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**COMMONWEALTH EDISON COMPANY**

**PHASE II ENVIRONMENTAL SITE ASSESSMENT**

**Powerton Generating Station  
Route 29 & Mantino Road  
Pekin, Illinois**

**ENSR**

**Consulting \* Engineering \* Remediation**

**December 1998**

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**Powerton Generating Station  
Route 29 & Mantino Road  
Pekin, Illinois**

**December 7, 1998**

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## EXECUTIVE SUMMARY

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This report presents the results of the Phase II Environmental Site Assessment (Phase II ESA) conducted by ENSR Corporation (ENSR) in October 1998 at the Commonwealth Edison Company (ComEd) Powerton Generating Station, located at Route 29 & Mantino Road in Pekin, Illinois. Phase II ESA activities consisted of advancement of soil borings, installation of monitoring wells, and collection of surface and subsurface soil, sediment, and groundwater samples. The purpose of the Phase II ESA was to investigate the potential presence of contamination in the areas of environmental concern identified in the Phase I Environmental Site Assessment (Phase I ESA).

Based on the results of the Phase I ESA, 19 potential areas of concern were identified for further investigation. These areas of concern are identified in **Section 2.0**. Each of these areas of concern were investigated during the Phase II ESA activities. Twenty-eight soil borings were advanced and 6 monitoring wells were installed. Soil samples were collected from the borings and groundwater samples were collected from the monitoring wells. In addition, 22 surface soil samples and 12 sediment samples were collected at the facility.

These samples were submitted for analysis of benzene, toluene, ethyl benzene, and total xylenes (BTEX) using EPA Method 8260; polynuclear aromatic hydrocarbons (PNAs) using EPA Method 8310; polychlorinated biphenyls (PCBs) using EPA Method 8081; Resource Conservation and Recovery Act (RCRA) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) using EPA Method series 6000 and 7000; and pH using EPA Method 9045.

In addition, the surface soil samples and sediment samples were also submitted for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015. Water quality field parameters, consisting of pH, specific conductivity, and temperature, were also recorded from the groundwater samples collected.

PNA constituents were detected above the Illinois Environmental Protection Agency (IEPA) cleanup objectives primarily in the surface soil samples collected at the facility. These surface soil samples were collected directly from a "stained" location in the identified potential areas of concern. Therefore, it was determined that the impact from these PNA constituents is relatively localized. However, PNA constituents were detected in the soil sample collected from B-5 at approximately 4 feet below grade.

Arsenic was detected above the IEPA cleanup objective of 3 milligrams per kilogram (mg/kg) in samples collected throughout the facility. However, the majority of concentrations of arsenic are within the range of arsenic detected by the EPA during a state wide soil survey in 1992. Arsenic was detected at concentrations greater than the background range in 6 locations at the facility. These locations are at the transformers located on the north side of the western portion of the main building, the Wastewater Treatment Plant, the materials storage area located south of the main building, the area west of the former Car Dumper, the ash/slag disposal area south of the Wastewater Treatment Plant, and the Coal Handling Tractor Repair Building.

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In addition, lead was detected above the IEPA cleanup objective of 400 mg/kg in the samples collected from the transformers located on the north and south side of the western portion of the main building.

PCBs were detected above the IEPA cleanup objective of 1 mg/kg in samples collected adjacent to the former Switch Yard and the turbine oil aboveground storage tank (AST) located in the eastern portion of the main building. The PCBs were only detected in the first 2 feet of soil.

It should be noted that TPH was detected throughout the site. Although a cleanup objective has not been established by the IEPA, TPH was detected at elevated concentrations (greater than 1,000 mg/kg) and would indicate impact by petroleum hydrocarbon compounds.

Based on the relatively low volatility of the constituents of concern detected above the IEPA cleanup objectives, the soil inhalation exposure pathway is not a likely contaminant exposure pathway. In addition, due to the fact that no constituents of concern were detected at concentrations above the IEPA cleanup objectives in the groundwater samples collected, the groundwater ingestion is not a potential contaminant exposure pathway. However, the soil ingestion pathway is a potential exposure pathway during construction activities. Therefore, this pathway would need to allow for protection/prevention for the construction worker scenario.

Based on the current land use (industrial) and site conditions (analytical results and soil types), it is judged that the potential for human exposure to the constituents of concern from this facility is low. It should be noted that there is no requirement under Illinois environmental law to further investigate or remediate this property.

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## 1.0 INTRODUCTION

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### 1.1 General

ENSR Corporation (ENSR) was retained by Commonwealth Edison Company (ComEd) to conduct Phase II Environmental Site Assessment (Phase II ESA) activities on a "limited" portion of the 1,710 acre Powerton Generating Station, located at Route 29 & Mantino Road in Pekin, Illinois (Figure 1, Site Location Map).

The scope of the Phase II ESA activities were based on the preliminary results of the Phase I Environmental Site Assessment (Phase I ESA), with concurrence between ENSR and ComEd. Phase II ESA activities were conducted from October 5 to November 3, 1998, and included advancement of soil borings, installation of monitoring wells, and collection of surface and subsurface soil, sediment, and groundwater samples. Figure 2 illustrates the layout of the facility.

### 1.2 Objectives and Scope

The purpose of the Phase II ESA was to investigate the potential presence of contamination in the areas of environmental concern identified in the Phase I ESA. The Phase II ESA adequately assessed the surface and/or subsurface conditions in the locations where sampling was conducted. The Phase II ESA is a tool for developing a conceptual site model to identify the presence and nature of potential contamination, describe potential contaminant migration pathways, and define potential exposure pathways in sampled areas. Based upon this and the information gathered during the Phase II ESA, and using the Illinois Environmental Protection Agency (IEPA) Tiered Approach to Cleanup Objectives (TACO) as guidance, it can be determined whether remediation is warranted in the locations sampled. The Phase II ESA alone is not an exhaustive investigation which can be used to determine the extent of contamination, nor the cost of any suggested remediation.

The objective of the Phase II ESA was to develop a conceptual site model to identify the presence and nature of potential contamination, describe potential contaminant migration pathways, and define potential exposure pathways. To meet this objective, ENSR implemented a "phased" assessment designed to provide increasing levels of information based upon obtained data. Recognizing that existing information for the facility and potential contamination was limited, the principal tasks completed during the Phase II ESA included the following:

- Soil boring advancement and soil sample collection;
- Monitoring well installation and groundwater sample collection;
- Collection of surface soil and sediment samples;
- Laboratory analysis of samples; and,
- Evaluation of analytical results and comparison to the IEPA Tier 1 Industrial/Commercial Soil Cleanup Objectives and IEPA Tier 1 Groundwater Cleanup Objectives.

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The investigation consisted of the advancement of 28 soil borings and the installation of 6 monitoring wells at the potential areas of concern identified during the Phase I ESA. Soil samples were collected from the borings and groundwater samples were collected from the monitoring wells. These samples were submitted for analysis of benzene, toluene, ethyl benzene, and total xylenes (BTEX) using EPA Method 8260, polynuclear aromatic hydrocarbons (PNAs) using EPA Method 8310, polychlorinated biphenyls (PCBs) using EPA Method 8081, Resource Conservation and Recovery Act (RCRA) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) using EPA Method series 6000 and 7000, and pH by EPA Method 9045. Water quality field parameters, consisting of pH, specific conductivity, and temperature, were also recorded from the groundwater samples collected.

In addition, 22 surface soil samples were collected from the identified potential areas of concern and 12 sediment samples were collected from selected ash/coal settling ponds or drainage ditches located at the facility. These samples were submitted for analysis of the previously referenced constituents as well as total petroleum hydrocarbons (TPH) using EPA Method 8015.

### **1.3 Report Organization**

**Section 1** introduces the principal subjects covered in this report, describes the purpose and scope of the Phase II ESA, and presents limitations of the Phase II ESA. **Section 2** provides information regarding the identified potential areas of concern and the methodologies used during the investigation. **Section 3** presents the results of the Phase II ESA. **Section 4** presents the data assessment of the Phase II ESA. Tables summarizing the analytical results and Figures illustrating the facility location and layout, as well as sampling locations, have been included under the appropriate headings.

**Appendix A** contains laboratory analytical reports. **Appendix B** contains boring logs and monitoring well construction diagrams. **Appendix C** contains monitoring well gauging and survey data.

### **1.4 Limitations**

This report, including all attachments thereto, describes the results of ENSR's Phase II ESA conducted at the Powerton Generating Station, which took place between October 5 and November 3, 1998. Many of the facts and conditions pertaining to this Phase II ESA are subject to change over time; accordingly, the evaluations and conclusions must be viewed within this context.

ENSR has performed this Phase II ESA in a professional manner using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. ENSR shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time this Phase II ESA was performed.



This report and all field data, notes, and laboratory test data (hereinafter collectively "Information") were prepared by ENSR solely for the benefit of ENSR's Client, ComEd. ENSR's Client may release this Information to third parties, who may use and rely upon the Information at their own discretion. However, any use of or reliance upon this Information by a party other than parties identified shall be solely at the risk of such third party and without legal recourse against ENSR, or its subsidiaries and affiliates, or their respective employees, officers or directors, regardless of whether the action in which recovery of damages is sought is based upon contract, tort (including the sole, concurrent or other negligence and strict liability of ENSR), statute or otherwise. This Information shall not be used or relied upon by a party which does not agree to be bound by the above statement.

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## 2.0 INVESTIGATION METHODS

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Prior to initiation of field investigations, a site reconnaissance was performed during the Phase I ESA to define the study area. Field investigation activities were subsequently conducted to obtain site specific information and data pertaining to site geology and hydrogeology, groundwater quality, soil properties, and potential contaminant source(s).

The sampling locations were recommended based on the preliminary Phase I ESA findings. A sampling location summary listing is presented in Table 1. A summary of the identified potential areas of concern is presented below.

- 1. Yard & Roof Runoff Basins.** Two Yard & Roof Runoff Basins are located at the facility. These ponds collect surface water runoff from the surrounding area. The East Yard & Roof Runoff Basin is located in the northeastern portion of the facility. Two sediment samples (X-2 and X-3) were collected and one monitoring well (MW-1) was installed. In addition, one sediment sample (X-1) was collected from a drainage ditch located east of the East Yard & Roof Runoff Basin. The West Yard & Roof Runoff Basin is located in the southwestern portion of the facility. One sediment sample (X-10) was collected.
- 2. Transformers.** Transformers with oil staining were observed throughout the facility. Soil samples were collected in 7 locations with the most significant staining. The first location contains the transformers on the eastern portion of the south side of the main building. One soil boring (B-1) was advanced and one surface soil sample (S-1) was collected. The second location contains the transformers on the western portion of the south side of the main building. Two surface soil samples (S-3 and S-4) were collected. The third location contains the transformers on the western portion of the north side of the main building. One soil boring (B-6) was advanced and three surface soil samples (S-6, S-7, and S-12) were collected. The fourth location contains the transformers on the south side of the former main building. Two surface soil samples (S-5 and S-14) were collected. The fifth location contains the transformers on the north side of the former main building. One soil boring (B-19) was advanced. The sixth location contains the transformers at the Coal Handling Tractor Repair Garage, located on the northeast side of the coal pile. One surface soil sample (S-16) was collected. The seventh location contains the transformers on the east side of the West Yard & Roof Runoff Basin. One surface soil sample (S-20) was collected.
- 3. Petroleum Aboveground Storage Tanks.** Two aboveground storage tanks (ASTs), which are used for the storage of diesel fuel, are located at the facility. One diesel AST is located near the southwestern corner of the main building. Two soil borings (B-5 and B-35) were advanced. The second diesel AST is located at the Coal Handling Tractor Repair Garage, located on the northeast side of the coal pile. One surface soil sample (S-19) was collected. One AST, used for the storage of turbine oil, is located in the eastern portion of the main building. One surface soil sample (S-22) was collected. In addition, an abandoned gasoline AST is also located near the southwestern corner of the

main building. Two soil borings (B-4 and B-18) were advanced.

4. **Diesel Underground Storage Tank.** One underground storage tank (UST) is located at the eastern portion of the south side of the main building. One surface soil sample (S-2) was collected.
5. **Used Oil UST.** One used oil UST is located near the Used Oil Shed, which is south of the main building. One soil boring (B-15) was advanced.
6. **Wastewater ASTs.** There are three areas containing wastewater ASTs at the facility. These ASTs are used to store water that has been processed prior to disposal. The first wastewater AST area is located to the north of the eastern portion of the main building. One soil boring (B-9) was advanced. The second wastewater AST area is located to the north of the western portion of the main building. One surface soil sample (S-9) was collected. The third wastewater AST area is located to the northwest of the former main building. One soil boring (B-10) was advanced.
7. **Oil/Water Separators.** Two oil/water separators are located at the facility. The northern oil/water separator is located adjacent to the East Yard & Roof Runoff Basin. One soil boring (B-11) was advanced and one surface soil sample (S-10) was collected. The southern oil/water separator is located adjacent to the West Yard & Roof Runoff Basin. One soil boring (B-33) was advanced and one monitoring well (MW-7) was installed.
8. **Ash/Slag Disposal Area.** Two ash/slag disposal areas are located at the facility. These areas are used to store ash/slag prior to having it transported off-site. One disposal area is at northwestern corner of the facility. One soil boring (B-12) was advanced and one monitoring well (MW-2) was installed. The second disposal area is to the south of the Wastewater Treatment Plant. One soil boring (B-23) was advanced.
9. **Ash/Slag Ponds.** There are 4 ponds at the facility which are used to collect ash/slag wastewater. The ponds are located at the northwestern corner of the facility. One Ash Surge Basin is located to the west of the East Yard & Roof Runoff Basin. One sediment sample (X-4) was collected. Two Ash Settling Basins are located to the west of the Ash Surge Basin. One sediment sample (X-12) was collected from the western pond, and one sediment sample (X-6) was collected from the eastern pond. In addition, two soil borings (B-13 and B-36) were advanced, one monitoring well (MW-3) was installed, and one surface soil sample (S-23) was collected. One Slag Overflow Basin is located to the north of the Ash Surge Basin. One sediment sample (X-5) was collected.
10. **Wastewater Treatment Plant.** A Wastewater Treatment Plant is located to the south of the Ash Surge Basin. One soil boring (B-14) was advanced and one surface soil sample (S-11) was collected.
11. **Metal Cleaning Waste Basin.** There is one pond at the facility which is used to collect metal cleaning wastewater. One sediment sample (X-11) was collected.

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- 12. Former Switch Yard.** A former Switch Yard is located to the south of the former main building. ~~Three surface soil samples (S-17, S-18, and S-24) were collected.~~
- 13. Coal Handling Area.** Coal is received at the facility via railroad. The coal is unloaded and is transported to the coal pile at the southwestern end of the facility. One soil boring (B-25) was advanced to the northwest of the coal pile, one soil boring (B-27) was advanced to the northeast of the coal pile, and one soil boring (B-26) was advanced to the north of the coal pile. In addition, one monitoring well (MW-5) was installed to the southeast of the coal pile.
- 14. Coal Pile Runoff Ponds.** Three coal pile collection basins are located at the northwestern corner of the coal pile. One sediment sample (X-7) was collected from the western pond, one sediment sample (X-8) was collected from the center pond, and one sediment sample (X-9) was collected from the eastern pond.
- 15. Coal Handling Area Buildings.** These buildings are associated with the transporting of coal, as well as housing and maintaining the coal handling tractors. These buildings are located at the north end of the coal pile. One soil boring (B-30) was advanced to the north of the Coal Handling Tractor Repair Building. One soil boring (B-21) was advanced to the west of the former Car Dumper, and one soil boring (B-22) was advanced adjacent to a former locomotive house.
- 16. Switch Yard.** The Switch Yard is located to the southeast of the coal pile. One soil boring (B-32) was advanced to the north of the Switch Yard.
- 17. Lift Station.** A lift station is located to the north of the Switch Yard. Soil staining from the pumping equipment was observed. One soil boring (B-31) was advanced and one surface soil sample (S-21) was collected.
- 18. Crib House.** The Crib House is located south of the main building. The Crib House is used to filter and treat intake cooling water from the Lake Powerton prior to being pumped into the plant. One soil boring (B-34) was advanced and one surface soil sample (S-25) was collected.
- 19. Materials Storage Areas.** There are two materials storage area located at the facility. One area is used for the storage of waste solvent and is located to the north of the Crib House. One soil boring (B-16) was advanced. The second area is used for the storage of waste oil and is located to the south of the main building. One soil boring (B-17) was advanced.

It should be noted that due to heavy concentrations of buried utility lines or other underground obstructions, eight planned soil borings (B-2, B-3, B-7, B-8, B-20, B-24, B-28, and B-29) were not advanced and one monitoring well (MW-4) was not installed. Surface soil samples were not collected at these locations due to the areas being covered with concrete/asphalt.

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## 2.1 Sampling Methods

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All soil (surface and subsurface), sediment, and groundwater samples collected were submitted for analysis of BTEX and PNA constituents using EPA Methods 8260 and 8310, respectively, PCBs using EPA Method 8081, RCRA metals using EPA Method series 6000 and 7000, and pH by EPA Method 9045. In addition, surface soil and sediment samples were submitted for TPH using EPA Method 8015. A sample summary listing is presented in Table 1.

The sample glassware used to contain the samples retained for laboratory analysis were provided pre-cleaned from National Environmental Laboratories, Inc. (NET) of Bartlett, Illinois. Each sample was labeled with the project number, project location, client, sample number, sample depth, date, time, and requested analysis. The soil samples were stored on ice in the field in a cooler and shipped via courier under chain-of-custody to NET. Standard chain-of-custody procedures were maintained from the time of sample collection until delivery to the analytical laboratory.

### 2.1.1 Sediment Sampling

Twelve sediment samples (X-1 through X-12) were collected at the facility. The sediment sample locations are illustrated on Figure 3. Sediment samples were collected using a stainless steel hand shovel. All sampling equipment was decontaminated between each sediment sample location using the procedure outlined in Section 2.3.

### 2.1.2 Surface Soil Sampling

Twenty-two surface soil samples (S-1 through S-7, S-9 through S-12, S-14, and S-16 through S-25) were collected at the facility. The surface soil sample locations are illustrated on Figure 4. Surface soil samples were collected using a stainless steel hand shovel. All sampling equipment was decontaminated between each sediment sample location using the procedure outlined in Section 2.3.

### 2.1.3 Soil Borings and Subsurface Soil Sampling

Twenty-eight soil borings (B-1, B-4 through B-6, B-9 through B-19, B-21 through B-23, B-25 through B-27, and B-30 through B-36) were advanced at the facility. It should be noted that due to heavy concentrations of buried utility lines or other underground obstructions, eight planned soil borings (B-2, B-3, B-7, B-8, B-20, B-24, B-28, and B-29) were not advanced. The soil borings locations are illustrated on Figure 5. The soil borings were advanced by Fox Drilling, Inc. (Fox) of Itasca, Illinois, utilizing Geoprobe direct-push drilling techniques. The soil borings were advanced to a maximum depth of 20 feet below grade. All soil borings were backfilled with soil cuttings, and completed at surface grade with the appropriate material (i.e., concrete, asphalt). All sampling equipment was decontaminated between each soil boring location using the procedure outlined in Section 2.3.

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Soil samples were collected by advancing by a hydraulically-driven stainless steel pre-probe. Soil samples were collected using a 2.0-inch diameter acetate lined soil sampler. Soil samples were continuously collected from the surface to the bottom of the soil borings. The soil samples were visually inspected and field classified using the general guidelines of the Unified Soil Classification System (USCS) and the American Society for Testing and Materials (ASTM) Test Method ASTM D2488 for soil classification.

Each soil sample was field screened for the presence of VOCs using a photoionization detector (PID) and standard headspace screening methods. The PID readings indicate relative levels of VOCs in the vapor headspace, but do not represent actual concentrations which may exist in the soil. The PID has a detection range of 1.0 part per million volume (ppmv) to 2,500 ppmv. The soil sample which exhibited the highest PID reading, or if no PID readings were detected, from directly above the field-interpreted groundwater level, was retained from each boring for laboratory analysis.

#### **2.1.4 Monitoring Wells and Groundwater Sampling**

Six monitoring wells (MW-1 through MW-3, and MW-5 through MW-7) were installed at the facility. The monitoring well locations are illustrated on **Figure 5**. It should be noted that due to heavy concentrations of buried utility lines or other underground obstructions, one monitoring well (MW-4) was not advanced. The monitoring wells were installed by Fox utilizing hollow-stem augers and rotary drilling techniques. The monitoring wells were installed to a maximum depth of 26 feet below grade. Fluids generated during monitoring well installation and groundwater sampling were discharged to the ground surface in proximity to each sampling location. All sampling equipment was decontaminated between each soil boring location using the procedure outlined in **Section 2.3**.

The monitoring wells were installed through the working space within hollow stem augers. The monitoring wells were constructed of 2-inch diameter Schedule 40 PVC 0.010-inch slotted continuous wrap well screen and solid riser. A filter pack consisting of clean silica sand was placed surrounding the well screen to filter out fine soil particles from the formation adjacent to the screen. The filter pack extends from the bottom of the soil boring to approximately 1-foot above the top of the well screen. A bentonite pellet seal was placed on top of the sand pack and hydrated with distilled water to prevent surface water infiltration. The annular space above the bentonite seal was filled with a neat bentonite and cement grout to approximately 6-inches below grade. The monitoring wells were completed at grade and an 8-inch diameter steel protective road box was placed over each monitoring well and set in concrete at grade. The monitoring wells were capped with expandable well caps and equipped with locks to prevent unauthorized access. A monitoring well construction diagram is included in **Appendix A**.

After the installation of the monitoring wells, approximately three to five well volumes of groundwater was removed from each monitoring well, or until the groundwater was relatively free from sediment, using a peristaltic pump. One groundwater sample was

collected from each monitoring well and submitted for laboratory analysis. In addition, water quality field parameters consisting of pH, specific conductivity, and temperature were measured and recorded during sample collection.

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## **2.2 Monitoring Well Gauging and Survey**

Each monitoring well was gauged using an electronic interface probe in order to determine the presence or absence of liquid-phase hydrocarbons (LPHCs) and depth to groundwater. In addition, each monitoring well's top of casing and ground surface location was surveyed relative to an arbitrary benchmark assigned an elevation of 100 feet.

## **2.3 Equipment Decontamination**

The drill rig and associated tooling, and sampling equipment were decontaminated prior to mobilization and before leaving the site. To minimize the potential for cross-contamination, drilling and sampling equipment were decontaminated between each use. Decontamination of drilling equipment consisted of steam cleaning. Sampling equipment, including split spoons and stainless steel sampling equipment, were decontaminated before each use by washing with a solution of Alconox (phosphate based detergent) and potable water, and rinsing with distilled water. Decontamination fluids generated during equipment decontamination were discharged to the ground surface in proximity to each sampling location.

### 3.0 INVESTIGATION FINDINGS

The findings of the subsurface investigation, soil and groundwater sampling, monitoring well gauging, survey, and chemical analysis, are presented below. Analytical results are summarized in Table 2 through Table 5. The analytical reports and chain-of-custody forms are included in Appendix B.

Analytical results were compared against the cleanup objectives as presented in 35 Illinois Administrative Code (IAC) Section 742. Appendix B: Table B-Tier 1 Soil Remediation Objectives for Commercial/Industrial Properties, and 35 IAC Section 742. Appendix B: Table E-Tier 1 Groundwater Remediation Objectives for the Direct Ingestion of Groundwater Portion of the Groundwater Ingestion Route.

Soil analytical results for the RCRA metals are shown as totals. Therefore, the soil component of the groundwater ingestion exposure route has not been considered. In addition, the groundwater beneath the site is classified as Class I, therefore the Class I baseline was used.

#### 3.1 Sediment

**BTEX.** The analytical results indicated that BTEX constituents were not detected above the laboratory method detection limits.

**TPH.** The analytical results indicated that TPH as oil was detected at concentrations ranging from 352 milligrams per kilogram (mg/kg) in sample X-7 to 18,500 mg/kg in sample X-10. However, cleanup objectives for TPH have not been established by the IEPA. TPH as gasoline or diesel was not detected above the laboratory method detection limits.

