	
Isopropylbenzene (Cumene)	45.2	ug/L	1.0	0.14	1		05/06/15 08:02	98-82-8	
Methyl-tert-butyl ether	159	ug/L	1.0	0.17	1		05/06/15 08:02	1634-04-4	
Naphthalene	68.0	ug/L	2.0	0.19	1		05/06/15 08:02	91-20-3	
Toluene	72.6	ug/L	1.0	0.13	1		05/06/15 08:02	108-88-3	
1,2,4-Trimethylbenzene	674	ug/L	20.0	2.5	20		05/06/15 08:28	95-63-6	
1,3,5-Trimethylbenzene	201	ug/L	1.0	0.12	1		05/06/15 08:02	108-67-8	
Surrogates									
Toluene-d8 (S)	100	%	79-118		1		05/06/15 08:02	2037-26-5	
4-Bromofluorobenzene (S)	89	%	84-113		1		05/06/15 08:02	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	84-124		1		05/06/15 08:02	17060-07-0	

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ANALYTICAL RESULTS

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

Sample: Trip Blank		Lab ID: 30146756020		Collected: 04/27/15 00:00		Received: 04/28/15 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	ND	ug/L	1.0	0.16	1		05/06/15 01:01	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.23	1		05/06/15 01:01	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.14	1		05/06/15 01:01	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.17	1		05/06/15 01:01	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.19	1		05/06/15 01:01	91-20-3	
Toluene	ND	ug/L	1.0	0.13	1		05/06/15 01:01	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 01:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.12	1		05/06/15 01:01	108-67-8	
Surrogates									
Toluene-d8 (S)	104	%	79-118		1		05/06/15 01:01	2037-26-5	
4-Bromofluorobenzene (S)	101	%	84-113		1		05/06/15 01:01	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	84-124		1		05/06/15 01:01	17060-07-0	

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QUALITY CONTROL DATA

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

QC Batch: MSV/23354 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 30146756003, 30146756019

METHOD BLANK: 889345 Matrix: Water
Associated Lab Samples: 30146756003, 30146756019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/06/15 00:22	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/06/15 00:22	
Benzene	ug/L	ND	1.0	05/06/15 00:22	
Ethylbenzene	ug/L	ND	1.0	05/06/15 00:22	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/06/15 00:22	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/06/15 00:22	
Naphthalene	ug/L	ND	2.0	05/06/15 00:22	
Toluene	ug/L	ND	1.0	05/06/15 00:22	
1,2-Dichloroethane-d4 (S)	%	107	84-124	05/06/15 00:22	
4-Bromofluorobenzene (S)	%	99	84-113	05/06/15 00:22	
Toluene-d8 (S)	%	97	79-118	05/06/15 00:22	

LABORATORY CONTROL SAMPLE: 889346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	18.7	94	70-123	
1,3,5-Trimethylbenzene	ug/L	20	18.4	92	67-123	
Benzene	ug/L	20	19.3	97	69-123	
Ethylbenzene	ug/L	20	18.0	90	70-123	
Isopropylbenzene (Cumene)	ug/L	20	19.1	96	66-136	
Methyl-tert-butyl ether	ug/L	20	20.8	104	69-133	
Naphthalene	ug/L	20	21.8	109	65-134	
Toluene	ug/L	20	18.4	92	73-123	
1,2-Dichloroethane-d4 (S)	%			107	84-124	
4-Bromofluorobenzene (S)	%			98	84-113	
Toluene-d8 (S)	%			101	79-118	

MATRIX SPIKE SAMPLE: 889347

Parameter	Units	30146768001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	20	19.3	96	70-123	
1,3,5-Trimethylbenzene	ug/L	ND	20	17.9	90	67-123	
Benzene	ug/L	ND	20	19.4	97	69-123	
Ethylbenzene	ug/L	ND	20	17.2	86	70-123	
Isopropylbenzene (Cumene)	ug/L	ND	20	18.6	93	66-136	
Methyl-tert-butyl ether	ug/L	2.7	20	21.9	96	69-133	
Naphthalene	ug/L	ND	20	18.5	93	65-134	
Toluene	ug/L	ND	20	18.5	92	73-123	