**PNAs.** The analytical results indicated that benzo(a)pyrene was detected in samples X-2 and X-10 at concentrations of 0.81 mg/kg and 4.8 mg/kg, respectively, which are above the IEPA cleanup objective of 0.8 mg/kg. It should be noted that samples X-1, X-2, and X-7 through X-10 had elevated detection limits due to matrix interference. These elevated detection limits are above the cleanup objectives for benzo(a)anthracene and dibenzo(a,h)anthracene, and consequently, there is a possibility that the concentrations are actually above the cleanup objectives.

**PCBs.** The analytical results indicated that PCBs were not detected above the laboratory method detection limits.

**Metals.** The analytical results indicated that arsenic was detected at concentrations above the IEPA cleanup objective of 3 mg/kg. Arsenic was detected at concentrations ranging from 3.2 mg/kg in sample X-5 to 17 mg/kg in sample X-4. However, the concentrations of arsenic are within the range of arsenic (0.35 mg/kg to 24 mg/kg) detected by the EPA during a state wide soil survey in 1992.



**pH.** pH values ranged from 7.11 in sample X-9 to 8.94 in sample X-5.

Analytical results are summarized in Table 2, and sampling locations are illustrated on Figure 3. The analytical report and chain-of-custody forms are included in Appendix B.

### **3.2 Surface Soil**

**BTEX.** The analytical results indicated that BTEX constituents were detected in the surface soil samples collected. However, these concentrations were not above the IEPA cleanup objectives.

**TPH.** The analytical results indicated that TPH as gasoline was detected at concentrations ranging from 232 mg/kg in sample S-18 to 2,360 mg/kg in sample S-23, and TPH as diesel was detected at a concentration of 4,930 mg/kg in sample S-19. TPH as oil was detected at concentrations ranging from 89 mg/kg in sample S-10 to 72,700 mg/kg in sample S-1. However, cleanup objectives for TPH have not been established by the IEPA.

**PNAs.** The analytical results indicated that benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-c,d)pyrene were detected in samples S-2, S-3, S-5, S-9, S-12, and S-16 at concentrations above the IEPA cleanup objectives. It should be noted that sample S-4 had an elevated detection limit due to matrix interference. This elevated detection limit is above the cleanup objective for benzo(a)pyrene, and consequently, there is a possibility that the concentration is actually above the cleanup objective of 0.8 mg/kg. Refer to Table 3 for PNA results.

**PCBs.** The analytical results indicated that PCBs were detected at concentrations above the IEPA cleanup objective of 1.0 mg/kg. These concentrations were at 1.2 mg/kg in sample S-18 and 1.71 mg/kg in sample S-22. It should be noted that sample S-24 had an elevated detection limit due to matrix interference. This elevated detection limit is above the cleanup objective and consequently there is a possibility that the concentration is actually above the cleanup objective.

**Metals.** The analytical results indicated that arsenic and lead were detected at concentrations above the IEPA cleanup objectives of 3 mg/kg and 400 mg/kg, respectively. Arsenic was detected at concentrations ranging from 3.2 mg/kg in sample S-25 to 11 mg/kg in sample S-14. However, the concentrations of arsenic are within the range of arsenic (0.35 mg/kg to 24 mg/kg) detected by the EPA during a state wide soil survey in 1992. Lead was detected at concentrations of 558 mg/kg in sample S-4 and 831 mg/kg in sample S-12.

**pH.** pH values ranged from 5.93 in sample S-4 to 9.42 in sample S-7.

Analytical results are summarized in Table 3, and sampling locations are illustrated on Figure 4. The analytical report and chain-of-custody forms are included in Appendix B.

### 3.3 Subsurface Soil

~~Native soil encountered beneath the fill material consisted primarily of a brown, fine to medium sand to the maximum depth of the borings at 20 feet below grade, with intermittent 2 to 4 foot silty clay layers. Soil boring logs are included in Appendix A.~~

The PID readings obtained from the soil samples collected ranged from 1.3 ppmv in B-22 (8 to 12 feet below grade) to 708 ppmv in B-15 (0 to 4 feet below grade). The PID field screening results are recorded on the boring logs in Appendix A.

**BTEX.** The analytical results indicated that BTEX constituents were not detected above the laboratory method detection limits.

**PNAs.** The analytical results indicated that PNA constituents were detected in only one subsurface soil sample collected. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene were detected in B-5 at concentrations above the IEPA cleanup objectives. Refer to Table 4 for PNA results.

**PCBs.** The analytical results indicated that PCBs were detected in the subsurface soil samples collected. However, these concentrations were not above the IEPA cleanup objective of 1.0 mg/kg.

**Metals.** The analytical results indicated that arsenic was detected at concentrations above the IEPA cleanup objectives of 3 mg/kg. Arsenic was detected at concentrations ranging from 3.3 mg/kg in B-34 to 177 mg/kg in B-23. However, the majority of concentrations of arsenic are within the range of arsenic (0.35 mg/kg to 24 mg/kg) detected by the EPA during a state wide soil survey in 1992. Arsenic was detected at concentrations ranging from 25 mg/kg in B-14 to 177 mg/kg in B-23. The majority soil boring locations with elevated concentrations of arsenic were located in the vicinity of the slag and fly ash areas.

**pH.** pH values ranged from 7.79 in B-13 to 9.59 in B-4.

Analytical results are summarized in Table 4, and soil boring locations are illustrated on Figure 5. The analytical report and chain-of-custody forms are included in Appendix B.

### 3.4 Groundwater

The groundwater elevations ranged from 8.11 feet in MW-2 to 25.91 feet in MW-3. LPHC was not detected in any of the monitoring wells. Based on the gauging data, the apparent groundwater flow direction beneath the facility has been calculated to be to the northwest (Figure 6, Groundwater Elevation Map). Monitoring well gauging data is included in Appendix C.

Water quality field parameters consisting of pH, specific conductivity, and temperature were measured. The recorded measurements are summarized in Table 5.

**BTEX.** The analytical results indicated that BTEX constituents were not detected above the laboratory method detection limits.

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**PNAs.** The analytical results indicated that PNA constituents were detected in the groundwater samples collected. However, these concentrations were not above the IEPA cleanup objectives.

**PCBs.** The analytical results indicated that BTEX constituents were not detected above the laboratory method detection limits.

**Metals.** The analytical results indicated that arsenic and barium were detected in the groundwater samples collected. However, these concentrations were not above the IEPA cleanup objectives. It should be noted that laboratory detection limit for cadmium was at 0.01 mg/l which is above the cleanup objective of 0.005 mg/l. Consequently, there is a possibility that the concentrations are actually above the cleanup objective.

Analytical results are summarized in **Table 5**, and monitoring well locations are illustrated on **Figure 5**. The analytical report and chain-of-custody forms are included in **Appendix B**.

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## 4.0 DATA ASSESSMENT

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### 4.1 Extent of Contamination

Based on the results of the subsurface investigation conducted, the following determinations and assessments were made regarding the extent of contamination at the facility. The following conclusions are subject to the Limitations presented in Section 1.4. In addition, although arsenic was detected above the IEPA cleanup objective, the majority of concentrations of arsenic are within the range of arsenic detected by the EPA during a state wide soil survey in 1992. The majority soil boring locations with elevated concentrations of arsenic were located in the vicinity of the slag and fly ash areas. However, it should be noted that soil analytical results for the RCRA metals are shown as totals. Therefore, the soil component of the groundwater ingestion exposure route has not been considered.

#### 4.1.1 Sediment

Arsenic and benzo(a)pyrene were the constituents of concern detected at concentrations above the IEPA cleanup objectives.

Benzo(a)pyrene was detected above the IEPA cleanup objective in the following locations:

- **Yard & Roof Runoff Basins.** The East Yard & Roof Runoff Basin located in the northeastern portion of the facility (X-2) and the West Yard & Roof Runoff Basin is located in the southwestern portion of the facility (X-10).

It should be noted that due to matrix interference in samples X-1, X-2, and X-7 through X-10 benzo(a)anthracene, benzo(a)pyrene, and dibenzo(a,h)anthracene had elevated detection limits. Consequently, there is a possibility that the concentrations are actually above the cleanup objectives. These samples were collected from a drainage ditch east of the East Yard & Roof Runoff Basin (X-1), the East Yard & Roof Runoff Basin (X-2), the three Coal Runoff Ponds (X-7 through X-9), and the West Yard & Roof Runoff Basin (X-10).

Arsenic was detected above the IEPA cleanup objective, at a maximum concentration of 17 mg/kg in the following locations:

- **Yard & Roof Runoff Basins.** The drainage ditch east of the East Yard & Roof Runoff Basin (X-1), the East Yard & Roof Runoff Basin (X-2 and X-3), and the West Yard & Roof Runoff Basin is located in the southwestern portion of the facility (X-10).
- **Ash/Slag Ponds.** The Ash Surge Basin located to the west of the East Yard & Roof Runoff Basin (X-4), the Slag Overflow Basin located to the north of the Ash Surge Basin (X-5), the eastern Ash Settling Basin (X-6), and the western Ash Settling Basin (X-12).

- **Coal Runoff Ponds.** The western Coal Runoff Pond (X-7) and the center Coal Runoff Pond (X-8).
- **Metal Cleaning Waste Basin.** The Metal Cleaning Waste Basin (X-4) located south of the Ash Surge Basin.

#### 4.1.2 Surface Soil

Arsenic, lead, PCBs, and PNA constituents listed as benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-c,d)pyrene were the constituents of concern detected at concentrations above the IEPA cleanup objectives.

PNA constituents were detected above the IEPA cleanup objectives in the following locations:

- **Diesel UST.** The diesel UST located on the south side of the eastern portion of the main building (S-2).
- **Transformers.** The transformers located on the south side of the western portion of the main building (S-3), transformers located on the south side of the former building (S-5), transformers located on the north side of the western portion of the main building (S-12), and transformers located at the Coal Handling Tractor Repair Garage (S-16).
- **Wastewater ASTs.** The wastewater ASTs located north of the western portion of the main building (S-9).

It should be noted that due to matrix interference in sample S-4, benzo(a)pyrene had an elevated detection limit. Consequently, there is a possibility that the concentration is actually above the cleanup objective of 0.8 mg/kg. This sample was collected from the transformers located on the south side of the western portion of the main building (S-4).

Arsenic was detected above the IEPA cleanup objective, at a maximum concentration of 11 mg/kg in the following locations:

- **Transformers.** The transformers located on the south side of the eastern portion of the main building (S-1), transformers located on the south side of the western portion of the main building (S-3 and S-4), transformers located on the south side of the former building (S-5 and S-14), transformers located on the north side of the western portion of the main building (S-6, S-7, and S-12), transformers located at the Coal Handling Tractor Repair Garage (S-16), and transformers located on the east side of the West Yard & Roof Runoff Basin (S-20).
- **Diesel UST.** The diesel UST located on the south side of the eastern portion of the main building (S-2).
- **Wastewater ASTs.** The wastewater ASTs located north of the western portion of the main building (S-9).
- **Oil/Water Separators.** The northern oil/water separator located east of the Ash Surge Basin (S-10).

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- **Wastewater Treatment Plan.** The Wastewater Treatment Plant located south of the Ash Surge Basin (S-11).
  - **Former Switch Yard.** The former Switch Yard located south of the former main building (S-17 and S-24).
  - **Petroleum ASTs.** The diesel AST located at the Coal Handling Tractor Repair Garage (S-19) and the turbine oil AST located in the eastern portion of the main building (S-22).
  - **Lift Station.** The lift station located north of the Switch Yard (S-21).
  - **Crib House.** The Crib House located south of the main building (S-25).

Lead was detected above the IEPA cleanup objective, at a maximum concentration of 831 mg/kg in the following locations:

- **Transformers.** The transformers located on the south side of the western portion of the main building (S-4) and transformers located on the north side of the western portion of the main building (S-12).

PCBs were detected above the IEPA cleanup objective in the following locations:

- **Former Switch Yard.** The former Switch Yard located south of the former main building (S-18).
- **Petroleum ASTs.** The turbine oil AST located in the eastern portion of the main building (S-22).

It should be noted that due to matrix interference sample S-24 had an elevated detection limit. Consequently, there is a possibility that the PCB concentration is actually above the cleanup objective of 1.0 mg/kg. This sample was collected from the former Switch Yard located south of the former main building (S-24).

#### 4.1.3 Subsurface Soil

Arsenic and PNA constituents listed as benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene were the constituents of concern detected at concentrations above the IEPA cleanup objectives.

PNA constituents were detected above the IEPA cleanup objectives in the following locations:

- **Petroleum ASTs.** The diesel AST located near the southwestern corner of the main building (B-5).

Arsenic was detected above the IEPA cleanup objective, at a maximum concentration of 177 mg/kg in the following locations:

- **Transformers.** The transformers located on the south side of the eastern portion of the main building (B-1), transformers located on the north side of the former main building (B-19), and transformers located on the north side of the western portion of the main building (B-6),
- **Petroleum ASTs.** An abandoned gasoline AST located near the southwestern corner of the main building (B-4 and B-18) and the diesel AST located near the southwestern corner of the main building (B-5 and B-35).
- **Wastewater ASTs.** The wastewater ASTs located north of the eastern portion of the main building (B-9) and the wastewater ASTs located northwest of the main building (B-10).
- **Oil/Water Separators.** The northern oil/water separator located east of the Ash Surge Basin (B-11).
- **Ash/Slag Disposal Areas.** The disposal area located in the northwest corner of the facility (B-12) and the disposal area located to the south of the Wastewater Treatment Plant (B-23).
- **Ash/Slag Ponds.** The Ash Settling Ponds located to the west of the Ash Surge Basin (B-13 and B-36).
- **Wastewater Treatment Plant.** The Wastewater Treatment Plant located south of the Ash Surge Basin (B-14).
- **Used Oil UST.** The used oil UST located near the Used Oil Shed, which is south of the main building (B-15).
- **Material Storage Areas.** The storage area located north of the Crib House (B-16) and the storage area located south of the main building (B-17).
- **Coal Handling Area Buildings.** The area west of the former Car Dumper (B-21), the former locomotive house (B-22), and the Coal Handling Tractor Repair Building (B-30).
- **Coal Handling Area.** The coal pile located at the southwestern corner of the facility (B-25 through B-27)
- **Lift Station.** The lift station located north of the Switch Yard (B-31).
- **Switch Yard.** The Switch Yard located southeast of the coal pile (B-32).
- **Crib House.** The Crib House located south of the main building (B-34).

#### 4.1.4 Groundwater

There were no constituents of concern detected at concentrations above the IEPA cleanup objectives in the groundwater samples collected. It should be noted that laboratory detection limit for cadmium was at 0.01 mg/l which is above the cleanup objective of 0.005 mg/l. Consequently, there is a possibility that the concentrations are actually above the cleanup objective.

## **4.2 Potential Contaminant Exposure Pathways**

~~Based on the above-referenced assessment, potential exposure pathways by which humans~~ may be exposed to the constituents of concern have been identified at the facility. Potential sources, fate and transport mechanisms, and exposure media were considered in determining these potential exposure pathways. An identified potential exposure pathway does not imply that exposure is occurring, only that the potential exists for exposure.

### **4.2.1 Soil Ingestion**

The soil ingestion pathway includes the first three feet within ground surface. Therefore, based on the analytical results, soil ingestion is a potential contaminant exposure pathway. Soil ingestion occurs when soil containing elevated concentrations of the constituents of concern are ingested into the body. The facility is an industrial site and direct contact and ultimately ingestion of the impacted soil is not likely to occur. However, construction activities would increase the possibility of exposure. Therefore, this pathway would need to allow for protection/prevention for the construction worker scenario.

### **4.2.2 Soil Inhalation**

The soil inhalation pathway includes the first ten feet within ground surface. Therefore, based on the analytical results, soil inhalation is a potential contaminant exposure pathway. Soil inhalation occurs when elevated concentrations of the constituents of concern are inhaled into the body. However, the highly volatile constituents (i.e., BTEX, TPH as gasoline), were not detected at concentrations above the IEPA cleanup objectives. The constituents that were detected at concentrations above the IEPA cleanup objectives (i.e., metals, semi-volatiles, PCBs), are not considered highly volatile. Based on the relatively low volatility of the constituents of concern detected above the IEPA cleanup objectives, the soil inhalation exposure pathway is not a likely contaminant exposure pathway.

### **4.2.3 Groundwater Ingestion**

The groundwater ingestion pathway includes groundwater being used as a potable source of water. Therefore, due to the fact that the facility receives its potable water from water supply wells located at the facility, the groundwater ingestion is a potential contaminant exposure pathway. However, no constituents of concern were detected at concentrations above the IEPA cleanup objectives in the groundwater samples collected.

Based on the current land use (industrial) and site conditions (analytical results and soil types), it is judged that the potential for human exposure to the constituents of concern from this facility is low. However, personnel working at the facility could be susceptible to exposure due to accidental soil ingestion or soil inhalation due to activities such as construction. Such exposure may result from contact with contaminated subsurface or surface materials previously located beneath a protective barrier (i.e., concrete cap, building).



There is no requirement under Illinois environmental law to further investigate or remediate this property.

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**TABLES**

**Phase II Environmental Site Assessment  
Commonwealth Edison Company  
December 7, 1998**

**Powerton Generating Station  
Route 29 & Mantino Road  
Pekin, Illinois**

Table 1

## Sampling Locations and Analyses Summary

Commonwealth Edison Company  
 Powerton Generating Station  
 Route 29 Manteno Road  
 Pekin, Illinois

Page 1 of 3

	Sampling Locations <sup>1)</sup>	Sampling Parameters	Sampling Depth (In feet)	Date Collected
<b><u>Sediment Sample Identification</u></b>				
X-1	Yard & Roof Runoff Basins	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/14/98
X-2	Yard & Roof Runoff Basins	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/14/98
X-3	Yard & Roof Runoff Basins	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/14/98
X-4	Ash/Slag Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/14/98
X-5	Ash/Slag Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/14/98
X-6	Ash/Slag Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/14/98
X-7	Coal Runoff Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/14/98
X-8	Coal Runoff Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/15/98
X-9	Coal Runoff Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/15/98
X-10	Yard & Roof Runoff Basins	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/15/98
X-11	Metal Cleaning Waste Basin	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/15/98
X-12	Ash/Slag Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/15/98
<b><u>Monitoring Well Sample Identification</u></b>				
MW-1	Yard & Roof Runoff Basins	BTEX, PNAs, PCBs, RCRA metals, pH	NA	11/02/98
MW-2 (B-12)	Ash/Slag Disposal Area	BTEX, PNAs, PCBs, RCRA metals, pH	NA	11/02/98
MW-3	Ash/Slag Ponds	BTEX, PNAs, PCBs, RCRA metals, pH	NA	11/02/98
MW-5	Coal Handling Area	BTEX, PNAs, PCBs, RCRA metals, pH	NA	11/02/98
MW-6	Background Monitoring Point	BTEX, PNAs, PCBs, RCRA metals, pH	NA	11/02/98
MW-7 (B-33)	Oil/Water Separator	BTEX, PNAs, PCBs, RCRA metals, pH	NA	11/02/98

Table 1

## Sampling Locations and Analyses Summary

Commonwealth Edison Company  
 Powerton Generating Station  
 Route 29 Mantino Road  
 Pekin, Illinois

Page 2 of 3

	Sampling Locations	Sampling Parameters	Sampling Depth (in feet)	Date Collected
<b>Surface Soil Sample Identification</b>				
S-1	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-2	Diesel UST	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-3	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-4	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-5	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-6	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-7	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-9	Wastewater ASTs	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-10	Oil/Water Separator	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-11	Wastewater Treatment Plant	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-12	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-14	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-16	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-17	Former Switch Yard	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-18	Former Switch Yard	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-19	Petroleum ASTs	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-20	Transformers	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-21	Lift Station	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-22	Petroleum ASTs	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-23	Ash/Slag Ponds	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-24	Former Switch Yard	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98
S-25	Crib House	TPH, BTEX, PNAs, PCBs, RCRA metals, pH	NA	10/08/98

Table 1

## Sampling Locations and Analyses Summary

Commonwealth Edison Company  
 Powerton Generating Station  
 Route 29 Mantino Road  
 Pekin, Illinois

Page 3 of 3

	Sampling Locations	Sampling Parameters	Sampling Depth (in feet)	Date Collected
<b>Boring Identification</b>				
B-1	Transformers	BTEX, PNAs, PCBs, RCRA metals, pH	16-20	10/06/98
B-4	Petroleum ASTs	BTEX, PNAs, PCBs, RCRA metals, pH	12-16	10/06/98
B-5	Petroleum ASTs	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/06/98
B-6	Transformers	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/06/98
B-9	Wastewater ASTs	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/06/98
B-10	Wastewater ASTs	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/06/98
B-11	Oil/Water Separator	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/06/98
B-12	Ash/Slag Disposal Area	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/06/98
B-13	Ash/Slag Ponds	BTEX, PNAs, PCBs, RCRA metals, pH	12-16	10/06/98
B-14	Wastewater Treatment Plant	BTEX, PNAs, PCBs, RCRA metals, pH	16-20	10/06/98
B-15	Used Oil UST	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/07/98
B-16	Materials Storage Areas	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/07/98
B-17	Materials Storage Areas	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/07/98
B-18	Petroleum ASTs	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/06/98
B-19	Transformers	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/07/98
B-21	Coal Handling Area Buildings	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/07/98
B-22	Coal Handling Area Buildings	BTEX, PNAs, PCBs, RCRA metals, pH	16-20	10/07/98
B-23	Ash/Slag Disposal Area	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/07/98
B-25	Coal Handling Area	BTEX, PNAs, PCBs, RCRA metals, pH	8-12	10/07/98
B-26	Coal Handling Area	BTEX, PNAs, PCBs, RCRA metals, pH	16-20	10/07/98
B-27	Coal Handling Area	BTEX, PNAs, PCBs, RCRA metals, pH	12-16	10/07/98
B-30	Coal Handling Area Buildings	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/07/98
B-31	Lift Station	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/07/98
B-32	Switch Yard	BTEX, PNAs, PCBs, RCRA metals, pH	4-8	10/07/98
B-33	Oil/Water Separator	BTEX, PNAs, PCBs, RCRA metals, pH	16-20	10/07/98
B-34	Crib House	BTEX, PNAs, PCBs, RCRA metals, pH	0-4	10/07/98
B-35	Petroleum ASTs	BTEX, PNAs, PCBs, RCRA metals, pH	16-20	10/06/98
B-36	Ash/Slag Ponds	BTEX, PNAs, PCBs, RCRA metals, pH	12-16	10/06/98

## Notes:

BTEX was analyzed using EPA Method 8260.

PNAs were analyzed using EPA Method 8310

PCBs were analyzed using EPA Method 8081.

RCRA metals were analyzed using EPA Method series 6000 and 7000.

pH was measured using EPA Method 9045.

<sup>(1)</sup> Sampling locations are referenced in the Phase II Environmental Site Assessment Report in Section 2.0.