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QUALITY CONTROL DATA

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

MATRIX SPIKE SAMPLE: 889347		30146768001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				106	84-124	
4-Bromofluorobenzene (S)	%				94	84-113	
Toluene-d8 (S)	%				98	79-118	

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QUALITY CONTROL DATA

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

QC Batch: MSV/23355 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 30146756001, 30146756002, 30146756004, 30146756005, 30146756006, 30146756007, 30146756008, 30146756009, 30146756010, 30146756011, 30146756012, 30146756013, 30146756014, 30146756015, 30146756016, 30146756017, 30146756018, 30146756020

METHOD BLANK: 889349 Matrix: Water
Associated Lab Samples: 30146756001, 30146756002, 30146756004, 30146756005, 30146756006, 30146756007, 30146756008, 30146756009, 30146756010, 30146756011, 30146756012, 30146756013, 30146756014, 30146756015, 30146756016, 30146756017, 30146756018, 30146756020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/06/15 00:35	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/06/15 00:35	
Benzene	ug/L	ND	1.0	05/06/15 00:35	
Ethylbenzene	ug/L	ND	1.0	05/06/15 00:35	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/06/15 00:35	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/06/15 00:35	
Naphthalene	ug/L	ND	2.0	05/06/15 00:35	
Toluene	ug/L	ND	1.0	05/06/15 00:35	
1,2-Dichloroethane-d4 (S)	%	108	84-124	05/06/15 00:35	
4-Bromofluorobenzene (S)	%	100	84-113	05/06/15 00:35	
Toluene-d8 (S)	%	96	79-118	05/06/15 00:35	

LABORATORY CONTROL SAMPLE: 889350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.4	97	70-123	
1,3,5-Trimethylbenzene	ug/L	20	18.7	94	67-123	
Benzene	ug/L	20	21.2	106	69-123	
Ethylbenzene	ug/L	20	19.6	98	70-123	
Isopropylbenzene (Cumene)	ug/L	20	19.6	98	66-136	
Methyl-tert-butyl ether	ug/L	20	22.1	111	69-133	
Naphthalene	ug/L	20	21.1	106	65-134	
Toluene	ug/L	20	20.2	101	73-123	
1,2-Dichloroethane-d4 (S)	%			108	84-124	
4-Bromofluorobenzene (S)	%			98	84-113	
Toluene-d8 (S)	%			104	79-118	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 889671 889672

Parameter	Units	30146756004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.7	21.8	108	109	70-123	1	30
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.0	20.0	105	100	67-123	5	30
Benzene	ug/L	ND	20	20	21.5	20.0	107	100	69-123	7	30
Ethylbenzene	ug/L	ND	20	20	19.2	19.1	96	95	70-123	1	30

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QUALITY CONTROL DATA

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 889671 889672												
Parameter	Units	30146756004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.7	21.4	108	107	66-136	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.9	22.7	109	113	69-133	4	30	
Naphthalene	ug/L	ND	20	20	21.6	21.1	108	105	65-134	2	30	
Toluene	ug/L	ND	20	20	21.3	20.5	106	103	73-123	3	30	
1,2-Dichloroethane-d4 (S)	%						111	105	84-124			
4-Bromofluorobenzene (S)	%						102	96	84-113			
Toluene-d8 (S)	%						98	93	79-118			

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QUALITY CONTROL DATA

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

QC Batch: WET/28096 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 30146756015, 30146756016, 30146756017, 30146756018

METHOD BLANK: 887213 Matrix: Water
Associated Lab Samples: 30146756015, 30146756016, 30146756017, 30146756018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/29/15 17:04	

LABORATORY CONTROL SAMPLE: 887214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	997	100	85-115	

SAMPLE DUPLICATE: 887215

Parameter	Units	30146756017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	838	848	1	5	

SAMPLE DUPLICATE: 887216

Parameter	Units	30146848007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	133	138	4	5	

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QUALIFIERS

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 359 Lamanga Cheese Factory
Pace Project No.: 30146756

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30146756001	MW-1	EPA 8260B	MSV/23355		
30146756002	MW-5	EPA 8260B	MSV/23355		
30146756003	MW-7	EPA 8260B	MSV/23354		
30146756004	MW-9	EPA 8260B	MSV/23355		
30146756005	MW-10	EPA 8260B	MSV/23355		
30146756006	MW-12	EPA 8260B	MSV/23355		
30146756007	MW-14	EPA 8260B	MSV/23355		
30146756008	MW-15	EPA 8260B	MSV/23355		
30146756009	MW-16	EPA 8260B	MSV/23355		
30146756010	MW-17	EPA 8260B	MSV/23355		
30146756011	MW-18	EPA 8260B	MSV/23355		
30146756012	MW-19	EPA 8260B	MSV/23355		
30146756013	MW-20	EPA 8260B	MSV/23355		
30146756014	MW-21	EPA 8260B	MSV/23355		
30146756015	MW-22	EPA 8260B	MSV/23355		
30146756016	MW-24	EPA 8260B	MSV/23355		
30146756017	MW-25	EPA 8260B	MSV/23355		
30146756018	MW-26	EPA 8260B	MSV/23355		
30146756019	Duplicate MW-7	EPA 8260B	MSV/23354		
30146756020	Trip Blank	EPA 8260B	MSV/23355		
30146756015	MW-22	SM 2540C	WET/28096		
30146756016	MW-24	SM 2540C	WET/28096		
30146756017	MW-25	SM 2540C	WET/28096		
30146756018	MW-26	SM 2540C	WET/28096		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

30146756

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: L. Martz & Associates Address: 2855 Oxford Blvd. All: San Francisco, CA 94101 Email To: mmartinez@lmmartinez.com Phone: 415 436 0000 Requested Due Date/TAT: Standard	Report To: Mark Volinsky Copy To: Purchase Order No.: Project Name: Lananga Cheese Factory Project Number: 3-29	Attention: Tracy Lammert Company Name: Lananga - Associates Address: Pace Quota Reference: Manager: Pace Profile R:	REGULATORY AGENCY NPDES ☐ GROUND WATER ☐ DRINKING WATER ☒ UST ☐ RCRA ☐ OTHER ☐	Page: 1 of 2 1769333	Site Location: STATE: PA

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE DW WT WW P SL OL WP AR TS OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Y/N	Requested Analysis Filtered (Y/N)												Pace Project No./ Lab ID.
					COMPOSITE START	COMPOSITE END/GRAB			Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other															
1	MW-1	Drinking Water	WT	G	4:27	13:10	428	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	001
2	MW-5	Water	WT	G	4:27	13:40	428	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	002
3	MW-7	Water	WT	G	4:27	14:15	428	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	003
4	MW-9	Product	WT	G	4:27	11:10	428	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	004
5	MW-10	Oil	WT	G	4:27	11:35	428	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	005
6	MW-12	Wipe	WT	G	4:27	12:40	428	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	006
7	MW-14	Air	WT	G	4:27	12:10	428	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	007
8	MW-15	Tissue	WT	G	4:27	13:15	428	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	008
9	MW-16	Other	WT	G	4:27	14:20	428	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	009
10	MW-17		WT	G	4:27	13:50	428	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	010
11	MW-18		WT	G	4:27	12:40	428	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	011
12	MW-19		WT	G	4:27	12:10	428	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on	Custody	Sealed Cooler	Samples Intact
	Day - Pac ent-2415	428	11:00	Pat Perez	4-28-15	11:00	4.3	Y	Y	Y	Y
SAMPLER NAME AND SIGNATURE											
PRINT Name of SAMPLER: Mark Kanner											
SIGNATURE of SAMPLER: [Signature]											
DATE Signed (MM/DD/YYYY): 4/28/15											