**Sediment Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Powerton Generating Station**  
**Route 29 Manteno Road**  
**Pekin, Illinois**

Parameters	Sample I.D. Lab I.D. Sample Date	X-1 498643 10/14/98	X-2 498644 10/14/98	X-3 498645 10/14/98	X-4 498646 10/14/98	X-5 498647 10/14/98	X-6 498648 10/14/98	IEPA Soil Cleanup Objectives
<b>BTEX</b>								
Benzene		< 0.01	< 0.01	< 0.01	< 0.01	< 0.008	< 0.007	0.03
Toluene		< 0.01	< 0.01	< 0.01	< 0.01	< 0.008	< 0.007	12
Ethyl Benzene		< 0.01	< 0.01	< 0.01	< 0.01	< 0.008	< 0.007	13
Total Xylenes		< 0.01	< 0.01	< 0.01	< 0.01	< 0.006	< 0.007	160
<b>TPH</b>								
Gasoline		< 100	< 140	< 110	< 130	< 59	< 74	NA <sup>16</sup>
Diesel		< 100	< 140	< 110	< 130	< 59	< 74	NA
Oil		< 100	15,300	< 110	< 130	< 59	560	NA
<b>PNAs</b>								
Acenaphthene		< 0.40	< 0.56	< 0.044	< 0.3	< 0.024	< 0.030	570
Acenaphthylene		< 0.40	< 0.56	< 0.044	< 0.3	< 0.024	< 0.030	NA
Anthracene		< 0.81	< 1.1	< 0.088	< 0.5	< 0.047	< 0.059	12,000
Benzo(a)anthracene		< 6.3	< 3.1	< 0.059	< 0.64	< 0.039	< 0.32	2
Benzo(a)pyrene		< 0.28	0.81	< 0.010	< 0.06	< 0.0054	< 0.027	0.8
Benzo(b)fluoranthene		< 0.11	0.62	< 0.0079	< 0.05	< 0.019	0.044	5
Benzo(g,h,i)perylene		< 0.81	< 1.1	< 0.088	< 0.5	< 0.047	< 0.059	NA
Benzo(k)fluoranthene		< 0.12	0.45	< 0.0075	< 0.04	< 0.0040	< 0.047	49
Chrysene		< 0.6	0.95	< 0.07	< 0.4	< 0.04	< 0.04	160
Dibenzof(a,h)anthracene		< 0.16	< 0.2	< 0.01	< 0.1	< 0.007	< 0.014	0.8
Fluoranthene		0.59	1.9	0.051	< 0.3	< 0.024	0.1	4,300
Fluorene		< 0.40	< 0.56	< 0.15	< 0.3	< 0.024	0.034	560
Indeno(1,2,3-c,d)pyrene		< 0.17	0.59	< 0.019	< 0.1	< 0.010	< 0.016	8
Naphthalene		< 0.51	< 0.70	< 0.055	< 0.3	0.033	< 0.037	84
Phenanthrene		< 0.81	< 1.1	< 0.088	< 0.5	< 0.047	0.069	NA
Pyrene		< 0.40	1.7	0.046	< 0.3	< 0.024	0.065	4,200
<b>RCRA Metals<sup>17</sup></b>								
Arsenic		5.1	12	7	17	3.2	15	3
Barium		2,430	2,070	4,850	2,840	100	857	14,000
Cadmium		2.2	4.5	1.4	1.8	0.7	1.6	200
Chromium		26	42	33	41	40	87	420
Lead		59	110	40	44	14	53	400
Mercury		< 0.081	< 0.11	< 0.088	0.13	< 0.047	0.25	61
Selenium		< 0.51	1.4	< 0.55	< 0.64	< 0.30	3.4	1,000
Silver		< 4.0	< 5.6	< 4.4	< 5.2	< 2.4	< 3.0	1,000
<b>Total PCBs</b>		< 0.081	< 0.11	< 0.088	< 0.10	< 0.047	< 0.059	1
pH		8.44	7.99	8.11	8.21	8.94	8.04	NA

**Sediment Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Powerlon Generating Station**  
**Route 29 Mantino Road**  
**Pekin, Illinois**

Parameters	Sample I.D. Lab I.D. Sample Date	X-7 498649 10/14/98	X-8 498650 10/16/98	X-9 498651 10/16/98	X-10 498652 10/16/98	X-11 498653 10/16/98	X-12 498654 10/16/98	EPA Soil Cleanup Objectives
BTEX								
Benzene		< 0.009	< 0.01	< 0.008	< 0.009	< 0.01	< 0.007	0.03
Toluene		< 0.009	< 0.01	< 0.008	< 0.009	< 0.01	< 0.007	12
Ethyl Benzene		< 0.009	< 0.01	< 0.008	< 0.009	< 0.01	< 0.007	13
Total Xylenes		< 0.009	< 0.01	< 0.008	< 0.009	< 0.01	< 0.007	150
TPH								
Gasoline		< 89	< 100	< 83	< 83	< 110	< 69	NA
Diesel		< 89	< 100	< 83	< 83	< 110	< 69	NA
Oil		352	2,440	1,130	18,500	< 110	< 69	NA
PNAs								
Acenaphthene		< 0.036	< 0.40	< 0.33	< 3.7	< 0.045	< 0.027	570
Acenaphthylene		< 0.036	< 0.40	< 0.33	< 3.7	< 0.045	< 0.027	NA
Anthracene		< 0.071	< 0.81	< 0.66	< 7.4	< 0.090	< 0.055	12,000
Benzo(a)anthracene		< 5.0	< 2.4	< 5.4	< 3.4	< 0.31	< 0.0036	2
Benzo(a)pyrene		< 0.0096	< 0.18	< 0.61	4.8	< 0.085	< 0.0063	0.8
Benzo(b)fluoranthene		< 0.030	< 0.59	< 1.3	1.5	0.067	< 0.0049	5
Benzo(g,h,i)perylene		< 0.071	< 0.81	< 0.66	< 7.4	< 0.090	< 0.055	NA
Benzo(k)fluoranthene		< 0.01	< 0.34	< 0.76	< 0.63	0.047	< 0.0047	49
Chrysene		< 0.364	< 0.6	< 0.5	< 6	0.078	< 0.04	160
Dibenzo(a,h)anthracene		< 0.14	< 0.1	< 0.178	< 1	0.078	< 0.008	0.8
Fluoranthene		< 0.088	< 0.40	< 0.61	< 3.7	0.34	< 0.027	4,300
Fluorene		< 0.061	< 0.40	< 0.33	< 3.7	< 0.049	< 0.027	560
Indeno(1,2,3-c,d)pyrene		< 0.088	< 0.17	< 1.7	< 1.6	0.031	< 0.012	0
Naphthalene		< 0.045	< 0.51	< 0.41	< 4.7	0.074	< 0.034	84
Phenanthrene		0.12	< 0.81	< 0.66	< 7.4	0.17	< 0.055	NA
Pyrene		< 1.7	< 0.40	0.84	< 3.7	0.18	< 0.027	4,200
RCRA Metals								
Arsenic		5	3.4	2.3	6.7	13	3.6	3
Barium		2,320	1,070	561	372	2,470	288	14,000
Cadmium		0.96	1.3	< 0.83	1.3	1.8	0.69	200
Chromium		18	8.9	7.8	18	47	120	420
Lead		36	28	17	39	67	41	400
Mercury		0.32	0.75	0.26	< 0.074	0.76	< 0.055	61
Selenium		0.48	< 0.51	< 0.41	< 0.47	1.1	< 0.34	1,000
Silver		< 3.6	< 4.0	< 3.3	< 3.7	< 4.5	< 2.7	1,000
Total PCBs		< 0.071	< 0.081	< 0.066	< 0.074	< 0.090	< 0.055	1
pH		8.35	7.77	7.11	7.83	8.58	7.98	NA

Notes:  
 Cleanup objectives were derived from Illinois Environmental Protection Agency Section 742 Appendix B-Table B: Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties.

<sup>1)</sup> NA indicates not applicable, cleanup objectives have not been established for these parameters.

<sup>2)</sup> Results are shown as totals, therefore the soil component of the groundwater ingestion exposure route has not been considered.

**Figure 3**  
**Surface Soil Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Powertron Generating Station**  
**Route 28 Manteno Road**  
**Pekin, Illinois**

Parameters	S-1 497418 10/8/98	S-2 497419 10/8/98	S-3 497420 10/8/98	S-4 497421 10/8/98	S-5 497422 10/8/98	S-6 497423 10/8/98	S-7 497424 10/8/98	IEPA Soil Cleanup Objectives
BTEX								
Benzene	< 0.005	< 0.008	< 0.008	< 0.008	< 0.008	< 0.005	< 0.005	0.03
Toluene	< 0.005	< 0.008	< 0.008	< 0.008	< 0.008	< 0.005	< 0.005	12
Ethyl Benzene	< 0.005	< 0.008	< 0.008	< 0.008	< 0.008	< 0.005	< 0.005	13
Total Xylenes	< 0.005	< 0.008	< 0.008	< 0.008	< 0.008	< 0.005	< 0.005	180
TPH								
Gasoline	< 545	< 310	< 119	< 279	< 63	< 510	< 505	NA <sup>m</sup>
Diesel	< 545	< 310	< 119	< 279	< 63	< 510	< 505	NA
Oil	72,700	5,150	782	5,460	448	21,600	19,400	NA
FNAs								
Acenaphthene	< 0.022	2.1	0.31	< 1.1	4.8	< 0.020	< 0.020	570
Acenaphthylene	< 0.022	< 0.025	< 0.024	< 1.1	< 0.025	< 0.020	< 0.020	NA
Anthracene	< 0.044	3.6	0.52	< 2.2	7.3	0.12	< 0.040	12,000
Benzo(a)anthracene	0.47	7.4	1.2	< 1.1	14	1.3	< 0.010	2
Benzo(a)pyrene	< 0.011	7.2	1.2	< 1.1	10	0.27	< 0.010	0.8
Benzo(b)fluoranthene	< 0.011	3.7	0.58	< 1.1	4.5	0.19	< 0.010	5
Benzo(g,h,i)perylene	< 0.044	5.8	0.89	< 2.2	7.7	0.38	< 0.040	NA
Benzo(k)fluoranthene	< 0.011	3.5	0.61	< 1.1	4.3	0.17	< 0.010	49
Chrysene	< 0.033	8.4	1.4	< 1.7	11	0.57	< 0.030	160
Dibenz(a,h)anthracene	< 0.011	0.94	0.15	< 1.1	1.1	< 0.010	< 0.010	0.8
Fluoranthene	0.8	21	3.2	< 1.1	38	1.2	< 0.020	4,300
Fluorene	0.38	2.5	0.29	< 1.1	5	0.42	0.052	560
Indeno(1,2,3-c,d)pyrene	< 0.011	3.8	0.56	< 1.1	5.2	< 0.010	< 0.010	8
Naphthalene	< 0.027	0.35	< 0.030	< 1.3	0.77	< 0.026	< 0.025	84
Phenanthrene	0.86	1.6	2.4	< 2.2	36	0.34	< 0.040	NA
Pyrene	1.1	1.9	2.9	< 1.1	31	1.8	0.09	4,200
RCRA Metals <sup>m</sup>								
Arsenic	3.9	7.4	5.2	4.9	14	3.9	5.7	3
Barium	110	682	110	179	478	143	293	14,000
Cadmium	2.2	7.3	3.5	7.8	3.1	0.89	0.7	200
Chromium	16	45	17	21	60	15	7	420
Lead	21	71	51	658	327	37	6.7	400
Mercury	< 0.044	0.5	< 0.048	< 0.045	0.36	< 0.041	< 0.040	61
Selenium	< 0.27	0.82	< 0.30	< 0.28	0.53	0.32	0.32	1,000
Silver	< 2.2	< 2.5	< 2.4	< 2.2	< 2.5	2.7	2.8	1,000
Total PCBs	< 0.044	0.083	0.086	0.088	0.12	< 0.041	< 0.040	1
pH	7.79	8.23	7.81	5.93	8.34	9.32	9.42	NA



STATE OF ILLINOIS  
**Surface Soil Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Powerlon Generating Station**  
**Route 29 Mantlino Road**  
**Pekin, Illinois**

Parameters	S-9 497426 10/8/98	S-10 497427 10/8/98	S-11 497428 10/8/98	S-12 497429 10/8/98	S-14 497430 10/8/98	S-16 497435 10/8/98	S-17 497436 10/8/98	IEPA Soil Cleanup Objectives
<b>BTEX</b>								
Benzene	< 0.009	< 0.007	< 0.008	< 0.006	< 0.006	< 0.008	< 0.009	0.03
Toluene	< 0.009	< 0.007	< 0.008	< 0.006	< 0.006	< 0.008	< 0.009	12
Ethyl Benzene	< 0.009	< 0.007	< 0.008	< 0.006	< 0.006	< 0.008	< 0.009	13
Total Xylenes	< 0.009	< 0.007	< 0.008	< 0.006	< 0.006	< 0.008	< 0.009	150
<b>TPH</b>								
Gasoline	< 90	< 66	< 57	< 56	< 62	251	257	NA
Diesel	< 90	< 66	< 57	< 56	< 62	< 78	< 86	NA
Oil	1,900	89	670	1,330	323	3,460	3,070	NA
<b>PNAs</b>								
Acenaphthene	4.3	0.055	< 0.023	0.31	0.04	< 0.031	< 0.034	570
Acenaphthylene	< 0.036	0.054	< 0.023	< 0.022	< 0.025	< 0.031	< 0.034	NA
Anthracene	8.5	0.14	< 0.045	0.53	0.12	< 0.063	< 0.068	12,000
Benzo(a)anthracene	18	0.29	< 0.011	1.2	0.34	< 0.016	< 0.017	2
Benzo(a)pyrene	20	0.51	0.16	1.7	0.39	3	< 0.017	0.8
Benzo(b)fluoranthene	9.2	0.22	0.12	0.72	0.2	1.3	1.7	5
Benzo(g,h,i)perylene	15	0.12	< 0.045	1.1	0.14	< 0.063	< 0.068	NA
Benzo(k)fluoranthene	8	0.22	< 0.011	0.81	0.15	< 0.016	< 0.017	49
Chrysene	2.2	0.43	0.12	1.5	0.36	1.7	< 0.051	160
Dibenz(a,h)anthracene	2.7	0.051	< 0.011	0.093	0.022	0.2	< 0.017	0.8
Fluoranthene	49	0.71	0.14	3.7	0.68	0.97	0.51	4,300
Fluorene	4.2	0.068	< 0.023	0.33	0.036	< 0.031	< 0.034	660
Indeno(1,2,3-c,d)pyrene	10	0.13	< 0.011	0.67	0.14	< 0.016	< 0.017	8
Naphthalene	< 0.045	0.054	< 0.028	0.033	< 0.031	< 0.039	< 0.043	84
Phenanthrene	32	0.82	0.15	2.1	0.56	0.82	0.72	NA
Pyrene	43	0.81	0.17	3.1	0.65	2	0.7	4,200
<b>RCRA Metals</b>								
Arsenic	3.4	9.7	5.5	9.3	11	4.4	3.8	3
Barium	632	618	307	831	248	831	805	14,000
Cadmium	2.7	2.5	2.7	10	2.2	2.4	< 0.86	200
Chromium	11	60	14	70	37	6.3	7.7	420
Lead	100	37	125	831	149	27	22	400
Mercury	0.14	0.14	0.1	0.12	0.11	0.22	0.1	61
Selenium	< 0.45	< 0.33	0.3	0.31	< 0.31	< 0.39	< 0.43	1,000
Silver	< 3.6	< 2.6	< 2.3	< 2.2	< 2.5	< 3.1	< 3.4	1,000
<b>Total PCBs</b>	< 0.072	< 0.053	< 0.045	0.074	< 0.050	< 0.063	< 0.068	1
<b>pH</b>	7.66	8.64	8.33	8.70	8.20	7.24	7.70	NA

**Surface Soil Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Powertron Generating Station**  
**Route 29 Mantino Road**  
**Pekin, Illinois**

Parameters	S-18 497437 10/8/98	S-19 497438 10/8/98	S-20 497439 10/8/98	S-21 497440 10/8/98	S-22 497441 10/8/98	S-23 497442 10/8/98	S-24 497443 10/8/98	S-25 497444 10/8/98	IEPA Soil Cleanup Objectives
<b>BTEX</b>									
Benzene	< 0.01	< 0.009	< 0.005	< 0.005	< 0.007	< 0.005	< 0.008	< 0.005	0.03
Toluene	< 0.01	< 0.009	< 0.005	< 0.005	< 0.007	< 0.005	< 0.008	< 0.005	12
Ethyl Benzene	< 0.01	< 0.009	< 0.005	< 0.005	0.019	< 0.005	< 0.008	< 0.005	13
Total Xylenes	< 0.01	< 0.009	< 0.005	< 0.005	0.016	< 0.005	< 0.008	< 0.005	150
<b>TPH</b>									
Gasoline	232	< 81	< 53	< 538	1,490	2,350	< 81	< 212	NA
Diesel	< 110	4,930	< 53	< 538	< 289	< 522	< 81	< 212	NA
Oil	4,060	< 91	1,020	27,200	28,100	30,100	1,050	4,420	NA
<b>PNAs</b>									
Acenaphthene	< 0.043	< 0.036	< 0.021	< 0.089	< 0.12	< 0.087	< 0.032	< 0.088	570
Acenaphthylene	< 0.043	< 0.036	< 0.021	< 0.089	< 0.12	< 0.087	< 0.032	< 0.088	NA
Anthracene	< 0.086	< 0.073	< 0.042	< 0.18	0.81	< 0.18	< 0.065	0.41	12,000
Benzo(a)anthracene	< 0.021	< 0.018	< 0.011	< 0.045	< 0.061	< 0.044	< 0.016	0.6	2
Benzo(a)pyrene	0.75	< 0.018	< 0.011	< 0.045	< 0.061	< 0.044	< 0.016	0.43	0.8
Benzo(b)fluoranthene	0.62	< 0.018	< 0.011	< 0.045	< 0.061	< 0.044	< 0.016	0.33	5
Benzo(g,h,i)perylene	< 0.086	< 0.073	< 0.042	< 0.18	< 0.25	< 0.18	< 0.065	0.3	NA
Benzo(k)fluoranthene	< 0.021	< 0.018	< 0.011	< 0.045	< 0.061	< 0.044	< 0.016	0.15	49
Chrysene	0.97	< 0.055	< 0.032	< 0.13	0.59	< 0.13	0.26	0.6	160
Dibenzo(a,h)anthracene	< 0.021	< 0.018	< 0.011	< 0.045	< 0.061	< 0.044	< 0.016	< 0.044	0.8
Fluoranthene	0.86	0.64	< 0.021	< 0.089	1.3	< 0.087	0.19	1.7	4,300
Fluorene	< 0.043	< 0.036	< 0.021	< 0.089	0.84	< 0.087	0.073	0.41	560
Indeno(1,2,3-c,d)pyrene	< 0.021	< 0.018	< 0.011	< 0.045	< 0.061	< 0.044	< 0.016	0.18	8
Naphthalene	< 0.054	< 0.045	< 0.027	< 0.11	< 0.14	< 0.10	< 0.040	< 0.11	84
Phenanthrene	0.69	0.65	< 0.042	< 0.18	1.1	< 0.18	0.16	1.3	NA
Pyrene	1.4	1.8	< 0.021	< 0.089	< 0.12	< 0.087	0.84	1.7	4,200
<b>RCRA Metals</b>									
Arsenic	2.8	6.9	5	6.1	8.1	1.9	9.9	3.2	3
Barium	665	818	62	204	863	460	549	212	14,000
Cadmium	2.4	2.7	1.7	0.72	12	0.78	3.4	1.5	200
Chromium	24	20	6.4	24	188	41	61	30	420
Lead	279	44	8.6	40	291	25	291	43	400
Mercury	0.11	0.083	< 0.042	< 0.043	0.14	0.043	0.21	< 0.042	61
Selenium	< 0.54	< 0.45	< 0.27	< 0.27	0.87	0.26	0.42	< 0.26	1,000
Silver	< 4.3	< 3.6	< 2.1	< 2.2	3.6	< 2.1	< 3.2	< 2.1	1,000
<b>Total PCBs</b>	1.2	< 1.5	< 0.042	< 0.043	1.71	< 0.10	< 3.9	0.26	1
pH	8.15	7.69	8.87	6.88	7.53	6.54	7.59	7.30	NA

**Notes:**

Cleanup objectives were derived from Illinois Environmental Protection Agency Section 742 Appendix B-Table B: Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties.

<sup>(1)</sup> NA indicates not applicable, cleanup objectives have not been established for these parameters.

<sup>(2)</sup> Results are shown as total, therefore the soil component of the groundwater ingestion exposure route has not been considered.

**Table 4**  
**Subsurface Soil Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Powertron Generating Station**  
**Route 29 Mantino Road**  
**Pekin, Illinois**

	Page 1 of 4							
Parameters	B-1 496979 10/6/98 16-20	B-4 496980 10/6/98 12-16	B-5 496981 10/6/98 0-4	B-6 496982 10/6/98 0-4	B-9 496983 10/6/98 0-4	B-10 496984 10/6/98 0-4	B-11 489985 10/6/98 0-4	IEPA Soil Cleanup Objectives
BTEX								
Benzene	< 0.006	< 0.005	< 0.005	< 0.006	< 0.005	< 0.005	< 0.005	0.03
Toluene	< 0.006	< 0.005	< 0.005	< 0.006	< 0.005	< 0.005	< 0.005	12
Ethyl Benzene	< 0.006	< 0.005	< 0.005	< 0.006	< 0.005	< 0.005	< 0.005	13
Total Xylenes	< 0.006	< 0.005	< 0.005	< 0.006	< 0.005	< 0.005	< 0.005	160
PNAs								
Acenaphthene	< 0.023	< 0.020	2.8	0.12	< 0.022	< 0.021	< 0.022	570
Acenaphthylene	< 0.023	< 0.020	< 1.3	< 0.023	< 0.022	< 0.021	< 0.022	NA <sup>(b)</sup>
Anthracene	< 0.045	< 0.041	8.1	0.19	< 0.14	< 0.042	< 0.043	12,000
Benzo(a)anthracene	< 0.0030	< 0.0027	11	0.14	0.042	0.045	< 0.012	2
Benzo(a)pyrene	< 0.0052	< 0.0047	11	0.12	0.021	0.018	< 0.0050	0.8
Benzo(b)fluoranthene	< 0.0041	< 0.0037	10	0.13	0.03	0.016	< 0.0039	5
Benzo(g,h,i)perylene	< 0.045	< 0.041	10	0.088	< 0.043	0.016	< 0.043	NA
Benzo(k)fluoranthene	< 0.0039	< 0.0035	5.5	0.084	0.015	0.0088	< 0.0037	49
Chrysene	< 0.03	< 0.03	9.3	0.14	< 0.03	< 0.03	< 0.03	160
Dibenzo(a,h)anthracene	< 0.007	< 0.006	2.1	0.016	< 0.006	< 0.006	< 0.007	0.8
Fluoranthene	< 0.023	< 0.020	28	0.53	< 0.12	< 0.089	< 0.022	4,300
Fluorene	< 0.023	< 0.020	3.5	0.14	< 0.022	< 0.021	< 0.022	560
Indeno(1,2,3-c,d)pyrene	< 0.0088	< 0.0088	7.2	0.076	0.024	0.014	< 0.0093	8
Naphthalene	< 0.028	< 0.026	< 1.6	0.26	0.044	< 0.026	< 0.027	84
Phenanthrene	< 0.045	< 0.041	22	0.51	< 0.043	< 0.042	< 0.043	NA
Pyrene	< 0.023	< 0.020	22	0.37	0.049	0.027	< 0.022	4,200
RCRA Metals <sup>(a)</sup>								
Arsenic	6.1	6	11	48	12	5.4	6.4	3
Barium	26	13	314	222	98	232	228	14,000
Cadmium	< 0.57	< 0.51	0.83	7.4	1.1	0.94	0.8	200
Chromium	6.9	5.5	17	140	26	137	98	420
Lead	9.3	7.6	25	48	78	31	27	400
Mercury	< 0.045	< 0.041	0.13	< 0.047	< 0.043	< 0.042	0.39	61
Selenium	< 1.4	< 1.2	0.39	1.9	< 0.27	0.47	0.29	1,000
Silver	< 2.3	< 2.0	< 2.2	< 2.3	< 2.2	< 2.1	< 2.2	1,000
Total PCBs	< 0.045	< 0.041	0.05	< 0.047	< 0.043	< 0.042	< 0.043	1
pH	9.04	9.59	8.70	7.86	8.83	8.89	8.88	NA

**Table 4**  
**Subsurface Soil Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Poweron Generating Station**  
**Route 29 Mantino Road**  
**Pekin, Illinois**

	Page 2 of 4							
	B-12	B-13	B-14	B-16	B-16	B-17	B-18	IEPA Soil Cleanup Objectives
	496986	496987	496988	496992	496993	496994	496989	
	10/6/98	10/6/98	10/6/98	10/7/98	10/7/98	10/7/98	10/6/98	
	0-4	12-16	16-20	0-4	0-4	0-4	0-4	
	Sample Depth (feet)							
	Sample I.D.							
	Lab I.D.							
Parameters								
BTEX								
Benzene	< 0.005	< 0.006	< 0.007	< 0.005	< 0.005	< 0.008	< 0.005	0.03
Toluene	< 0.005	< 0.006	< 0.007	< 0.005	< 0.005	< 0.006	< 0.005	12
Ethyl Benzene	< 0.005	< 0.006	< 0.007	< 0.005	< 0.005	< 0.006	< 0.005	13
Total Xylenes	< 0.005	< 0.006	< 0.007	< 0.005	< 0.005	< 0.006	< 0.005	150
PNA's								
Acenaphthene	< 0.021	< 0.023	< 0.029	< 0.022	< 0.021	< 0.09	< 0.1	570
Acenaphthylene	< 0.043	< 0.047	< 0.059	< 0.043	< 0.042	< 0.089	< 0.1	NA
Anthracene	< 0.0028	< 0.040	< 0.0038	< 0.0028	< 0.0027	0.22	< 0.2	12,000
Benzo(a)anthracene	< 0.0049	< 0.0054	< 0.0067	< 0.0050	< 0.0049	0.8	0.13	2
Benzo(a)pyrene	< 0.0038	< 0.0042	< 0.0053	< 0.0039	< 0.0038	0.65	0.093	0.8
Benzo(b)fluoranthene	< 0.043	< 0.047	< 0.059	< 0.043	< 0.042	0.76	0.19	5
Benzo(k)fluoranthene	< 0.0036	< 0.0040	< 0.0050	< 0.0037	< 0.0036	0.53	< 0.2	NA
Chrysene	< 0.03	< 0.04	< 0.04	< 0.03	< 0.03	0.31	0.079	49
Dibenzof(a,h)anthracene	< 0.006	< 0.007	< 0.009	< 0.007	< 0.006	0.65	< 0.16	160
Fluoranthene	< 0.021	< 0.023	< 0.028	< 0.022	< 0.021	0.1	< 0.03	0.8
Fluorene	< 0.021	< 0.023	< 0.029	< 0.022	< 0.021	1.2	0.27	4,300
Indeno(1,2,3-c,d)pyrene	< 0.0092	< 0.010	< 0.013	< 0.0083	< 0.0081	< 0.09	< 0.1	560
Naphthalene	< 0.027	< 0.029	< 0.037	< 0.027	< 0.026	0.45	0.13	8
Phenanthrene	< 0.043	< 0.047	< 0.059	< 0.043	< 0.042	< 0.1	< 0.1	84
Pyrene	< 0.021	< 0.023	< 0.029	< 0.022	< 0.021	0.33	< 0.2	NA
RCRA Metals								
Arsenic	6.7	7.4	25	10	8.6	47	24	3
Barium	29	140	130	33	33	55	89	14,000
Cadmium	< 0.53	< 0.58	1.8	< 0.54	< 0.53	1.1	1.3	200
Chromium	8.4	16	40	7.5	8.2	10	21	420
Lead	10	20	28	11	14	13	26	400
Mercury	0.33	< 0.047	< 0.059	< 0.043	< 0.042	< 0.045	< 0.044	61
Selenium	< 0.27	< 0.28	0.4	< 0.27	< 0.26	0.29	0.43	1,000
Silver	< 2.1	< 2.3	< 2.9	< 2.2	< 2.1	< 2.2	< 2.2	1,000
Total PCBs	< 0.043	< 0.047	< 0.059	< 0.043	< 0.042	< 0.045	< 0.044	1
pH	9.02	7.79	8.52	9.29	9.21	9.49	8.62	NA

**Table 4**  
**Subsurface Soil Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Powerton Generating Station**  
**Route 29 Mantino Road**  
**Pekin, Illinois**

Parameters	B-19 496996 10/7/98 0-4	B-21 496996 10/7/98 0-4	B-22 496997 10/7/98 16-20	B-23 496998 10/7/98 0-4	B-25 496999 10/7/98 8-12	B-26 497000 10/7/98 16-20	B-27 497001 10/7/98 12-16	IEPA Soil Cleanup Objectives
BTEX								
Benzene	< 0.006	< 0.006	< 0.007	< 0.005	< 0.008	< 0.006	< 0.007	0.03
Toluene	< 0.008	< 0.008	< 0.007	< 0.005	< 0.008	< 0.006	< 0.007	12
Ethyl Benzene	< 0.006	< 0.006	< 0.007	< 0.005	< 0.006	< 0.006	< 0.007	13
Total Xylenes	< 0.006	< 0.006	< 0.007	< 0.005	< 0.006	< 0.006	< 0.007	160
PNAs								
Acenaphthene	< 0.22	< 0.45	< 0.028	< 0.43	< 0.024	< 0.025	< 0.28	670
Acenaphthylene	< 0.22	< 0.45	< 0.028	< 0.43	< 0.024	< 0.025	< 0.28	NA
Anthracene	< 0.45	< 0.90	< 0.055	< 0.87	< 0.048	< 0.050	< 0.55	12,000
Benzo(a)anthracene	0.66	< 2.0	< 0.0038	1.6	< 0.062	< 0.0033	< 1.3	2
Benzo(a)pyrene	0.25	< 0.15	< 0.0064	0.61	< 0.055	< 0.0058	< 0.064	0.0
Benzo(b)fluoranthene	0.18	< 0.36	< 0.0050	0.57	< 0.011	< 0.0045	< 0.33	5
Benzo(g,h,i)perylene	< 0.45	< 0.90	< 0.055	< 0.87	< 0.048	< 0.050	< 0.55	NA
Benzo(k)fluoranthene	0.26	< 0.45	< 0.0047	0.33	< 0.013	< 0.0043	< 0.46	49
Chrysene	< 0.3	< 0.7	< 0.04	0.75	< 0.04	< 0.04	< 0.4	160
Dibenzo(a,h)anthracene	< 0.07	< 0.1	< 0.008	< 0.1	< 0.007	< 0.008	< 0.08	0.8
Fluoranthene	< 1.2	< 0.45	< 0.028	3	< 0.024	< 0.025	< 0.28	4,300
Fluorene	< 0.22	< 0.45	< 0.028	< 0.43	< 0.024	< 0.025	< 0.28	560
Indeno(1,2,3-c,d)pyrene	0.12	< 0.19	< 0.012	0.3	< 0.030	< 0.011	< 0.12	8
Naphthalene	0.64	< 0.56	< 0.035	1.2	< 0.030	< 0.031	< 0.35	84
Phenanthrene	0.93	< 0.90	< 0.055	2.5	< 0.048	< 0.050	< 0.55	NA
Pyrene	0.54	0.54	< 0.028	1.3	< 0.024	< 0.025	0.29	4,200
RCRA Metals								
Arsenic	14	25	11	177	7	16	6.1	3
Barium	135	854	110	141	178	70	61	14,000
Cadmium	1.5	0.65	< 0.69	4.3	1	< 0.63	< 0.69	200
Chromium	46	15	18	15	67	15	9.8	420
Lead	79	44	25	60	33	20	16	400
Mercury	0.48	0.088	< 0.055	0.072	< 0.048	< 0.050	< 0.055	61
Selenium	0.67	0.4	< 0.35	0.34	0.49	< 0.31	< 0.35	1,000
Silver	< 2.2	< 2.2	< 2.8	< 2.2	< 2.4	< 2.5	< 2.8	1,000
Total PCBs	< 0.045	< 0.045	< 0.055	< 0.043	< 0.048	< 0.050	< 0.055	1
pH	9.12	8.42	8.21	8.10	8.45	7.92	8.61	NA

**Notes:**  
 Cleanup objectives were derived from Illinois Environmental Protection Agency Section 742 Appendix B-Table B: Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties.

<sup>1)</sup> NA indicates not applicable, cleanup objectives have not been established for these parameters.  
<sup>2)</sup> Results are shown as totals, therefore the soil component of the groundwater ingestion exposure route has not been considered.

**Table 4**  
**Subsurface Soil Sampling**  
**Soil Analytical Results in Milligrams per Kilogram (mg/kg)**  
**Commonwealth Edison Company - Powerton Generating Station**  
**Route 29 Mantino Road**  
**Pekin, Illinois**

Parameters	B-30 497002 10/7/98 0-4	B-31 497003 10/7/98 0-4	B-32 497004 10/7/98 4-8	B-33 497005 10/7/98 16-20	B-34 497006 10/7/98 0-4	B-36 496990 10/6/98	B-36 496991 10/6/98 12-16	IEPA Soil Cleanup Objectives
BTEX								
Benzene	< 0.006	< 0.005	< 0.006	< 0.006	< 0.005	< 0.005	< 0.006	0.03
Toluene	< 0.006	< 0.005	< 0.006	< 0.006	< 0.005	< 0.005	< 0.006	12
Ethyl Benzene	< 0.006	< 0.005	< 0.006	< 0.006	< 0.005	< 0.005	< 0.006	13
Total Xylenes	< 0.006	< 0.005	< 0.006	< 0.006	< 0.005	< 0.005	< 0.006	160
PNAs								
Acenaphthene	< 0.023	< 0.021	< 0.023	< 0.022	< 0.021	< 0.022	< 0.025	670
Acenaphthylene	< 0.023	< 0.021	< 0.023	< 0.022	< 0.021	< 0.022	< 0.025	NA
Anthracene	< 0.045	< 0.042	< 0.046	< 0.044	< 0.042	< 0.044	< 0.050	12,000
Benzo(a)anthracene	0.026	0.021	< 0.0030	< 0.0029	< 0.0028	0.028	0.062	2
Benzo(a)pyrene	< 0.012	< 0.0049	< 0.0053	< 0.0051	< 0.0049	0.025	< 0.024	0.8
Benzo(b)fluoranthene	0.011	0.018	< 0.0041	< 0.0040	< 0.0038	0.022	< 0.015	6
Benzo(g,h,i)perylene	< 0.045	< 0.042	< 0.046	< 0.044	< 0.042	< 0.044	< 0.050	NA
Benzo(k)fluoranthene	0.01	< 0.020	< 0.0039	< 0.0038	< 0.0036	0.013	< 0.051	49
Chrysene	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.04	160
Dibenzo(a,h)anthracene	< 0.007	< 0.006	< 0.007	< 0.007	< 0.006	< 0.007	< 0.007	0.8
Fluoranthene	< 0.023	< 0.021	< 0.023	< 0.022	< 0.021	0.079	< 0.061	4,300
Fluorene	< 0.023	< 0.021	< 0.023	< 0.022	< 0.021	< 0.022	< 0.025	560
Indeno(1,2,3-c,d)pyrene	< 0.0098	0.017	< 0.0099	< 0.0096	< 0.0091	0.016	< 0.011	8
Naphthalene	< 0.028	< 0.026	< 0.029	< 0.028	< 0.026	< 0.027	0.036	84
Phenanthrene	< 0.045	< 0.042	< 0.046	< 0.044	< 0.042	0.054	0.076	NA
Pyrene	< 0.023	< 0.021	< 0.023	< 0.022	< 0.021	0.05	0.05	4,200
RCRA Metals								
Arsenic	36	4	6	2.3	3.3	10	12	3
Barium	76	61	50	23	169	39	175	14,000
Cadmium	1.1	< 0.53	< 0.57	< 0.56	< 1.0	< 0.55	0.85	200
Chromium	12	12	17	5.7	5.3	9.3	66	420
Lead	136	16	17	8	8.5	14	26	400
Mercury	< 0.045	< 0.042	< 0.046	< 0.044	< 0.042	< 0.044	0.079	61
Selenium	< 0.28	< 0.28	< 0.29	< 0.28	< 0.26	< 0.27	0.5	1,000
Silver	< 2.3	< 2.1	< 2.3	< 2.2	< 2.1	< 2.2	< 2.5	1,000
Total PCBs	< 0.045	< 0.042	< 0.046	< 0.044	< 0.042	< 0.044	< 0.050	1
pH	8.98	8.84	9.33	8.90	9.48	8.92	8.34	NA

NOTE:  
 Cleanup objectives were derived from Illinois Environmental Protection Agency Section 742 Appendix B-Table B: Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties.

\*\* NA indicates not applicable, cleanup objectives have not been established for these parameters.

\*\* Results are shown as totals, therefore the soil component of the groundwater ingestion exposure route has not been considered.

**Table 6**  
**Groundwater Sampling**  
**Groundwater Analytical Results in Milligrams per Liter (mg/l)**  
**Commonwealth Edison Company - Powertrain Generating Station**  
**Route 29 Mantino Road**  
**Pekin, Illinois**

Parameters	Sample I.D.	MW-1	MW-2 (B-12)	MW-3	MW-5	MW-6	MW-7 (B-33)	IEPA Groundwater (Class I) Cleanup Objectives
	Lab I.D.	501009	501010	501011	501005	501007	501008	
	Sample Date	11/2/98	11/2/98	11/2/98	11/2/98	11/2/98	11/2/98	
<b>BTEX</b>								
Benzene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.005
Toluene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	1.0
Ethyl Benzene	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.7
Total Xylenes	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	10.0
<b>PNAs</b>								
Acanaphthene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.42
Acanaphthylene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	NA <sup>11</sup>
Anthracene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	2.1
Benzo(a)anthracene	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00013
Benzo(a)pyrene	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	< 0.00023	0.0002
Benzo(b)fluoranthene	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00018
Benzo(g,h,i)perylene	< 0.00076	< 0.00076	< 0.00076	< 0.00076	< 0.00076	< 0.00076	< 0.00076	NA
Benzo(k)fluoranthene	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	< 0.00017	0.00017
Chrysenes	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0015
Dibenzo(a,h)anthracene	< 0.00030	< 0.00030	< 0.00030	< 0.00030	< 0.00030	< 0.00030	< 0.00030	0.0003
Fluoranthene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.28
Fluorene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.28
Indeno(1,2,3-c,d)pyrene	< 0.00043	< 0.00043	< 0.00043	< 0.00043	< 0.00043	< 0.00043	< 0.00043	0.00043
Naphthalene	0.00059	0.00059	0.00059	0.00059	0.00059	0.00059	0.00059	0.025
Phenanthrene	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	NA
Pyrene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.21
<b>RCRA Metals</b>								
Arsenic	< 0.0050	< 0.0050	< 0.0050	0.011	< 0.0050	< 0.0050	< 0.0050	0.05
Barium	0.113	0.097	0.195	0.195	0.069	0.047	0.021	2.0
Cadmium	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.006
Chromium	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.1
Lead	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0075
Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.002
Selenium	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.05
Silver	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.05
Total PCBs	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005
pH	6.92	7.30	6.65	7.14	7.23	6.94	6.94	NA
Specific Conductivity (mol)	154.7	83.4	124.7	108.2	75.4	58.1	58.1	NA
Temperature (C)	20.5	17.8	14.2	26.0	12.3	18.9	18.9	NA

Notes:  
 Cleanup objectives were derived from Illinois Environmental Protection Agency Section 742 Appendix B-Table E: Tier 1 Groundwater Remediation Objectives for the Groundwater Component of the Groundwater Ingestion Route

<sup>11</sup> NA indicates not applicable, cleanup objectives have not been established for these parameters.

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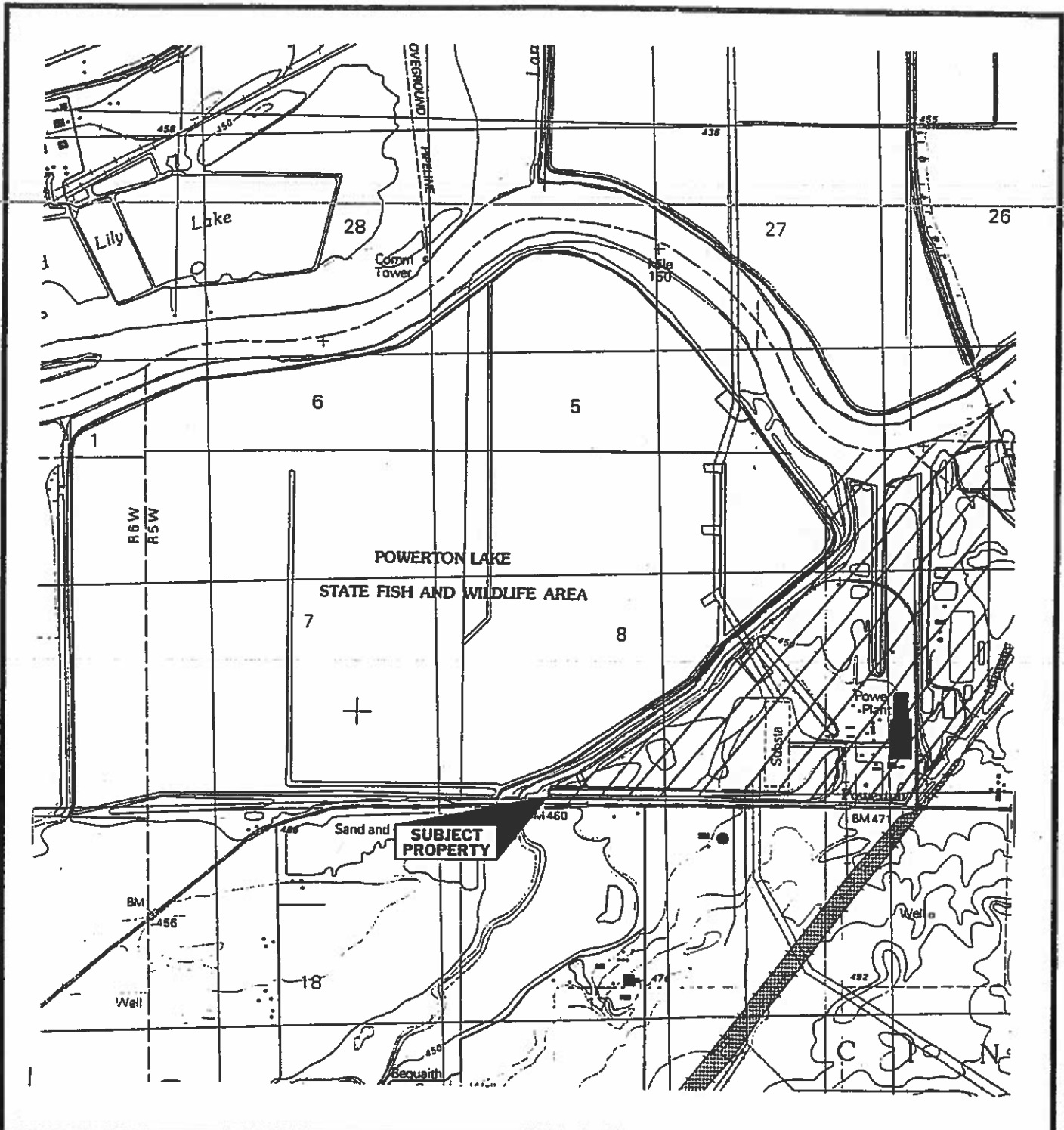
**FIGURES**

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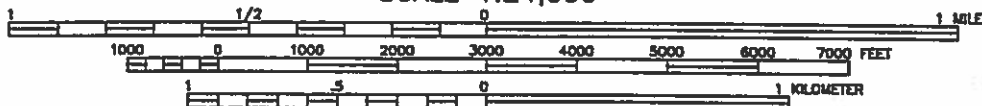
**Phase II Environmental Site Assessment  
Commonwealth Edison Company  
December 7, 1998**