Important Note: By signing this form you are accepting Paper's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

July 20, 2015

Mr. Mark Valenty
Letterle & Associates
2859 Oxford Boulevard
Suite 110
Allison Park, PA 15101

RE: Project: 359 Lamagna Cheese
Pace Project No.: 30152644

Dear Mr. Valenty:

Enclosed are the analytical results for sample(s) received by the laboratory on July 07, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rachel Christner
rachel.christner@pacelabs.com
Project Manager

Enclosures

cc: Mr. Brian Blacka, Letterle & Associates, LLC
Mr. Ken Dudash, Letterle & Associates LLC
Mr. Andrew Frost, Letterle & Associates
Ms. Laurie Hall, Letterle & Associates
Mr. George Hunzeker, Letterle & Associates
Mr. Eric Itle, Letterle & Associates
Ms. Stephanie Profeta, Letterle & Associates
Mr. Matt Sinagra, Letterle & Associates
Mr. Chris Stawecki, Letterle & Associates

Ms. Amy Watenpool, Letterle & Associates
Mr. Pete Weir, Letterle & Associates



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CERTIFICATIONS

Project: 359 Lamagna Cheese
Pace Project No.: 30152644

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ACCLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 359 Lamagna Cheese
Pace Project No.: 30152644

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30152644001	SB-30/SS-8/13-15	Solid	07/06/15 10:45	07/07/15 14:00
30152644002	SB-31/SS-9/15-17	Solid	07/06/15 12:30	07/07/15 14:00

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 359 Lamagna Cheese
Pace Project No.: 30152644

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30152644001	SB-30/SS-8/13-15	EPA 8260B	JEW	11	PASI-PA
		ASTM D2974-87	EHW	1	PASI-PA
30152644002	SB-31/SS-9/15-17	EPA 8260B	JEW	11	PASI-PA
		ASTM D2974-87	EHW	1	PASI-PA

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ANALYTICAL RESULTS

Project: 359 Lamagna Cheese
Pace Project No.: 30152644

Sample: SB-30/SS-8/13-15 Lab ID: 30152644001 Collected: 07/06/15 10:45 Received: 07/07/15 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report	MDL	DF	Prepared	Analyzed	CAS No.	Qual
			Limit						
8260B MSV									
Analytical Method: EPA 8260B									
Benzene	ND	ug/kg	4.7	1.3	1		07/09/15 14:40	71-43-2	M5
Ethylbenzene	ND	ug/kg	4.7	0.94	1		07/09/15 14:40	100-41-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1.6	1		07/09/15 14:40	98-82-8	M5
Methyl-tert-butyl ether	ND	ug/kg	4.7	2.3	1		07/09/15 14:40	1634-04-4	M5
Naphthalene	ND	ug/kg	4.7	0.90	1		07/09/15 14:40	91-20-3	M5
Toluene	ND	ug/kg	4.7	1.5	1		07/09/15 14:40	108-88-3	M5
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1.3	1		07/09/15 14:40	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1.6	1		07/09/15 14:40	108-67-8	M5
Surrogates									
Toluene-d8 (S)	105	%	73-124		1		07/09/15 14:40	2037-26-5	M5
4-Bromofluorobenzene (S)	100	%	71-124		1		07/09/15 14:40	460-00-4	M5
1,2-Dichloroethane-d4 (S)	104	%	83-138		1		07/09/15 14:40	17060-07-0	M5
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.4	%	0.10	0.10	1		07/18/15 09:07		D6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 359 Lamagna Cheese
Pace Project No.: 30152644