**Powerton Generating Station  
Route 29 & Mantino Road  
Pekin, Illinois**





SCALE 1:24,000



Contour interval 5 feet

Dwg No: WALKEGANSL1



U.S.G.S.  
PEKIN, IL

**SITE LOCATION MAP**

**POWERTON GENERATING STATION  
ROUTE 29 + MANITO ROAD  
PEKIN, ILLINOIS**

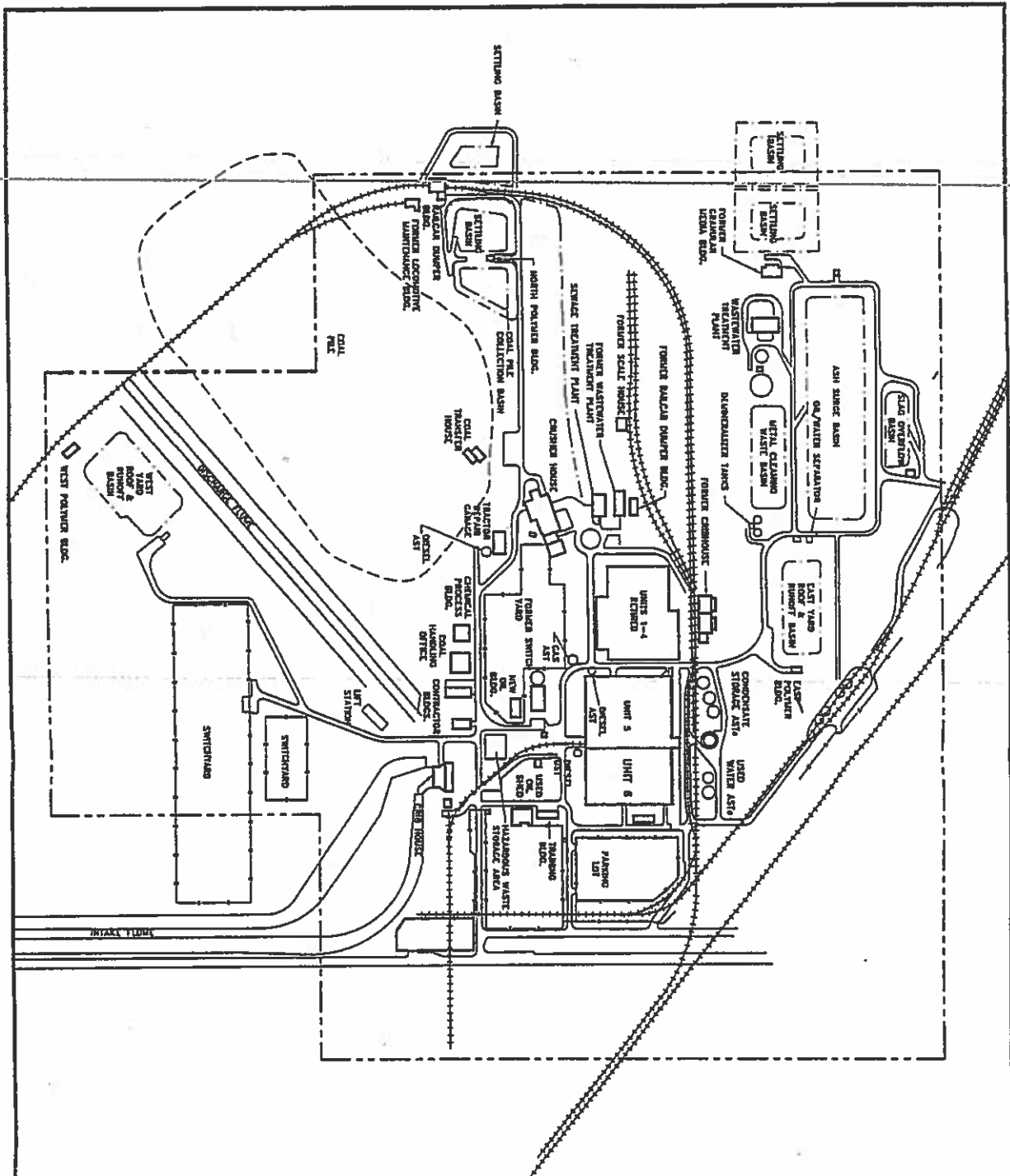
**FIGURE 1**

**COMMONWEALTH EDISON COMPANY**

**ENSR**

November 1998

File No: 1801-023-510



**LEGEND,**  
 - - - - - PROPERTY BOUNDARY  
 - - - - - BASIN BOUNDARY  
 - - - - - FENCE  
 + + + + + RAILROAD TRACK

**Note:**  
 \* All dimensions and locations are approximate.  
 Source:  
 \* ENSR field observations.

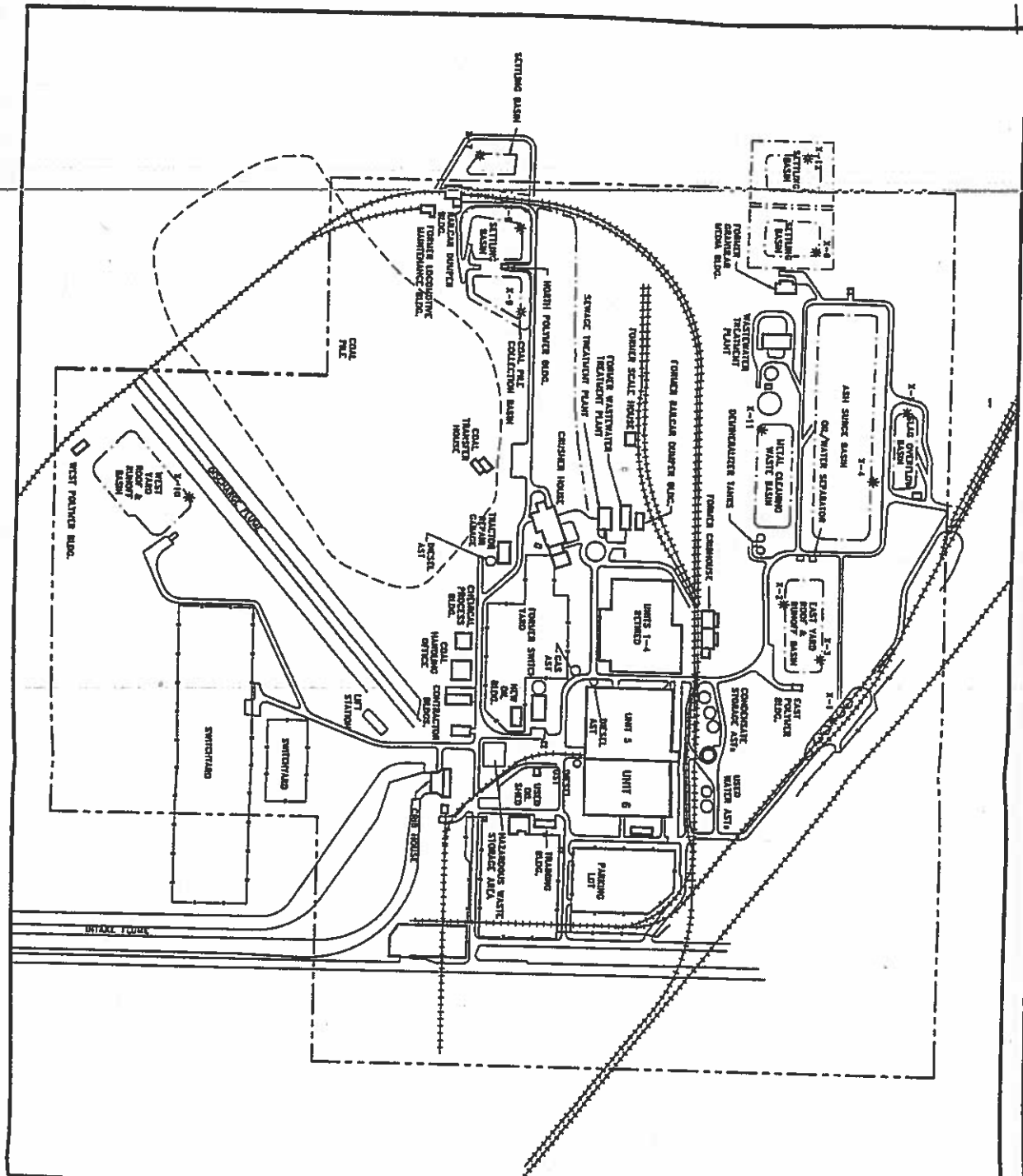
Drawn By:  
**POWERTON GENERATING STATION**  
**ROUTE 29 AND WANTO ROAD**  
**PEKIN, ILLINOIS**  
**COMMONWEALTH EDISON**  
 November 1988 File No: 1801-023-51

**SITE PLAN**

FIGURE 2

**ENSR**

NOT TO SCALE



**LEGEND**

- PROPERTY BOUNDARY
- BASIN BOUNDARY
- FENCE
- ++++ RAILROAD TRACK
- \* x-1 SEDIMENT SAMPLE

**Note:**  
 - All dimensions and locations are approximate.  
 Source:  
 • EHSR field observations.

POWERGEN GENERATING STATION  
 ROUTE 28 AND LAMON ROAD  
 FERRIS, ILLINOIS  
 COMMONWEALTH EDISON  
 November 1998  
 P/O No: 1801-023-310

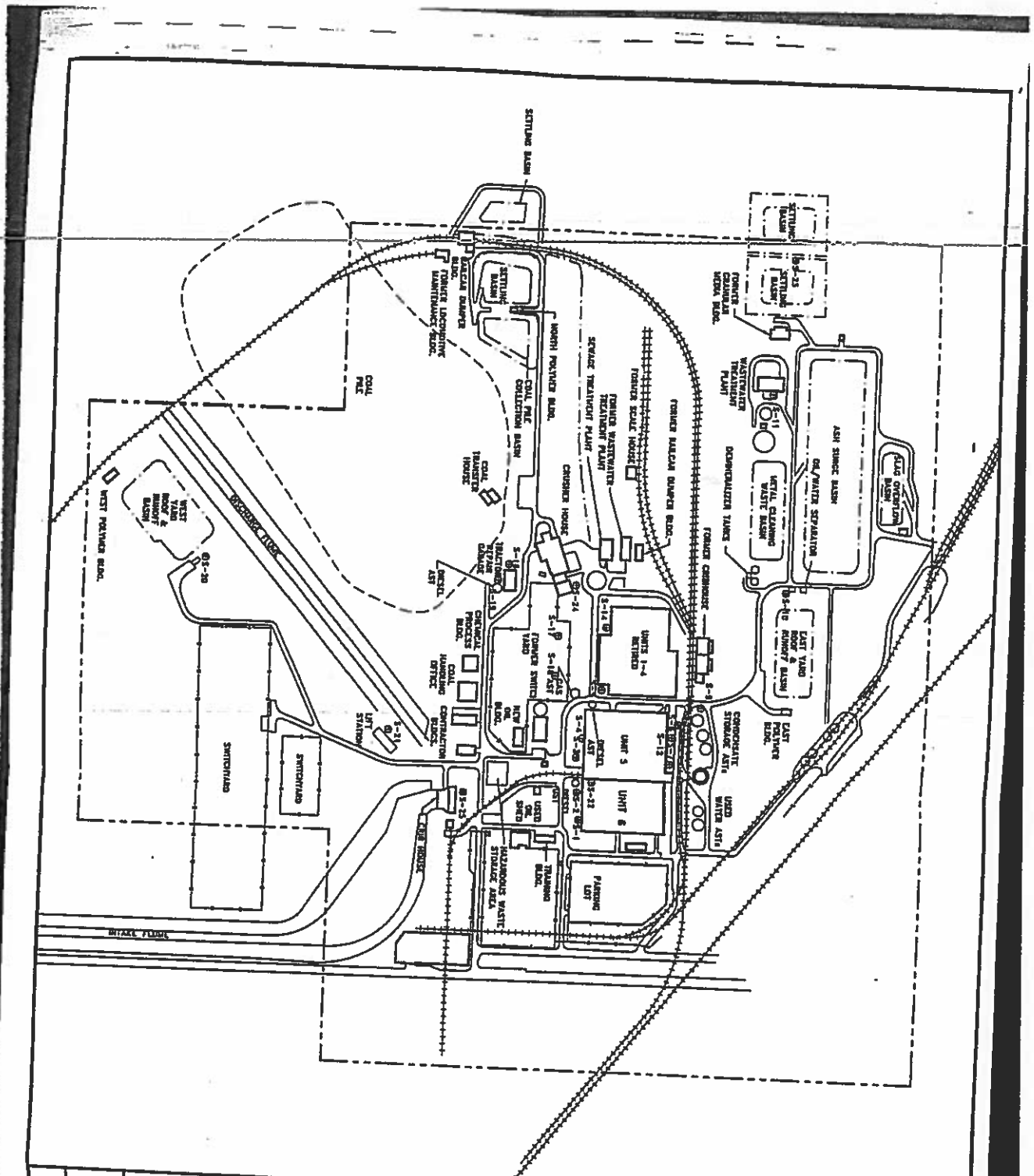
**SEDIMENT SAMPLING  
 SITE PLAN**



FIGURE 3

NOT TO SCALE





**LEGEND,**

- PROPERTY BOUNDARY
- - - - - BASIN BOUNDARY
- FENCE
- +++++ RAILROAD TRACK
- 0 5-1 SURFACE SOIL SAMPLING

**Notes:**

- All dimensions and locations are approximate.
- Source:
- ENSR field observations.

POWERTOWN GENERATING STATION  
 ROUTE 29 AND WARD ROAD  
 FESON LINDOS  
 COMMONWEALTH EDISON  
 November 1995  
 File No. 1801-023-510

Fig No. 211

**SURFACE SOIL SAMPLING SITE PLAN**

FIGURE 4

NOT TO SCALE

**ENSR**

**LEGEND:**

- PROPERTY BOUNDARY
- - - BASH BOUNDARY
- FENCE
- ++++ RAILROAD TRACK
- ◆ MW-1 MONITORING WELL
- B-4 SOIL BORING

**Notes:**  
 • All dimensions and locations are approximate.  
**SKETCH:**  
 • ENSR field observations.

Fig. No. 1001-023-510

POWERION GENERATING STATION  
 ROUTE 28 AND WANTO ROAD  
 FERN, ILLINOIS  
 COMMONWEALTH EDISON  
 November 1988 File No: 1001-023-510

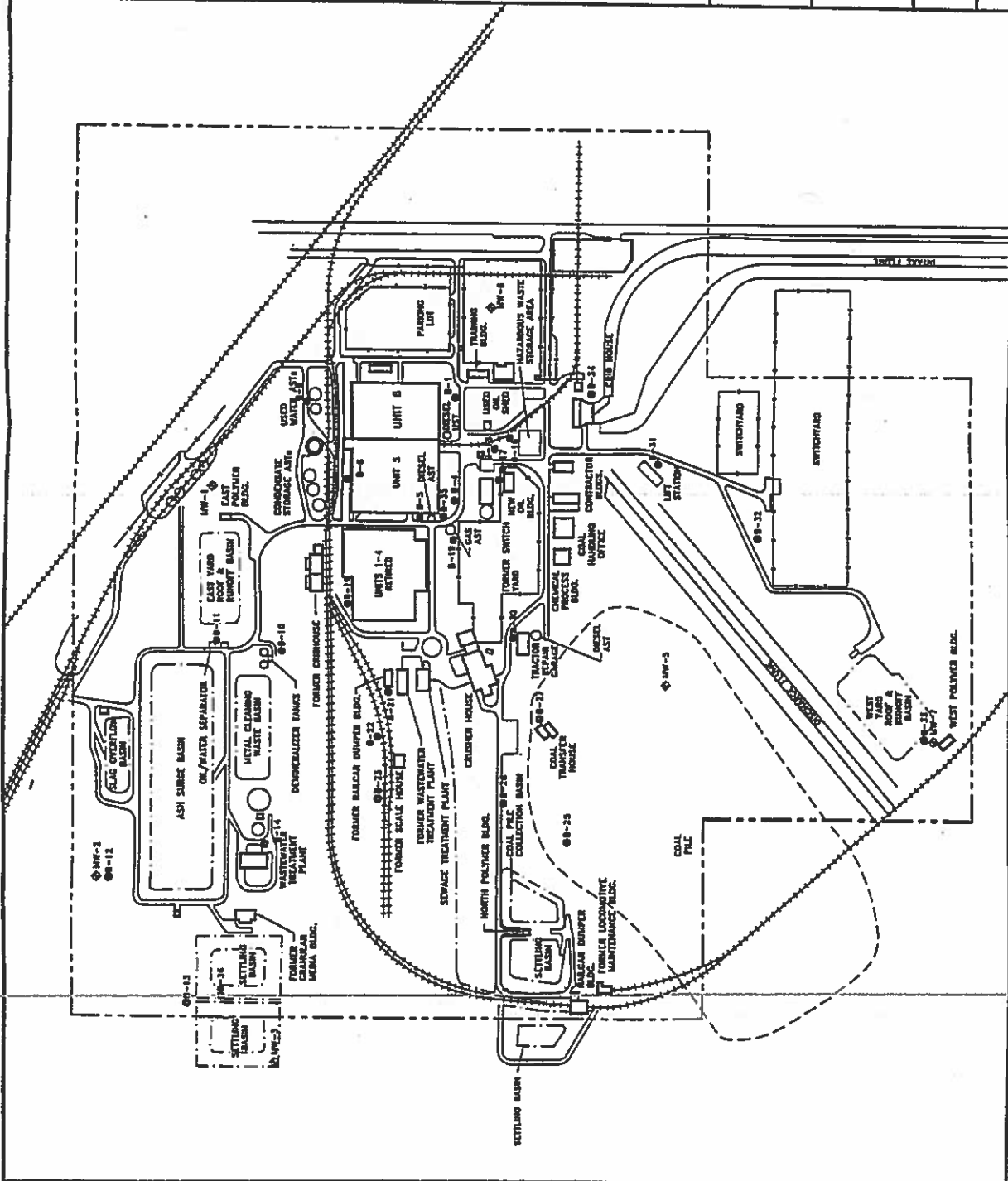
# SOIL BORING/ MONITORING WELL SITE PLAN

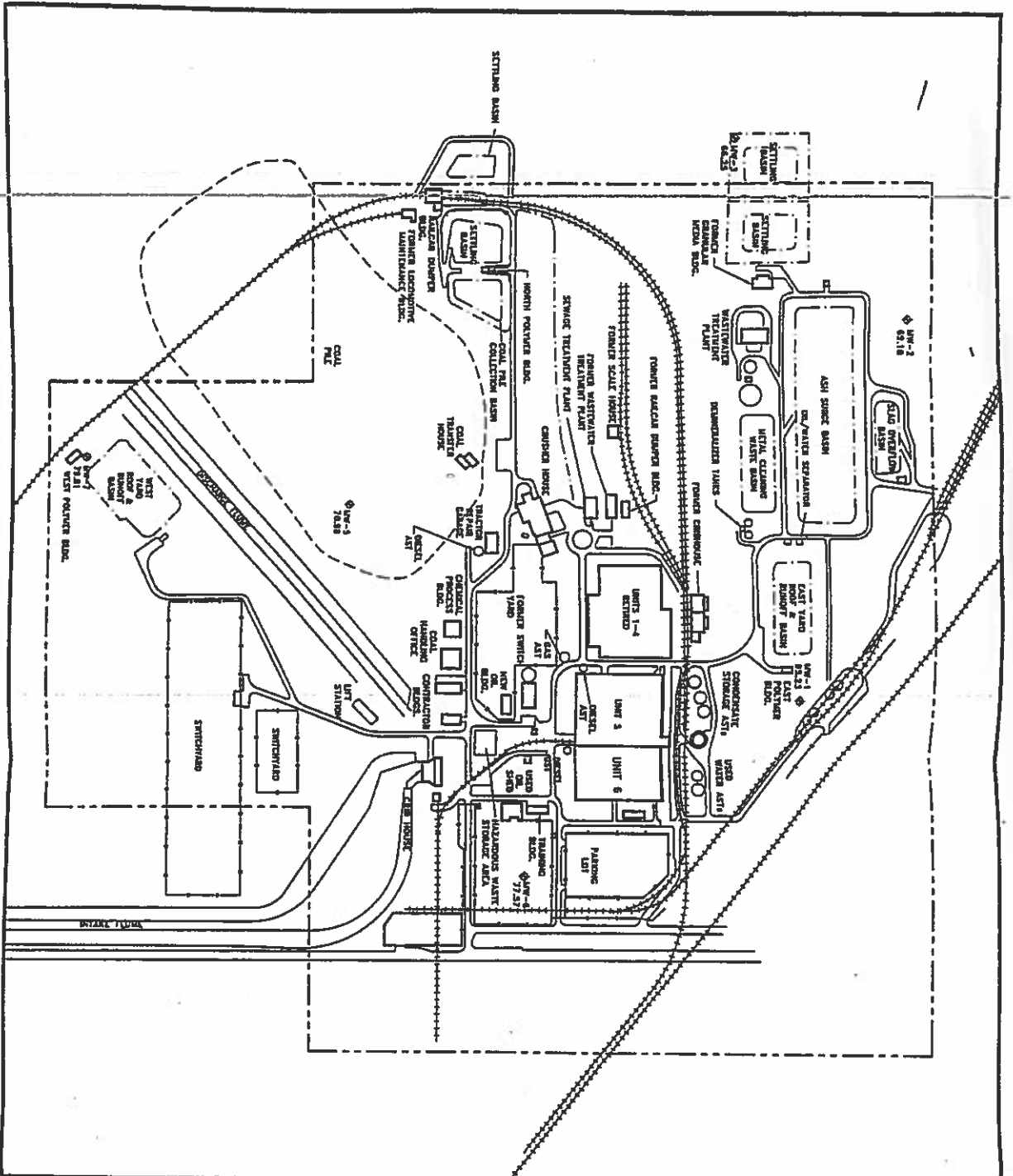
FIGURE 5



**ENSR**

NOT TO SCALE





**LEGEND.**

- PROPERTY BOUNDARY
- - - - - BASIN BOUNDARY
- FENCE
- +++++ RAILROAD TRACK
- ⊕ W-1 7333 MONITORING WELL WITH GROUND WATER ELEVATION IN FEET

Note:  
 \* All dimensions and locations are approximate.  
 Sources:  
 \* ENSR field observations.

POWERTON GENERATING STATION  
 ROUTE 29 AND MARINO ROAD  
 FERRIS, LINDS  
 COMMONWEALTH EDISON  
 November 1998 File No: 1801-023-510

**GROUNDWATER ELEVATION MAP**

FIGURE 6

**ENSR**

NOT TO SCALE

---

**APPENDIX A**

**Boring Logs and Monitoring Well Construction Diagrams**

**Phase II Environmental Site Assessment  
Commonwealth Edison Company  
December 7, 1998**

**Powerton Generating Station  
Route 29 & Mantino Road  
Pekin, Illinois**



Project No: 1801-023-510

Log of Borehole B-1

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
1							
2		<i>FILL</i> Dark brown coarse sand, moist, some gravel	1	GP	100	60	
3							
4							
5							
6		<i>FILL</i> Same as above	2	GP	100	52	
7							
8							
9							
10		<i>FINES</i> Dark brown silty sand, moist to wet, trace gravel	3	GP	50	50	
11							
12							
13							
14		<i>FINES</i> Brown fine to coarse sand, moist, loose, trace gravel					
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/6/98

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Project No: 1801-023-510

Log of Borehole B-1

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16	[Symbol]		4	GP	50	87	
17		18	Same as above, wet at 18'	5	GP	50	112
19	[Symbol]	20	End of Borehole				
21		22					
23	[Symbol]						
24		25					
26	[Symbol]						
27		28					
29	[Symbol]						
30							

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/6/98

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Project No: 1801-023-510

Log of Borehole B-4

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
0		2" Asphalt 10" Fill					
1		Fill					
1		Dark brown to black coarse sand, loose, moist, trace gravel	1	GP	100	35	
2		Sand					
2		Brown coarse sand, dense moist, trace gravel					
3		Sand					
3		Brown coarse sand, loose, gravel present.	2	GP	70	44	
4		Sand					
4		Brown sand, fine, loose, some gravel	3	GP	100	50	
5		Same As Above					
6		Same As Above					
7		Same As Above					
8		Same As Above					
9		Same As Above					
10		Same As Above					
11		Same As Above					
12		Same As Above					
13		Same As Above					
14		Same As Above					
15		Same As Above					
							12 - 16 PNAs/BETX/pH/PCBS/ RCRA Metals

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/6/98

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Project No: 1801-023-510

Log of Borehole B-4

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16	[Symbol: Stippled pattern with small circles]		4	GP	100	87	
17							
18		Same As Above With more gravel	5	GP	100	24	
19							
20		End of Borehole					
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/6/98

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Project No: 1801-023-510

Log of Borehole B-5

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
1		<i>Sand</i> Dark brown coarse sand, moist, trace gravel, black staining	1	GP	70	150	
2		<i>Sand</i> 6" Same as above Brown fine (silty) sand, loose, moist	2	GP	82	76	
3		<i>Same As Above</i>	3	GP	75	29	
4		<i>Same As Above</i>					

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/6/98

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Project No: 1801-023-510

Log of Borehole B-5

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16	[Symbol: Dotted pattern]		4	GP	82	45	
17							
18		<i>Sand</i> Brown silty sand, loose, moist, with 2" lenses of gray silty clay at 17' and 19.5'	5	GP	50	22	
19							
20		End of Borehole					
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/6/98

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Project No: 1801-023-510

Log of Borehole B-6

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					BTEX, PNA, PCB pH, RCRA Metals
0		Ballast					
1		Silty Clay 12" Light brown, silty clay, stiff, dry	1	SS	100	110	
2		Silty Clay Dark brown-gray silty clay, stiff, moist to wet					
4		Sand 2" Brown coarse sand, loose, moist	2	SS	75	25	
5		Silty Clay Dark brown-gray, silty clay, stiff, wet					
7		Sand Brown coarse sand, moist, loose					
8		End of Borehole					

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/6/98

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Project No: 1801-023-510

Log of Borehole B-9

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
1		<i>Sand</i> 2' Coal 2' Brown silty sand, some coarse material, loose	1	GP	100	110	
2		4" Same as above 2" Coal 12" Limestone 6" Black silty clay, stiff, wet Brown coarse sand, loose, moist, trace gravel	2	GP	75	54	
3		<i>Sand</i> Light brown fine sand, moist, loose.	3	GP	72	26	
4		<i>Same As Above</i>					

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/6/98

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Log of Borehole B-9

Project No: 1801-023-510

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16	[Dotted Pattern]		4	GP	71	64	
17							
18		Same As Above	5	GP	68	28	
19							
20	6	End of Borehole					
21							
22							
23	7						
24							
25							
26	8						
27							
28							
29							
30	9						

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/8/98

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Project No: 1801-023-510

Log of Borehole B-10

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
0 1 2 3 4		<p>Fill 6" Fill</p> <p>Black fines, loose, trace gravel (Coal/Slag)</p>	1	GP	85	125	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
5 6		Same As Above	2	GP	50	58	
7 8 9 10 11 12 13 14 15		End of Borehole					

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/6/98

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Project No: 1801-023-510

Log of Borehole B-11

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
1 2 3 4		<i>Fill</i> 6" Slag/Coal Brown coarse sand, loose, trace gravel	1	GP	100	113	
5 6 7		<i>Same As Above</i>	2	GP	75	62	
8 9 10 11 12 13 14 15		End of Borehole					

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/6/98

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Log of Borehole B-12

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
1	[Dotted Pattern]	<i>Fill</i> 2" Slag/Coal Brown coarse sand, with silt, moist and loose.	1	GP	100	128	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
		End of Borehole					

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/6/98

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Project No: 1801-023-510

Log of Borehole B-13

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
1		<i>Fill</i> Dark brown coarse sand, with silt, moist and loose. 12" Slag/Coal	1	GP	75	48	
2		6" Slag/Coal 4" Brown silty clay, stiff, moist 2" Brown coarse sand, loose Dark gray silty clay, soft, moist	2	GP	70	28	
3		<i>Silty Clay</i> Dark gray silty clay, soft, wet	3	GP	80	35	
4		Same As Above					12 - 16 PNAs/BETX/pH/PCBs/ RCRA Metals

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/6/98

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Log of Borehole B-13

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16			4	GP	100	52	
17							
18		<i>Sand</i> Brown coarse sand, wet, trace gravel	5	GPI	50	26	
19							
20		End of Borehole					
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/6/98

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Log of Borehole B-14

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
0 1 2 3 4		<i>Fill</i> 6" Topsoil 4" Brown silty clay, trace sand Brown coarse sand, wet, loose	1	GP	75	48	
5 6 7 8		8" Same as above Dark gray silty sand, with slag and trace gravel	2	GP	70	28	
9 10 11 12		<i>Sand</i> Dark brown sand with slag, dense, moist	3	GP	80	35	
13 14 15		<i>Slag/Coal</i>					

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/6/98

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

Log of Borehole B-14

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16			4	GP	100	52	
17		<i>Silty Clay</i> Dark gray silty clay, soft, wet	5	GP	50	26	16 - 20 PNAs/BETX/pH/PCBs/ RCRA Metals
18							
19							
20		End of Borehole					
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/6/98

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Project No: 1801-023-510

Log of Borehole B-15

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 4 PNAs/BETX/pH/PCBS/ RCRA Metals
1	[Symbol: Dotted pattern]	<i>Fill</i> Asphalt 12" Fill Brown coarse sand, silty, moist, medium dense, trace gravel	1	GP	100	708	
2		Same As Above	2	GP	75	565	
3	[Symbol: Dotted pattern]	<i>Sand</i> Brown silty sand, moist, dense, trace gravel	3	GP	50	430	
4		End of Borehole					

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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Project No: 1801-023-510

Log of Borehole B-16

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
0 1 2 3 4		Black staining (2") Brown silty sand, w/ coarse material, trace gravel, moist, dense	1	GP	75	115	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
4		End of Borehole					
5 6 7 8 9 10 11 12 13 14 15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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Project No: 1801-023-510

Log of Borehole B-17

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
0 1 2 3 4		Black staining (2") Brown silty sand, w/ coarse material, moist, dense, trace gravel	1	GP	50	384	0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
5 6 7 8		Sand 14" Same as above Brown coarse sand, moist, loose	2	GP	40	235	
9 10 11		Sand Brown coarse sand, loose, moist	3	GP	42	178	
12 13 14 15		End of Borehole					

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/7/98

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Project No: 1801-023-510

Log of Borehole B-18

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
1		<i>Fill</i> Brown coarse sand, loose, moist, trace gravel, black staining	1	GP	100	250	
2							
3							
4		Same As Above	2	GP	100	125	
5							
6							
7		Same As Above	3	GP	50	25	
8							
9							
10		End of Borehole					
11							
12							
13							
14							
15							

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/6/98

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Project No: 1801-023-510

Log of Borehole B-19

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 4 PNAs/BETX/pH/PCBs RCRA Metals
1		3" Topsoil					
2		12" Black silty clay, moist, stiff, trace slag	1	GP	50	24.8	
3		Brown coarse sand, moist, loose, stained, with slag					
4							
5							
6		<i>Sand</i> 6" Same as above	2	GP	50	20.9	
7		Brown coarse sand, loose, dry to moist					
8							
9							
10		<i>Sand</i> Brown coarse sand, loose, moist, stained, with slag	3	GP	28	5.4	
11							
12							
13							
14		<i>Sand</i> Brown coarse, moist, loose	4	GP	28	3.2	
15		End of Borehole					

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/7/98

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Project No: 1801-023-510

Log of Borehole B-21

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
1		3" Topsoil	1	GP	50	120	
2		6" Slag/Coal					
3		Brown silty sand, moist, loose, trace gravel					
4		End of Borehole					
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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Project No: 1801-023-510

Log of Borehole B-22

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
0 1 2 3 4		<b>Fill</b> 6" Slag/Coal 2" Furnace brick 6" Dark brown silty sand, dry, with slag Dark brown silty clay, stiff, moist, trace gravel	1	GP	75	5.7	
5 6 7 8		<b>Sand</b> Dark brown silty sand, dense, dry, with slag 16" Light brown, fine, sand, dense, moist	2	GP	90	3.2	
9 10 11 12		<b>Sand</b> Brown sand, fine, loose, dry	3	GP	52	1.3	
13 14 15		<b>Sand</b> Same as above, moist					

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/7/98

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Log of Borehole B-22

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16			4	GP	50	0.3	
17		<i>Silty Clay</i> Dark gray silty clay, soft, moist to wet, plastic	5	GP	60	1.4	16 - 20 PNAs/BETX/pH/PCBs/ RCRA Metals
20		End of Borehole					
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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Log of Borehole B-23

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
1		<i>Fill</i> 6" Slag Dark brown, silty sand, dry to moist, with slag and gravel	1	GP	75	16.2	
2		6" Dark brown, silty sand , dry, with gravel					
3							
4							
5							
6		<i>Slag/Coal</i>	2	GP	90	15.4	
7							
8							
9							
10		12" Slag/Coal Dark brown silty sand, dense, trace gravel	3	GP	70	8.1	
11							
12							
13		<i>Silty Sand</i> Same as above	4	GP	0	< 1	
14		End of Borehole					
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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Project No: 1801-023-510

Log of Borehole B-25

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
0.5 1 2 3 4		Coal	1	GP	100	65	
4 5 6 7 8		4.5" Brown coarse sand, wet, dense, grave present Coal	2	GP	100	23	
8 9 10 11 12		Brown coarse sand, wet, with coal 6" Dark gray silty clay, stiff, wet	3	GP	50	28	8 - 12 PNAs/BETX/pH/PCBs/ RCRA Metals
12		End of Borehole					
13 14 15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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Log of Borehole B-26

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
0 1 2 3 4		<b>Topsoil</b> 12" Light brown silty sand, dense, moist Dark gray to black silty clay, stiff, moist-dry	1	GP	98	6.0	
5 6 7 8		<b>Sand</b> 9" Brown silty sand, moist, dense, trace gravel, with coal	2	GP	75	4.3	
9 10 11 12		Brown silty sand, moist, loose with gravel 6" Brown silty clay, stiff, moist, trace gravel	3	GP	50	5.3	
13 14 15		Same as above, with gravel 10" Dark brown silty clay, hard, moist					

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/7/98

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630-887-1700

Sheet: 1 of 2



Project No: 1801-023-510

Log of Borehole B-26

Project: Phase II investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16			4	GP	55	6.2	
17		<i>Silty Clay</i> Light brown silty clay, soft, moist	5	GP	100	10.6	16 - 20 PNAs/BETX/pH/PCBs/ RCRA Metals
20		End of Borehole					
23							
26							
29							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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 Westmont, IL 60559  
 630-887-1700

Sheet: 2 of 2



Project No: 1801-023-510

Log of Borehole B-27

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
1		<i>Topsol/Fill</i> 24" Coal/Slag 6" Gravel Fill Brown silty sand, moist, dense, with gravel	1	GP	98	2.4	
2		Same As Above	2	GP	55	4.8	
3		Coal/Slag	3	GP	48	3.4	
4		<i>Sand</i> Dark brown sand with coal, dense, dry.					12 - 16 PNAs/BETX/pH/PCBs/ RCRA Metals

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/7/98

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Sheet: 1 of 2



Project No: 1801-023-510

Log of Borehole B-27

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16	[Dotted Pattern]		4	GP	95	6.2	
17							
18		Same As Above	5	GP	50	2.6	
19							
20		End of Borehole					
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/7/98

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Sheet: 2 of 2



Project No: 1801-023-510

Log of Borehole B-30

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
0 1 2 3 4		6" Coal and Fill Dark brown silty clay, moist to wet, soft, trace gravel	1	GP	55	11.4	
5		<i>Silty Clay</i> Dark brown silty clay, wet, soft. trace gravel	2	GP	98	9.3	
6		End of Borehole					
7 8 9 10 11 12 13 14 15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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Sheet: 1 of 1



Project No: 1801-023-510

Log of Borehole B-31

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
1		<i>Silty Sand</i> Dark brown silty sand, moist, dense, trace gravel	1	GP	55	3.8	
2		<i>Silty Sand</i> Same as above, with coal/slag	2	GP	48	3.1	
3		Same As Above	3	GP	30	2.7	
4		<i>Silty Sand</i> Brown silty sand, moist to wet, loose, trace gravel 10" Coal					

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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Sheet: 1 of 2



Project No: 1801-023-510

Log of Borehole B-31

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16	[Dotted Pattern]		4	GP	30	1.9	
17							
18		Coal	5	GP	35	2.3	
19	[Dotted Pattern]						
20			End of Borehole				
21							
22							
23	[Dotted Pattern]						
24							
25							
26	[Dotted Pattern]						
27							
28							
29	[Dotted Pattern]						
30							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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Sheet: 2 of 2





Project No: 1801-023-510

Log of Borehole B-32

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
1		<i>Silty Sand</i> 9" Topsoil Brown silty sand, moist, dense	1	GP	100	17.4	
2		Same as Above 8" Bown sand, fine, dry, loose	2	GP	90	213	4 - 8 PNAs/BETX/pH/PCBs/ RCRA Metals
3		25" Same as above 10" Brown silty sand, wet, loose Brown sand, fine, dry, loose	3	GP	92	157	
4		<i>Silty Sand</i> Brown silty sand, loose, dry, with gravel					

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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Sheet: 1 of 2



Project No: 1801-023-510

Log of Borehole B-32

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16	5		4	GP	88	140	
17							
18		Same As Above	5	GP	100	14.1	
19							
20	6	End of Borehole					
21							
22							
23	7						
24							
25							
26	8						
27							
28							
29							
30	9						

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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Sheet: 2 of 2



Project No: 1801-023-510

Log of Borehole B-33

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
1	[Symbol: Dotted pattern]	Brown silty sand, moist to wet, loose, trace gravel	1	GP	90	3.0	
2							
3		Same as Above	2	GP	50	1.8	
4							
5	[Symbol: Dotted pattern]	Silty Sand Brown silty sand, moist, some gravel	3	GP	100	1.6	
6							
7							
8	[Symbol: Dotted pattern]	Sand Brown coarse sand, wet, loose, with gravel					
9							
10							
11	[Symbol: Dotted pattern]						
12							
13							
14							
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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Sheet: 1 of 2



Project No: 1801-023-510



Log of Borehole B-33

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16			4	GP	40	1.9	
17	5						
18		12" Brown coarse sand, wet, loose, with coal Gray silty sand, wet with gravel 4" Dark gray silty clay, hard, moist to wet	5	GP	90	4.2	16 - 20 PNA/BETX/pH/PCBs/ RCRA Metals
19							
20	6						
21		End of Borehole					
22							
23	7						
24							
25							
26	8						
27							
28							
29	9						
30							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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Sheet: 2 of 2



Project No: 1801-023-510

Log of Borehole B-34

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					0 - 4 PNAs/BETX/pH/PCBs/ RCRA Metals
1		<i>Sand</i> Brown coarse sand, loose, moist, trace gravel	1	GP	20	8.9	
2		<i>Silty Sand</i> Brown silty sand, loose, moist with some coarse material	2	GP	32	7.3	
3		<i>Silty Sand</i> Brown silty sand, dense, moist to wet	3	GP	20	5.2	
4		Same as Above					

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/7/98

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Sheet: 1 of 2



Project No: 1801-023-510

Log of Borehole B-34

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16	5		4	GP	32	2.5	
17							
18		Same As Above With gravel	5	GP	50	3.1	
19							
20	6	End of Borehole					
21							
22							
23	7						
24							
25							
26	8						
27							
28							
29							
30	9						

Drilled By: Fox Drilling

Drill Method: Geoprobe

Drill Date: 10/7/98

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Sheet: 2 of 2



Project No: 1801-023-510

Log of Borehole B-35

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
1		<i>Sand</i> Brown fine to coarse sand, moist, trace gravel	1	GP	95	42	
2		<i>Same As Above</i>	2	GP	75	21	
3		<i>Same As Above</i>	3	GP	45	28	
4		<i>Same as Above</i> Black staining at 15 feet					

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/6/98

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Sheet: 1 of 2



Project No: 1801-023-510

Log of Borehole B-35

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16			4	GP	75	22	
17							16 - 20 PNAs/BETX/pH/PCBs/ RCRA Metals
18		<i>Silty Sand</i> Brown silty sand, moist to wet, dense, with coarse material	5	GP	50	42	
19							
20		End of Borehole					
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/6/98

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Sheet: 2 of 2





Project No: 1801-023-510

Log of Borehole B-36

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
0		Ground Surface					
1		<p><b>Sand</b> Light brown sand with gravel, moist, loose</p>	1	GP	60	23	
2							
3		<p><b>Same As Above</b></p>	2	GP	75	18	
4							
5		<p><b>Silty Clay</b> Dark gray silty clay, wet, soft</p>	3	GP	55	54	
6							
7							
8		<p><b>Same as Above</b> With odor</p>					<p>12 - 16 PNAs/BETX/pH/PCBs/ RCRA Metals</p>
9							
10							
11							
12							
13							
14							
15							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/6/98

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Sheet: 1 of 2



Project No: 1801-023-510


Log of Borehole B-36

Project: Phase II Investigation

Client: Commonwealth Edison

Location: Powerton Power Station

Geologist: LLR

SUBSURFACE PROFILE			SAMPLE				Lab Analysis
Depth	Symbol	Description / Classification	Number	Type	Recovery(%)	PID Reading	
16			4	GP	52	102	
17							
18		No Recovery	5	GP	0	< 1	
19							
20		End of Borehole					
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Drilled By: Fox Drilling  
 Drill Method: Geoprobe  
 Drill Date: 10/6/98

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Sheet: 2 of 2

Project No: 1801-023-510

Client: Commonwealth Edison Site: Powerton Power Station

WELL No: MW-1

Well Location: NE of East Polymer Bldg, near rail-road tracks

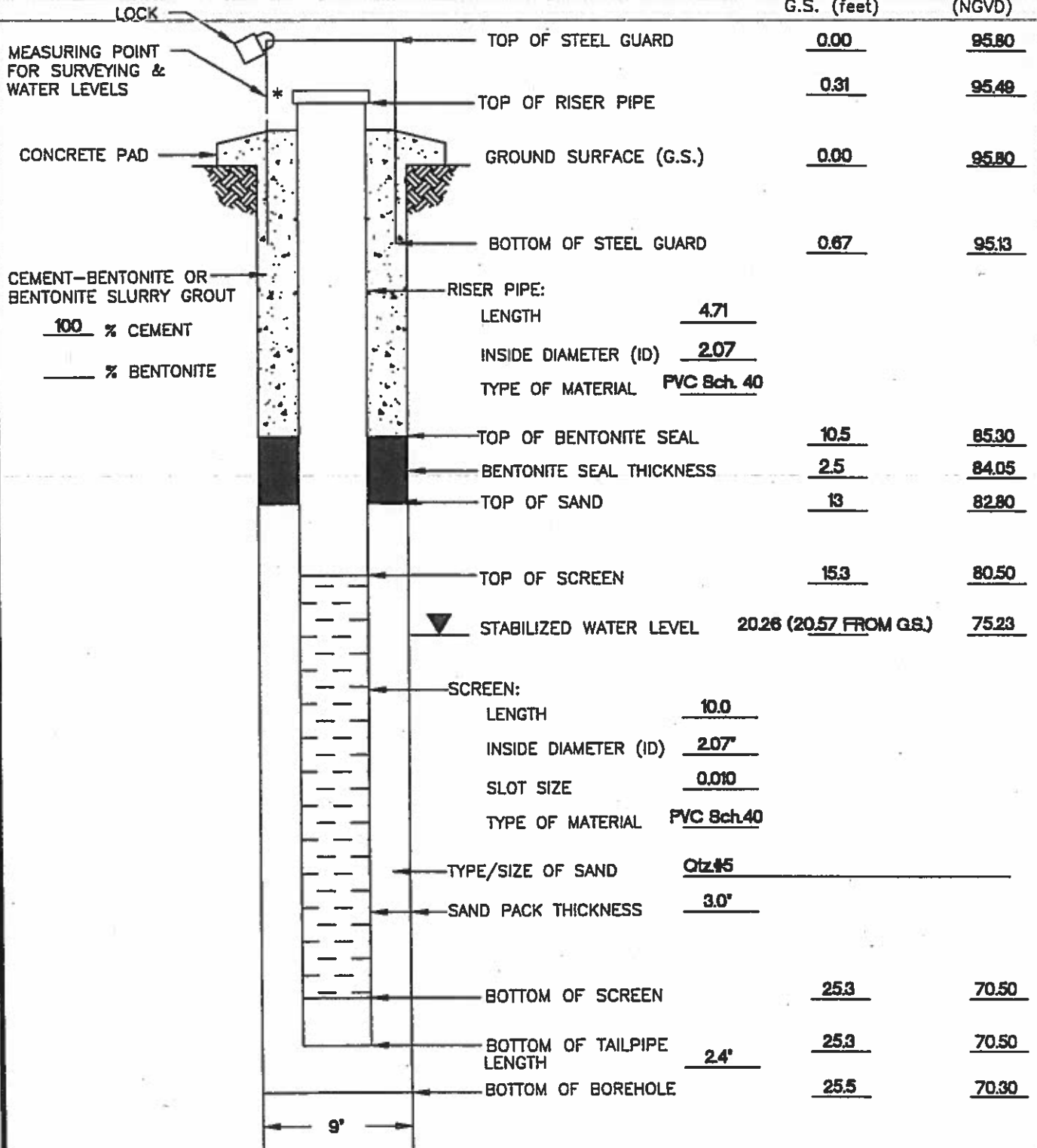
Date Installed: 10/13/98

Contractor: FOX DRILLING INC.

Method: HBA 4 1/4"

Inspector: L.R.

### MONITORING WELL CONSTRUCTION DETAIL



\* Describe Measuring Point

NORTH SIDE

Approved:

Signature

10/13/98

Date

**ENSR**™

MWG13-15-3543

Project No: 1901-023-510 Client: Commonwealth Edison Site: Powerton Power Station

WELL No: MW-2/B-12

Well Location: NW part of property, near Slag Overflow Basin

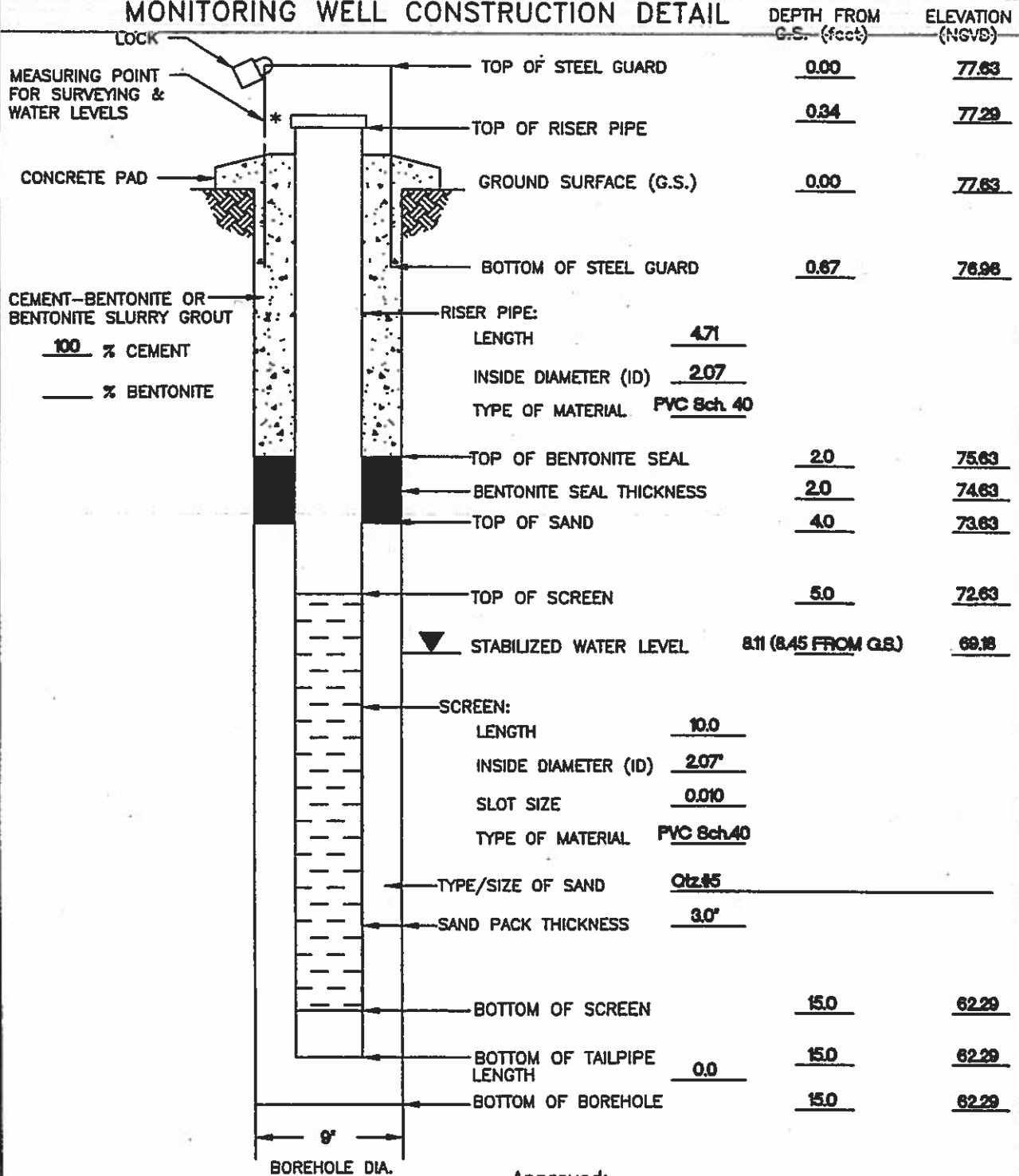
Date Installed: 10/14/98

Contractor: FOX DRILLING INC.

Method: HBA 4 1/4"

Inspector: L.R.

### MONITORING WELL CONSTRUCTION DETAIL



\* Describe Measuring Point

NORTH SIDE

Approved:

Signature \_\_\_\_\_

10/14/98

Date

**ENSR**™

Project No: 1801-023-510 Client: Commonwealth Edison Site: Powerion Power Station

WELL No: **MW-3**

Well Location: SW corner of Settling Basins, near B36

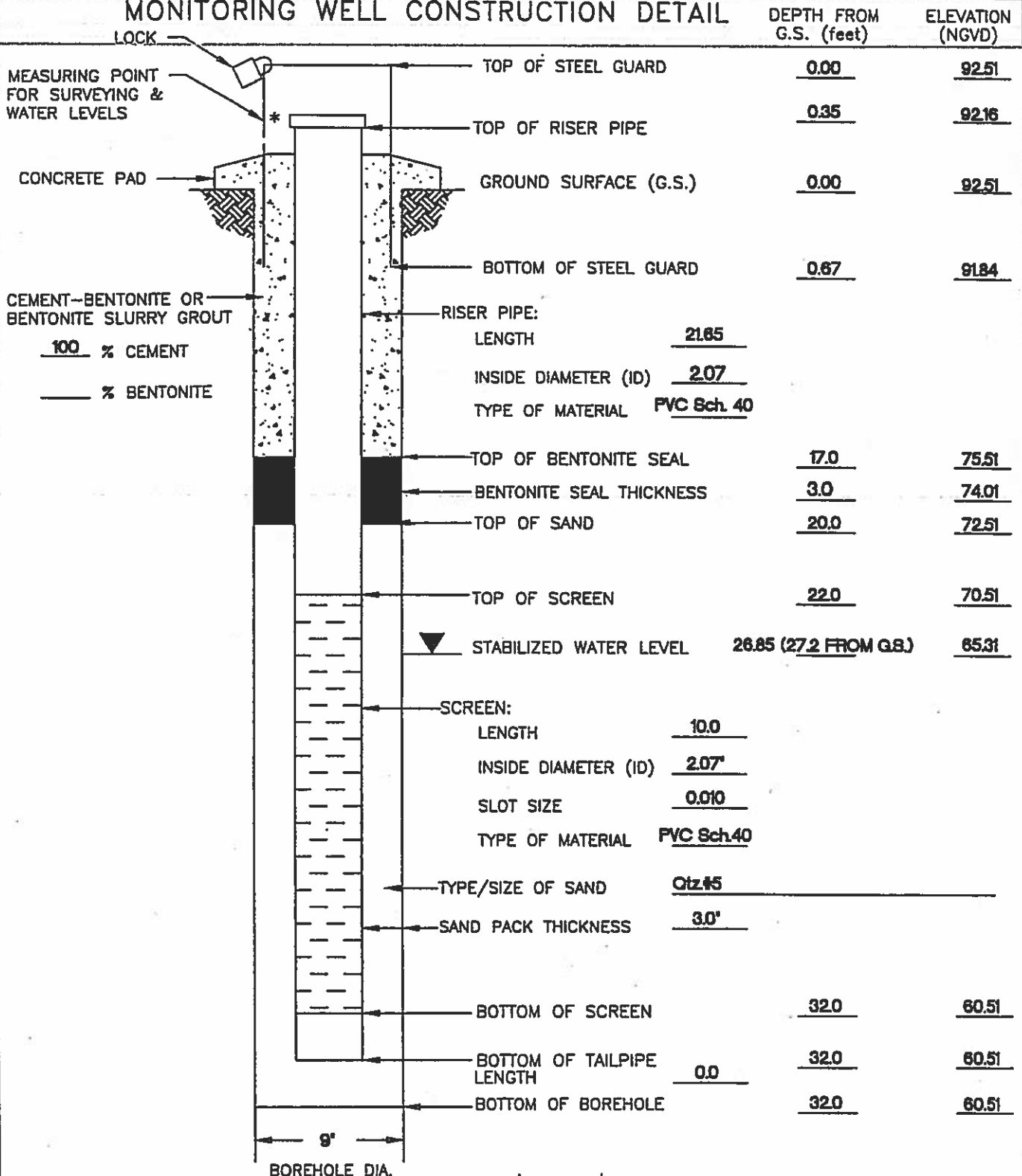
Date Installed: 10/14/98

Contractor: FOX DRILLING INC.