Sample: SB-31/SS-9/15-17 Lab ID: 30152644002 Collected: 07/06/15 12:30 Received: 07/07/15 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report		MDL	DF	Prepared	Analyzed	CAS No.	Qual
			Limit							
8260B MSV										
Analytical Method: EPA 8260B										
Benzene	ND	ug/kg	4.9	1.3	1			07/09/15 15:07	71-43-2	M5
Ethylbenzene	ND	ug/kg	4.9	0.99	1			07/09/15 15:07	100-41-4	M5
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1.7	1			07/09/15 15:07	98-82-8	M5
Methyl-tert-butyl ether	ND	ug/kg	4.9	2.4	1			07/09/15 15:07	1634-04-4	M5
Naphthalene	ND	ug/kg	4.9	0.95	1			07/09/15 15:07	91-20-3	M5
Toluene	ND	ug/kg	4.9	1.5	1			07/09/15 15:07	108-88-3	M5
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1.4	1			07/09/15 15:07	95-63-6	M5
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1.6	1			07/09/15 15:07	108-67-8	M5
Surrogates										
Toluene-d8 (S)	105	%	73-124			1		07/09/15 15:07	2037-26-5	M5
4-Bromofluorobenzene (S)	99	%	71-124			1		07/09/15 15:07	460-00-4	M5
1,2-Dichloroethane-d4 (S)	104	%	83-138			1		07/09/15 15:07	17060-07-0	M5
Percent Moisture										
Analytical Method: ASTM D2974-87										
Percent Moisture	19.7	%	0.10	0.10	1			07/18/15 09:07		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 359 Lamagna Cheese
Pace Project No.: 30152644

QC Batch: MSV/24128 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV UST-SOIL
Associated Lab Samples: 30152644001, 30152644002

METHOD BLANK: 919936 Matrix: Solid
Associated Lab Samples: 30152644001, 30152644002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	07/09/15 11:34	M5
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	07/09/15 11:34	M5
Benzene	ug/kg	ND	5.0	07/09/15 11:34	M5
Ethylbenzene	ug/kg	ND	5.0	07/09/15 11:34	M5
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	07/09/15 11:34	M5
Methyl-tert-butyl ether	ug/kg	ND	5.0	07/09/15 11:34	M5
Naphthalene	ug/kg	ND	5.0	07/09/15 11:34	M5
Toluene	ug/kg	ND	5.0	07/09/15 11:34	M5
1,2-Dichloroethane-d4 (S)	%	96	83-138	07/09/15 11:34	M5
4-Bromofluorobenzene (S)	%	98	71-124	07/09/15 11:34	M5
Toluene-d8 (S)	%	106	73-124	07/09/15 11:34	M5

LABORATORY CONTROL SAMPLE: 919937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	20	22.5	113	54-131	M5
1,3,5-Trimethylbenzene	ug/kg	20	22.6	113	54-131	M5
Benzene	ug/kg	20	19.1	95	52-126	M5
Ethylbenzene	ug/kg	20	22.0	110	54-128	M5
Isopropylbenzene (Cumene)	ug/kg	20	22.4	112	58-144	M5
Methyl-tert-butyl ether	ug/kg	20	19.7	98	57-129	M5
Naphthalene	ug/kg	20	20.9	104	36-152	M5
Toluene	ug/kg	20	21.2	106	53-127	M5
1,2-Dichloroethane-d4 (S)	%			89	83-138	M5
4-Bromofluorobenzene (S)	%			101	71-124	M5
Toluene-d8 (S)	%			107	73-124	M5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 359 Lamagna Cheese
Pace Project No.: 30152644

QC Batch: PMST/5472 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30152644001, 30152644002

SAMPLE DUPLICATE: 924421

Parameter	Units	30152644001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.4	23.3	29	20	D6

SAMPLE DUPLICATE: 924422

Parameter	Units	30152644002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.7	19.7	0	20	

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QUALIFIERS

Project: 359 Lamagna Cheese
Pace Project No.: 30152644

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: MSV/24128

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
M5 A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 359 Lamagna Cheese

Pace Project No.: 30152644

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30152644001	SB-30/SS-8/13-15	EPA 8260B	MSV/24128		
30152644002	SB-31/SS-9/15-17	EPA 8260B	MSV/24128		
30152644001	SB-30/SS-8/13-15	ASTM D2974-87	PMST/5472		
30152644002	SB-31/SS-9/15-17	ASTM D2974-87	PMST/5472		

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