Method: HSA 4 1/4"

Inspector: L.R.

### MONITORING WELL CONSTRUCTION DETAIL



\* Describe Measuring Point

Approved:

NORTH SIDE

Signature

10/14/98

Date

**ENSR**™

Project No: 1801-023-510 Client: Commonwealth Edison Site: Powerlon Power Station

WELL No: **MW-5**

Well Location: Inside Coal Storage Area

Date Installed: 10/14/98

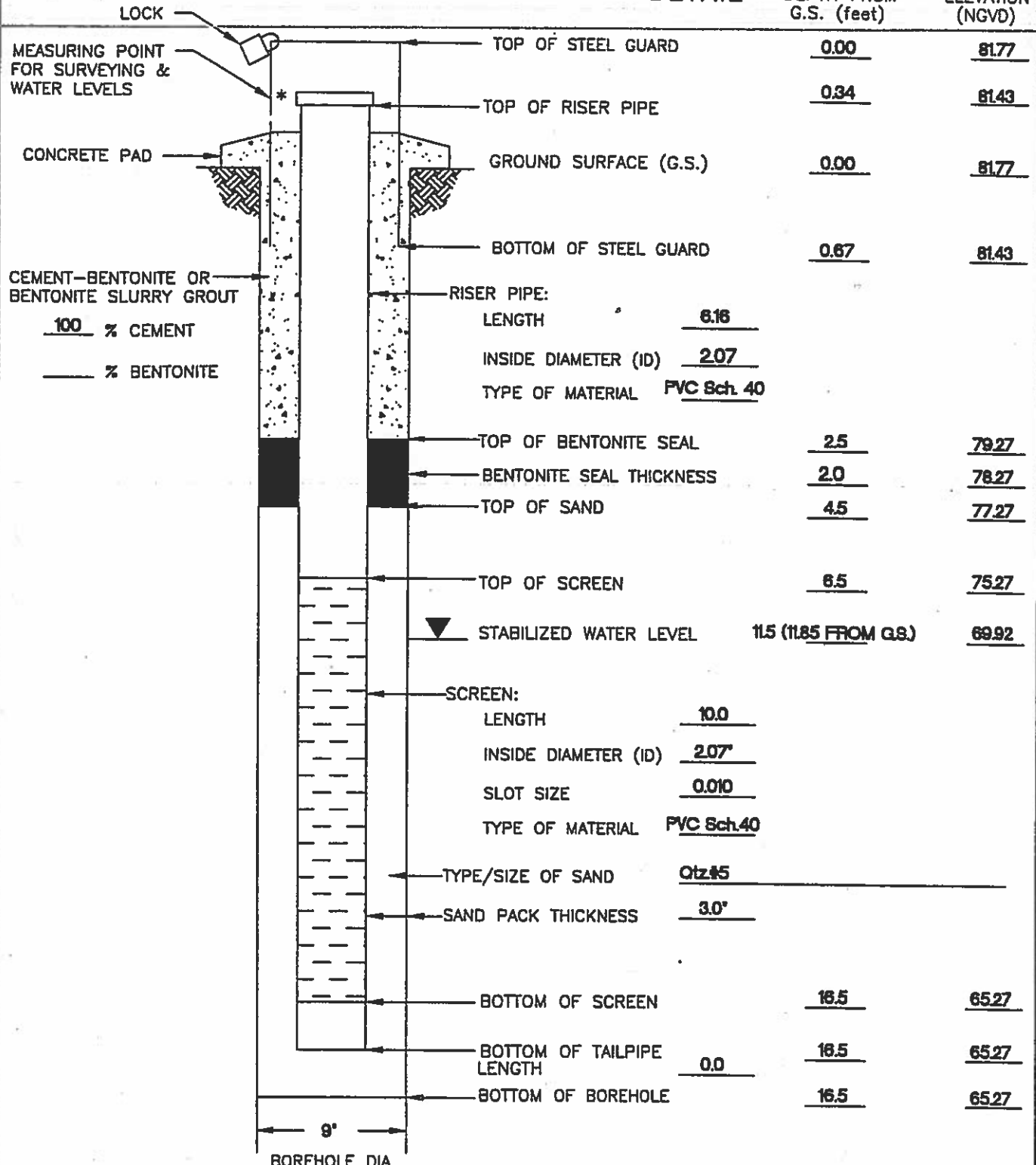
Contractor: FOX DRILLING INC.

Method: HBA 4 1/4"

Inspector: L.R.

**MONITORING WELL CONSTRUCTION DETAIL**

DEPTH FROM G.S. (feet) ELEVATION (NGVD)



\* Describe Measuring Point

NORTH SIDE

Approved:

Signature \_\_\_\_\_

10/14/98  
Date



Project No: 1001-023-510 Client: Commonwealth Edison Site: Powerlon Power Station

WELL No: **MW-6**

Well Location: Near Main Entrance, behind Com Ed Sign

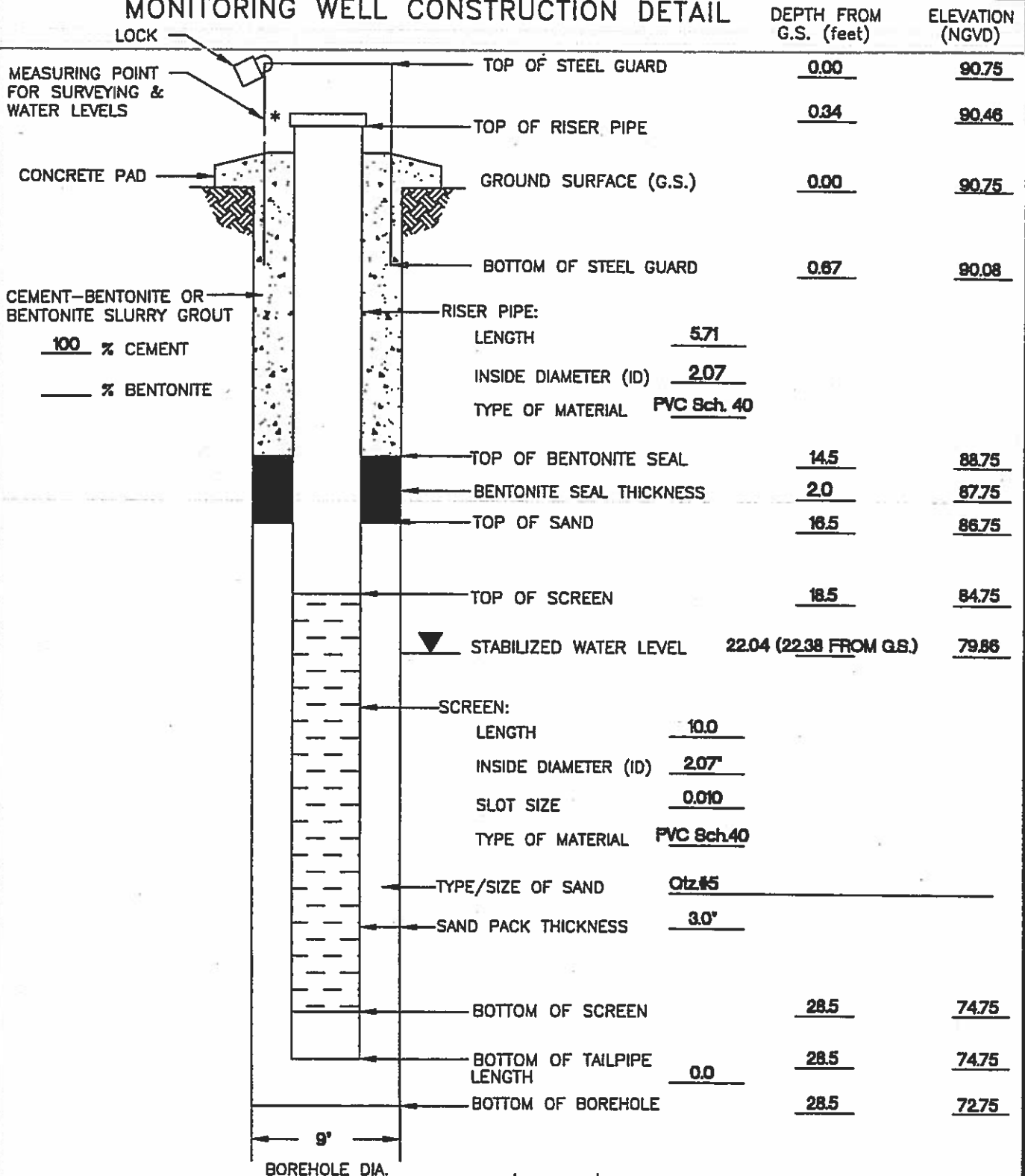
Date Installed: 10/15/98

Contractor: FOX DRILLING INC.

Method: HBA 4 1/4'

Inspector: L.R.

### MONITORING WELL CONSTRUCTION DETAIL



\* Describe Measuring Point

NORTH SIDE

Approved:

Signature

10/15/98

Date

**ENSR**™

MWG13-15 3347

Project No: 1801-023-510 Client: Commonwealth Edison Site: Powerton Power Station

WELL No: MW-7/B-33

Well Location: South side of property, near West Polymer Building

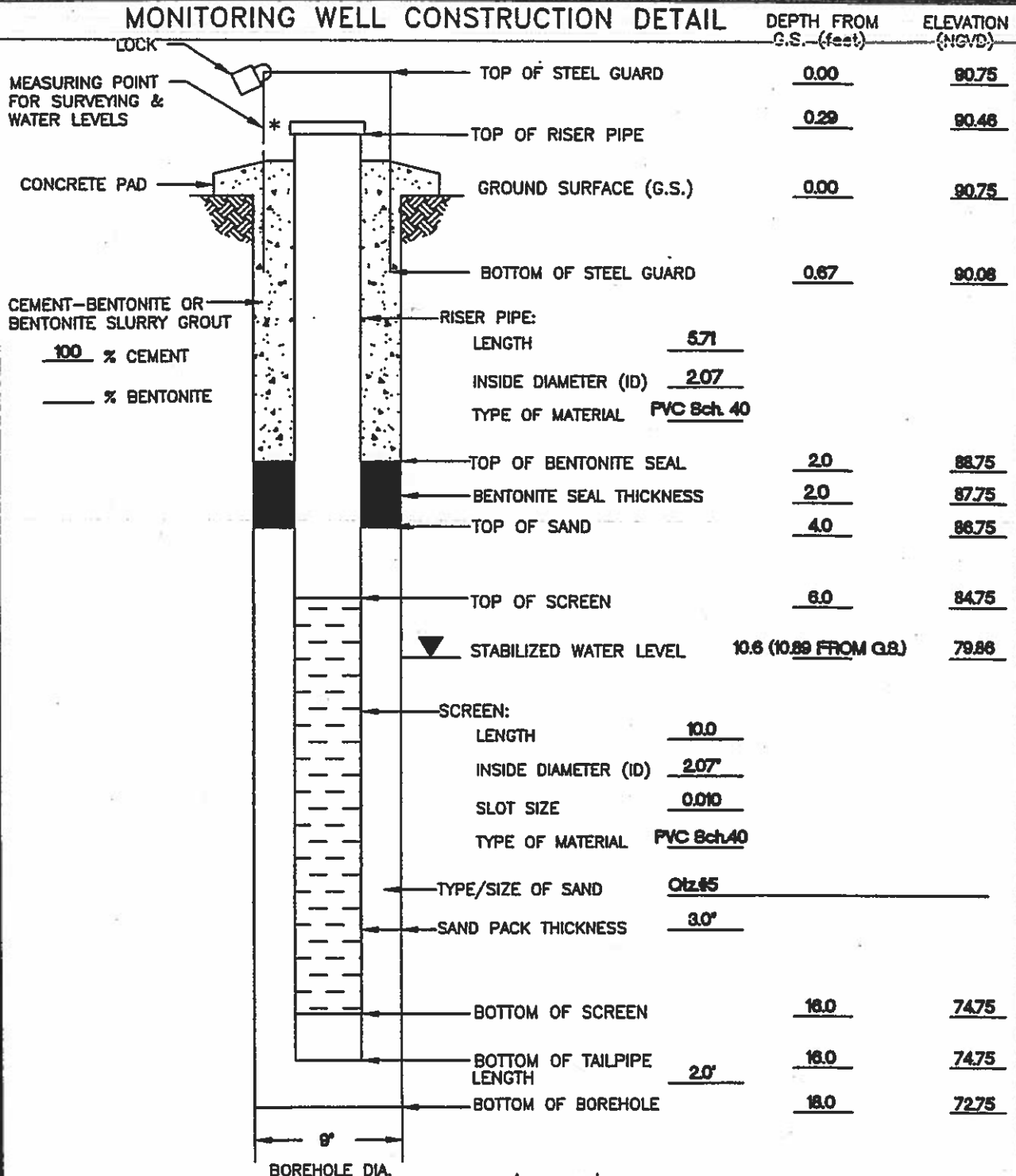
Date Installed: 10/14/98

Contractor: FOX DRILLING INC.

Method: HBA 4 1/4"

Inspector: L.R.

### MONITORING WELL CONSTRUCTION DETAIL



\* Describe Measuring Point

NORTH SIDE

Approved:

Signature

10/14/98

Date

**ENSR**™



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**APPENDIX B**

**Analytical Reports**

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**Phase II Environmental Site Assessment  
Commonwealth Edison Company  
December 7, 1998**

**Powerton Generating Station  
Route 29 & Mantino Road  
Pekin, Illinois**



**NATIONAL ENVIRONMENTAL TESTING, INC.**

Bartlett Division  
850 West Bartlett Rd.  
Bartlett, IL 60103  
Tel: (630) 289-3100  
Fax: (630) 289-5445

Rockford Division  
3548 35th Street  
Rockford, IL 61109  
Tel: (815) 874-2171  
Fax: (815) 874-5622  
(800) 807-2877

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

IEPA Cert. No.: 100221  
WDNR Cert. No.: 999447130  
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: ComEd-Powerton; 1801-023-510

Sample Number	Sample Description	Date Taken	Date Received
497418	S-1	10/08/1998	10/09/1998
497419	S-2	10/08/1998	10/09/1998
497420	S-3	10/08/1998	10/09/1998
497421	S-4	10/08/1998	10/09/1998
497422	S-5	10/08/1998	10/09/1998
497423	S-6	10/08/1998	10/09/1998
497424	S-7	10/08/1998	10/09/1998
497425	B-8	10/08/1998	10/09/1998
497426	S-9	10/08/1998	10/09/1998
497427	S-10	10/08/1998	10/09/1998
497428	S-11	10/08/1998	10/09/1998
497429	S-12	10/08/1998	10/09/1998
497430	S-14	10/08/1998	10/09/1998
497434	S-15	10/08/1998	10/09/1998

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

*Mary Pearson*  
Mary Pearson  
Project Manager



**NATIONAL ENVIRONMENTAL TESTING, INC.**

Bartlett Division  
850 West Bartlett Rd.  
Bartlett, IL 60103  
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Fax: (630) 289-5445

Rockford Division  
3548 35th Street  
Rockford, IL 61109  
Tel: (815) 874-2171  
Fax: (815) 874-5622  
(800) 807-2877

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

IEPA Cert. No.: 100221  
WDNR Cert. No.: 999447130  
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: ComEd-Powerton; 1801-023-510

Sample Number	Sample Description	Date Taken	Date Received
497435	S-16	10/08/1998	10/09/1998
497436	S-17	10/08/1998	10/09/1998
497437	S-18	10/08/1998	10/09/1998
497438	S-19	10/08/1998	10/09/1998
497439	S-20	10/08/1998	10/09/1998
497440	S-21	10/08/1998	10/09/1998
497441	S-22	10/08/1998	10/09/1998
497442	S-23	10/08/1998	10/09/1998
497443	S-24	10/08/1998	10/09/1998
497444	S-25	10/08/1998	10/09/1998

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson  
Project Manager



**NATIONAL ENVIRONMENTAL TESTING, INC.**

Bartlett Division  
850 West Bartlett Rd.  
Bartlett, IL 60103  
Tel: (630) 289-3100  
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Rockford Division  
3548 35th Street  
Rockford, IL 61109  
Tel: (815) 874-2171  
Fax: (815) 874-5622  
(800) 807-2877

**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497418  
NET Job No.: 98.13169

Sample Description: S-1  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 08:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.79	units	10/15/1998	0.10	nwg	172	SW 9045B
Solids, Total	91.8	g	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	3.9	mg/kg dw	10/26/1998	0.54	mhp	223 662	SW 7060
Barium, ICP	110	mg/kg dw	10/28/1998	1.1	jtc	1151 2160	SW 6010B
Cadmium, ICP	2.2	mg/kg dw	10/24/1998	0.54	kdw	1151 2139	SW 6010B
Chromium, ICP	16	mg/kg dw	10/24/1998	2.2	kdw	1151 2125	SW 6010B
Lead, ICP	21	mg/kg dw	10/24/1998	4.4	kdw	1151 2361	SW 6010B
Mercury, CVAA	<0.044	mg/kg dw	10/23/1998	0.044	sep	660 764	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	10/26/1998	0.27	mhp	223 549	SW 7740
Silver, AA	<2.2	mg/kg dw	10/26/1998	2.2	sep	482 566	SW 7760

Prep, TPH 8015M - NONAQUEOUS	extracted		10/19/1998		mmv	239	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<545	mg/kg dw	10/29/1998	54	out	239 485	SW 8015M
TPH as Diesel	<545	mg/kg dw	10/29/1998	54	out	239 485	SW 8015M
TPH as Oil	72,700	PT mg/kg dw	10/29/1998	54	out	239 485	SW 8015M
N-octacosane (TPH surr)	159.0	g	10/29/1998		out	239 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Toluene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Dibromofluoromethane (Surr)	100.2	g	10/20/1998	81-129	jap	43	SW 8260A
Toluene-d8 (Surr)	101.4	g	10/20/1998	74-129	jap	43	SW 8260A
4-Bromofluoromethane (Surr)	102.6	g	10/20/1998	70-130	jap	43	SW 8260A
Prep, 8110 PNAs NON-AQUEOUS	COMPLETE		10/19/1998		rxm	762	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497418  
NET Job No.: 98.13169

Sample Description: S-1  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 08:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.022	mg/kg dw	10/22/1998	0.022	rum	762 1814	SW 8310
Acenaphthylene	<0.022	mg/kg dw	10/22/1998	0.022	rum	762 1814	SW 8310
Anthracene	<0.044	mg/kg dw	10/22/1998	0.044	rum	762 1814	SW 8310
Benzo(a)anthracene	0.47	mg/kg dw	10/22/1998	0.011	rum	762 1814	SW 8310
Benzo(b)fluoranthene	<0.011	mg/kg dw	10/22/1998	0.011	rum	762 1814	SW 8310
Benzo(k)fluoranthene	<0.011	mg/kg dw	10/22/1998	0.011	rum	762 1814	SW 8310
Benzo(a)pyrene	<0.011	mg/kg dw	10/22/1998	0.011	rum	762 1814	SW 8310
Benzo(ghi)perylene	<0.044	mg/kg dw	10/22/1998	0.044	rum	762 1814	SW 8310
Chrysene	<0.033	mg/kg dw	10/22/1998	0.033	rum	762 1814	SW 8310
Dibenzo(a,h)anthracene	<0.011	mg/kg dw	10/22/1998	0.011	rum	762 1814	SW 8310
Fluoranthene	0.80	mg/kg dw	10/22/1998	0.022	rum	762 1814	SW 8310
Fluorene	0.38	mg/kg dw	10/22/1998	0.022	rum	762 1814	SW 8310
Indeno(1,2,3-cd)pyrene	<0.011	mg/kg dw	10/22/1998	0.011	rum	762 1814	SW 8310
Naphthalene	<0.027	mg/kg dw	10/22/1998	0.027	rum	762 1814	SW 8310
Phenanthrene	0.96	mg/kg dw	10/22/1998	0.044	rum	762 1814	SW 8310
Pyrene	1.1	mg/kg dw	10/22/1998	0.022	rum	762 1814	SW 8310
Surr: p-Terphenyl	82.0	µ	10/22/1998	43-125	rum	762 1814	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wna	371	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.044	mg/kg dw	10/22/1998	0.044	tls	371 42	SW 8082
PCB-1221	<0.044	mg/kg dw	10/22/1998	0.044	tls	371 42	SW 8082
PCB-1232	<0.044	mg/kg dw	10/22/1998	0.044	tls	371 42	SW 8082
PCB-1242	<0.044	mg/kg dw	10/22/1998	0.044	tls	371 42	SW 8082
PCB-1248	<0.044	mg/kg dw	10/22/1998	0.044	tls	371 42	SW 8082
PCB-1254	<0.044	mg/kg dw	10/22/1998	0.044	tls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497418  
NET Job No.: 98.13169

Sample Description: S-1  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 08:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.044	mg/kg dw	10/22/1998	0.044	cls	371 42	SW 8082
Decachlorobiphenyl (Surr)	90.0	µ	10/22/1998	NA	cls	371 42	SW 8082
2,4,5,6-TCMX (Surr)	74.0	µ	10/22/1998	NA	cls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497419  
NET Job No.: 98.13169

Sample Description: S-2  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 08:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.23	units	10/15/1998	0.10	nwg	172	SW 9045B
Solids, Total	80.6	%	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	7.4	mg/kg dw	10/26/1998	0.62	mhp	223 662	SW 7060
Barium, ICP	682	mg/kg dw	10/28/1998	1.2	jtt	1151 2160	SW 6010B
Cadmium, ICP	7.3	mg/kg dw	10/24/1998	0.62	kdw	1151 2139	SW 6010B
Chromium, ICP	45	mg/kg dw	10/24/1998	2.5	kdw	1151 2125	SW 6010B
Lead, ICP	71	mg/kg dw	10/24/1998	5.0	kdw	1151 2361	SW 6010B
Mercury, CVA	0.50	mg/kg dw	10/23/1998	0.050	sep	660 764	SW 7471A
Selenium, GFAA	0.82	mg/kg dw	10/26/1998	0.31	mhp	223 549	SW 7740
Silver, AA	<2.5	mg/kg dw	10/26/1998	2.5	sep	482 566	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/19/1998		mmv	239	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<310	mg/kg dw	10/29/1998	62	out	239 485	SW 8015M
TPH as Diesel	<310	mg/kg dw	10/29/1998	62	out	239 485	SW 8015M
TPH as Oil	5.150	PT mg/kg dw	10/29/1998	62	out	239 485	SW 8015M
N-octacosane (TPH surr)	92.0	%	10/29/1998		out	239 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Toluene	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Dibromofluoromethane (Surr)	98.0	%	10/20/1998	81-129	jap	43	SW 8260A
Toluene-d8 (Surr)	101.6	%	10/20/1998	74-129	jap	43	SW 8260A
4-Bromofluoromethane (Surr)	107.4	%	10/20/1998	70-130	jap	43	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	COMPLETE		10/19/1998		rum	762	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497419  
NET Job No.: 98.13169

Sample Description: S-2  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 08:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMFDS - 8310 NONAQUEOUS</b>							
Acenaphthene	2.1	mg/kg dw	10/22/1998	0.025	rma	762 1814	SW 8310
Acenaphthylene	<0.025	mg/kg dw	10/22/1998	0.025	rma	762 1814	SW 8310
Anthracene	3.6	mg/kg dw	10/22/1998	0.050	rma	762 1814	SW 8310
Benzo (a) anthracene	7.4	mg/kg dw	10/22/1998	0.012	rma	762 1814	SW 8310
Benzo (b) fluoranthene	3.7	mg/kg dw	10/22/1998	0.012	rma	762 1814	SW 8310
Benzo (k) fluoranthene	3.5	mg/kg dw	10/22/1998	0.012	rma	762 1814	SW 8310
Benzo (a) pyrene	7.2	mg/kg dw	10/22/1998	0.012	rma	762 1814	SW 8310
Benzo (ghi) perylene	5.8	mg/kg dw	10/22/1998	0.050	rma	762 1814	SW 8310
Chrysene	8.4	mg/kg dw	10/22/1998	0.037	rma	762 1814	SW 8310
Dibenzo (a, h) anthracene	0.94	mg/kg dw	10/22/1998	0.012	rma	762 1814	SW 8310
Fluoranthene	21	mg/kg dw	10/22/1998	0.025	rma	762 1814	SW 8310
Fluorene	2.5	mg/kg dw	10/22/1998	0.025	rma	762 1814	SW 8310
Indeno (1, 2, 3-cd) pyrene	3.8	mg/kg dw	10/22/1998	0.012	rma	762 1814	SW 8310
Naphthalene	0.35	mg/kg dw	10/22/1998	0.031	rma	762 1814	SW 8310
Phenanthrene	1.6	mg/kg dw	10/22/1998	0.050	rma	762 1814	SW 8310
Pyrene	1.9	mg/kg dw	10/22/1998	0.025	rma	762 1814	SW 8310
Surr: p-Terphenyl	47.0	t	10/22/1998	43-125	rma	762 1814	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wra	371	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1221	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1232	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1242	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1248	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1254	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082





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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497419  
NET Job No.: 98.13169

Sample Description: S-2  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 08:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.083	mg/kg dw	10/22/1998	0.050	tls	371 42	SW 8082
Decachlorobiphenyl (Surr)	116.0	µ	10/22/1998	NA	tls	371 42	SW 8082
2,4,5,6-TCDF (Surr)	115.0	µ	10/22/1998	NA	tls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497420  
NET Job No.: 98.13169

Sample Description: S-3  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.81	units	10/15/1998	0.10	nwg	172	SW 9045B
Solids, Total	84.0	%	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	5.2	mg/kg dw	10/26/1998	0.60	mhp	224 662	SW 7060
Barium, ICP	110	mg/kg dw	10/30/1998	1.2	jtt	1150 2169	SW 6010B
Cadmium, ICP	3.5	mg/kg dw	10/30/1998	0.60	jtt	1150 2154	SW 6010B
Chromium, ICP	17	mg/kg dw	10/30/1998	2.4	jtt	1150 2139	SW 6010B
Lead, ICP	51	mg/kg dw	10/30/1998	4.8	jtt	1150 2376	SW 6010B
Mercury, CVAAs	<0.048	mg/kg dw	10/23/1998	0.048	sep	660 764	SW 7471A
Selenium, GFAA	<0.30	mg/kg dw	10/26/1998	0.30	mhp	224 549	SW 7740
Silver, AA	<2.4	mg/kg dw	10/26/1998	2.4	sep	482 566	SW 7760
<hr/>							
Prep, TPH-8015M - NONAQUEOUS	extracted		10/19/1998		unv	239	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<119	mg/kg dw	10/27/1998	60	bcl	239 483	SW 8015M
TPH as Diesel	<119	mg/kg dw	10/27/1998	60	bcl	239 483	SW 8015M
TPH as Oil	762	PT mg/kg dw	10/27/1998	60	bcl	239 483	SW 8015M
N-octacosane (TPH surr)	132.0	%	10/27/1998		bcl	239 483	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Toluene	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Dibromofluoromethane (Surr)	95.6	%	10/20/1998	81-129	jap	43	SW 8260A
Toluene-d8 (Surr)	101.6	%	10/20/1998	74-129	jap	43	SW 8260A
4-Bromofluoromethane (Surr)	103.2	%	10/20/1998	70-130	jap	43	SW 8260A
<hr/>							
Prep, 8310 PNAAs NON-AQUEOUS	COMPLETE		10/19/1998		rmm	762	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497420

NET Job No.: 98.13169

Sample Description: S-3  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	0.31	mg/kg dw	10/21/1998	0.024	rmm	762 1815	SW 8310
Acenaphthylene	<0.024	mg/kg dw	10/21/1998	0.024	rmm	762 1815	SW 8310
Anthracene	0.52	mg/kg dw	10/21/1998	0.048	rmm	762 1815	SW 8310
Benzo (a) anthracene	1.2	mg/kg dw	10/21/1998	0.012	rmm	762 1815	SW 8310
Benzo (b) fluoranthene	0.56	mg/kg dw	10/21/1998	0.012	rmm	762 1815	SW 8310
Benzo (k) fluoranthene	0.61	mg/kg dw	10/21/1998	0.012	rmm	762 1815	SW 8310
Benzo (a) pyrene	1.2	mg/kg dw	10/21/1998	0.012	rmm	762 1815	SW 8310
Benzo (ghi) perylene	0.99	mg/kg dw	10/21/1998	0.048	rmm	762 1815	SW 8310
Chrysene	1.4	mg/kg dw	10/21/1998	0.036	rmm	762 1815	SW 8310
Dibenzo (a, h) anthracene	0.15	mg/kg dw	10/21/1998	0.012	rmm	762 1815	SW 8310
Fluoranthene	3.2	mg/kg dw	10/21/1998	0.024	rmm	762 1815	SW 8310
Fluorene	0.29	mg/kg dw	10/21/1998	0.024	rmm	762 1815	SW 8310
Indeno (1,2,3-cd) pyrene	0.56	mg/kg dw	10/21/1998	0.012	rmm	762 1815	SW 8310
Naphthalene	<0.030	mg/kg dw	10/21/1998	0.030	rmm	762 1815	SW 8310
Phenanthrene	2.4	mg/kg dw	10/21/1998	0.048	rmm	762 1815	SW 8310
Pyrene	2.9	mg/kg dw	10/21/1998	0.024	rmm	762 1815	SW 8310
Surr: p-Terphenyl	71.0	µ	10/21/1998	43-125	rmm	762 1815	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wna	371	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.048	mg/kg dw	10/22/1998	0.048	cls	371 42	SW 8082
PCB-1221	<0.048	mg/kg dw	10/22/1998	0.048	cls	371 42	SW 8082
PCB-1232	<0.048	mg/kg dw	10/22/1998	0.048	cls	371 42	SW 8082
PCB-1242	<0.048	mg/kg dw	10/22/1998	0.048	cls	371 42	SW 8082
PCB-1248	<0.048	mg/kg dw	10/22/1998	0.048	cls	371 42	SW 8082
PCB-1254	<0.048	mg/kg dw	10/22/1998	0.048	cls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497420

NET Job No.: 98.13169

Sample Description: S-3  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
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Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.096	mg/kg dw	10/22/1998	0.048	cls	371 42	SW 8082
Decachlorobiphenyl (Surr)	232.0 RM	%	10/22/1998	NA	cls	371 42	SW 8082
2,4,5,6-TCMX (Surr)	91.0	%	10/22/1998	NA	cls	371 42	SW 8082

RM : High surrogate recovery due to matrix interference.



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497421

NET Job No.: 98.13169

Sample Description: S-4  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 09:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	5.93	units	10/15/1998	0.10	nwg	172	SW 9045B
Solids, Total	89.6	%	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	4.9	mg/kg dw	10/26/1998	0.56	mhp	224 662	SW 7060
Barium, ICP	179	mg/kg dw	10/30/1998	1.1	jtc	1150 2169	SW 6010B
Cadmium, ICP	7.8	mg/kg dw	10/30/1998	0.56	jtc	1150 2154	SW 6010B
Chromium, ICP	21	mg/kg dw	10/30/1998	2.2	jtc	1150 2139	SW 6010B
Lead, ICP	558	mg/kg dw	10/30/1998	4.5	jtc	1150 2376	SW 6010B
Mercury, CVAA	<0.045	mg/kg dw	10/23/1998	0.045	sep	660 764	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	10/26/1998	0.28	mhp	224 549	SW 7740
Silver, AA	<2.2	mg/kg dw	10/26/1998	2.2	sep	482 566	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/19/1998		mmv	239	SW 8015M
TPH as Gas	<279	mg/kg dw	10/29/1998	56	out	239 485	SW 8015M
TPH as Diesel	<279	mg/kg dw	10/29/1998	56	out	239 485	SW 8015M
TPH as Oil	5,460	PT mg/kg dw	10/29/1998	56	out	239 485	SW 8015M
N-octacosane (TPH surr)	33:0	%	10/29/1998		out	239 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Toluene	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Dibromofluoromethane (Surr)	104.2	%	10/20/1998	81-129	jap	43	SW 8260A
Toluene-d8 (Surr)	109.6	%	10/20/1998	74-129	jap	43	SW 8260A
4-Bromofluoromethane (Surr)	109.4	%	10/20/1998	70-130	jap	43	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	COMPLETE		10/19/1998		rmn	762	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497421

NET Job No.: 98.13169

Sample Description: S-4  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 09:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<1.1	mg/kg dw	10/21/1998	0.022	xmm	762 1815	SW 8310
Acenaphthylene	<1.1	mg/kg dw	10/21/1998	0.022	xmm	762 1815	SW 8310
Anthracene	<2.2	mg/kg dw	10/21/1998	0.045	xmm	762 1815	SW 8310
Benzo(a)anthracene	<1.1	mg/kg dw	10/21/1998	0.011	xmm	762 1815	SW 8310
Benzo(b)fluoranthene	<1.1	mg/kg dw	10/21/1998	0.011	xmm	762 1815	SW 8310
Benzo(k)fluoranthene	<1.1	mg/kg dw	10/21/1998	0.011	xmm	762 1815	SW 8310
Benzo(a)pyrene	<1.1	mg/kg dw	10/21/1998	0.011	xmm	762 1815	SW 8310
Benzo(ghi)perylene	<2.2	mg/kg dw	10/21/1998	0.045	xmm	762 1815	SW 8310
Chrysene	<1.7	mg/kg dw	10/21/1998	0.033	xmm	762 1815	SW 8310
Dibenzo(a,h)anthracene	<1.1	mg/kg dw	10/21/1998	0.011	xmm	762 1815	SW 8310
Fluoranthene	<1.1	mg/kg dw	10/21/1998	0.022	xmm	762 1815	SW 8310
Fluorene	<1.1	mg/kg dw	10/21/1998	0.022	xmm	762 1815	SW 8310
Indeno(1,2,3-cd)pyrene	<1.1	mg/kg dw	10/21/1998	0.011	xmm	762 1815	SW 8310
Naphthalene	<1.3	mg/kg dw	10/21/1998	0.028	xmm	762 1815	SW 8310
Phenanthrene	<2.2	mg/kg dw	10/21/1998	0.045	xmm	762 1815	SW 8310
Pyrene	<1.1	mg/kg dw	10/21/1998	0.022	xmm	762 1815	SW 8310
Surr: p-Terphenyl	Diluted out		10/21/1998	43-125	xmm	762 1815	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wna	371	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1221	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1232	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1242	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1248	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1254	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497421  
NET Job No.: 98.13169

Sample Description: S-4  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 09:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.088	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
Decachlorobiphenyl (Surr)	102.0	µ	10/22/1998	NA	cls	371 42	SW 8082
2,4,5,6-TCDF (Surr)	89.0	µ	10/22/1998	NA	cls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497422  
NET Job No.: 98.13169

Sample Description: S-5  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 09:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.34	units	10/15/1998	0.10	nwg	172	SW 9045B
Solids, Total	79.5	t	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	14	mg/kg dw	10/26/1998	0.63	mhp	224 662	SW 7060
Barium, ICP	478	mg/kg dw	10/28/1998	1.3	jtt	1151 2160	SW 6010B
Cadmium, ICP	3.1	mg/kg dw	10/24/1998	0.63	kdw	1151 2139	SW 6010B
Chromium, ICP	50	mg/kg dw	10/24/1998	2.5	kdw	1151 2125	SW 6010B
Lead, ICP	327	mg/kg dw	10/24/1998	5.0	kdw	1151 2361	SW 6010B
Mercury, CVAA	0.36	mg/kg dw	10/23/1998	0.050	sep	660 764	SW 7471A
Selenium, GFAA	0.53	mg/kg dw	10/26/1998	0.31	mhp	224 549	SW 7740
Silver, AA	<2.5	mg/kg dw	10/26/1998	2.5	sep	482 566	SW 7760
<hr/>							
Prep, TPH 8015M - NONAQUEOUS	extracted		10/19/1998		mmv	239	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<63	mg/kg dw	10/29/1998	63	out	239 485	SW 8015M
TPH as Diesel	<63	mg/kg dw	10/29/1998	63	out	239 485	SW 8015M
TPH as Oil	448	mg/kg dw	10/29/1998	63	out	239 485	SW 8015M
N-octacosane (TPH surr)	106.0	t	10/29/1998		out	239 485	SW 8015M
<hr/>							
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Toluene	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/20/1998	0.006	jap	43	SW 8260A
Dibromofluoromethane (Surr)	91.0	t	10/20/1998	81-129	jap	43	SW 8260A
Toluene-d8 (Surr)	98.8	t	10/20/1998	74-129	jap	43	SW 8260A
4-Bromofluoromethane (Surr)	93.8	t	10/20/1998	70-130	jap	43	SW 8260A
<hr/>							
Prep, 8310 PNA's NON-AQUEOUS	COMPLETE		10/19/1998		mm	762	SW 3540C





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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497422

NET Job No.: 98.13169

Sample Description: S-5  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 09:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	4.8	mg/kg dw	10/22/1998	0.025	rmm	762 1814	SW 8310
Acenaphthylene	<0.025	mg/kg dw	10/22/1998	0.025	rmm	762 1814	SW 8310
Anthracene	7.3	mg/kg dw	10/22/1998	0.050	rmm	762 1814	SW 8310
Benzo (a) anthracene	14	mg/kg dw	10/22/1998	0.013	rmm	762 1814	SW 8310
Benzo (b) fluoranthene	4.5	mg/kg dw	10/22/1998	0.013	rmm	762 1814	SW 8310
Benzo (k) fluoranthene	4.3	mg/kg dw	10/22/1998	0.013	rmm	762 1814	SW 8310
Benzo (a) pyrene	10	mg/kg dw	10/22/1998	0.013	rmm	762 1814	SW 8310
Benzo (ghi) perylene	7.7	mg/kg dw	10/22/1998	0.050	rmm	762 1814	SW 8310
Chrysene	11	mg/kg dw	10/22/1998	0.038	rmm	762 1814	SW 8310
Dibenzo (a, h) anthracene	1.1	mg/kg dw	10/22/1998	0.013	rmm	762 1814	SW 8310
Fluoranthene	38	mg/kg dw	10/22/1998	0.025	rmm	762 1814	SW 8310
Fluorene	5.0	mg/kg dw	10/22/1998	0.025	rmm	762 1814	SW 8310
Indeno (1, 2, 3-cd) pyrene	5.2	mg/kg dw	10/22/1998	0.013	rmm	762 1814	SW 8310
Naphthalene	0.77	mg/kg dw	10/22/1998	0.031	rmm	762 1814	SW 8310
Phenanthrene	36	mg/kg dw	10/22/1998	0.050	rmm	762 1814	SW 8310
Pyrene	31	mg/kg dw	10/22/1998	0.025	rmm	762 1814	SW 8310
Surr: p-Terphenyl	54.0	†	10/22/1998	43-125	rmm	762 1814	SW 8310
<b>PCB Non-Aqueous Extraction</b>							
PCB'S NON-AQUEOUS	COMPLETE		10/19/1998	COMPLETE	vna	371	SW 3540C
PCB-1016	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1221	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1232	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1242	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1248	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1254	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
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740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497422

NET Job No.: 98.13169

Sample Description: S-5  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 09:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.12	mg/kg dw	10/22/1998	0.050	tlc	371 42	SW 8082
Decachlorobiphenyl (Surr)	108.0	†	10/22/1998	NA	tlc	371 42	SW 8082
2,4,5,6-TCMX (Surr)	84.0	†	10/22/1998	NA	tlc	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497423  
NET Job No.: 98.13169

Sample Description: S-6  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.32	units	10/15/1998	0.10	nwg	172	SW 9045B
Solids, Total	98.0	%	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	3.9	mg/kg dw	10/26/1998	0.51	mhp	224 662	SW 7060
Barium, ICP	143	mg/kg dw	10/28/1998	1.0	jtt	1151 2160	SW 6010B
Cadmium, ICP	0.99	mg/kg dw	10/24/1998	0.51	kdw	1151 2139	SW 6010B
Chromium, ICP	15	mg/kg dw	10/24/1998	2.0	kdw	1151 2125	SW 6010B
Lead, ICP	37	mg/kg dw	10/24/1998	4.1	kdw	1151 2361	SW 6010B
Mercury, CVAA	<0.041	mg/kg dw	10/23/1998	0.041	sep	660 764	SW 7471A
Selenium, GPAA	0.32	mg/kg dw	10/26/1998	0.26	mhp	224 549	SW 7740
Silver, AA	2.7	mg/kg dw	10/26/1998	2.0	sep	482 566	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/19/1998		mmv	239	SW 8015M
TPH as Gas	<510	mg/kg dw	10/29/1998	51	out	239 485	SW 8015M
TPH as Diesel	<510	mg/kg dw	10/29/1998	51	out	239 485	SW 8015M
TPH as Oil	21,600	PT mg/kg dw	10/29/1998	51	out	239 485	SW 8015M
N-octacosane (TPH surr)	106.0	%	10/29/1998		out	239 485	SW 8015M
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Toluene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Dibromofluoromethane (Surr)	106.8	%	10/20/1998	81-129	jap	43	SW 8260A
Toluene-d8 (Surr)	87.0	%	10/20/1998	74-129	jap	43	SW 8260A
4-Bromofluoromethane (Surr)	95.2	%	10/20/1998	70-130	jap	43	SW 8260A
Prep, 8310 PNA <sub>s</sub> NON-AQUEOUS	COMPLETE		10/19/1998		ram	762	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497423  
NET Job No.: 98.13169

Sample Description: S-6  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.020	mg/kg dw	10/21/1998	0.020	rmm	762 1815	SW 8310
Acenaphthylene	<0.020	mg/kg dw	10/21/1998	0.020	rmm	762 1815	SW 8310
Anthracene	0.12	mg/kg dw	10/21/1998	0.041	rmm	762 1815	SW 8310
Benzo (a) anthracene	1.3	mg/kg dw	10/21/1998	0.010	rmm	762 1815	SW 8310
Benzo (b) fluoranthene	0.19	mg/kg dw	10/21/1998	0.010	rmm	762 1815	SW 8310
Benzo (k) fluoranthene	0.17	mg/kg dw	10/21/1998	0.010	rmm	762 1815	SW 8310
Benzo (a) pyrene	0.27	mg/kg dw	10/21/1998	0.010	rmm	762 1815	SW 8310
Benzo (ghi) perylene	0.38	mg/kg dw	10/21/1998	0.041	rmm	762 1815	SW 8310
Chrysene	0.57	mg/kg dw	10/21/1998	0.031	rmm	762 1815	SW 8310
Dibenzo (a, h) anthracene	<0.010	mg/kg dw	10/21/1998	0.010	rmm	762 1815	SW 8310
Fluoranthene	1.2	mg/kg dw	10/21/1998	0.020	rmm	762 1815	SW 8310
Fluorene	0.42	mg/kg dw	10/21/1998	0.020	rmm	762 1815	SW 8310
Indeno (1, 2, 3-cd) pyrene	<0.010	mg/kg dw	10/21/1998	0.010	rmm	762 1815	SW 8310
Naphthalene	<0.026	mg/kg dw	10/21/1998	0.026	rmm	762 1815	SW 8310
Phenanthrene	0.34	mg/kg dw	10/21/1998	0.041	rmm	762 1815	SW 8310
Pyrene	1.8	mg/kg dw	10/21/1998	0.020	rmm	762 1815	SW 8310
Surr: p-Terphenyl	69.0	t	10/21/1998	43-125	rmm	762 1815	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wma	371	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.041	mg/kg dw	10/22/1998	0.041	cls	371 42	SW 8082
PCB-1221	<0.041	mg/kg dw	10/22/1998	0.041	cls	371 42	SW 8082
PCB-1232	<0.041	mg/kg dw	10/22/1998	0.041	cls	371 42	SW 8082
PCB-1242	<0.041	mg/kg dw	10/22/1998	0.041	cls	371 42	SW 8082
PCB-1248	<0.041	mg/kg dw	10/22/1998	0.041	cls	371 42	SW 8082
PCB-1254	<0.041	mg/kg dw	10/22/1998	0.041	cls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497423  
NET Job No.: 98.13169

Sample Description: S-6  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.041	mg/kg dw	10/22/1998	0.041	tls	371 42	SW 8082
Decachlorobiphenyl (Surr)	94.0	µ	10/22/1998	NA	tls	371 42	SW 8082
2,4,5,6-TCMX (Surr)	80.0	µ	10/22/1998	NA	tls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497424  
NET Job No.: 98.13169

Sample Description: S-7  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 10:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.42	units	10/15/1998	0.10	nwg	172	SW 9045B
Solids, Total	99.1	g	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	5.7	mg/kg dw	10/26/1998	0.50	mhp	224 662	SW 7060
Barium, ICP	293	mg/kg dw	10/28/1998	1.0	jtt	1151 2160	SW 6010B
Cadmium, ICP	0.70	mg/kg dw	10/24/1998	0.50	kdw	1151 2139	SW 6010B
Chromium, ICP	7.0	mg/kg dw	10/24/1998	2.0	kdw	1151 2125	SW 6010B
Lead, ICP	8.7	mg/kg dw	10/24/1998	4.0	kdw	1151 2361	SW 6010B
Mercury, CVAA	<0.040	mg/kg dw	10/23/1998	0.040	sep	660 764	SW 7471A
Selenium, GFAA	0.32	mg/kg dw	10/26/1998	0.25	mhp	224 549	SW 7740
Silver, AA	2.8	mg/kg dw	10/26/1998	2.0	sep	482 566	SW 7760
<hr/>							
Prep. TPH 8015M - NONAQUEOUS	extracted		10/19/1998		mmv	239	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<505	mg/kg dw	10/29/1998	50	out	239 485	SW 8015M
TPH as Diesel	<505	mg/kg dw	10/29/1998	50	out	239 485	SW 8015M
TPH as Oil	19,400	PT mg/kg dw	10/29/1998	50	out	239 485	SW 8015M
N-octacosane (TPH surr)	70.0	g	10/29/1998		out	239 485	SW 8015M
<hr/>							
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Toluene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Dibromofluoromethane (Surr)	114.0	g	10/20/1998	81-129	jap	43	SW 8260A
Toluene-d8 (Surr)	76.0	g	10/20/1998	74-129	jap	43	SW 8260A
4-Bromofluoromethane (Surr)	84.0	g	10/20/1998	70-130	jap	43	SW 8260A
<hr/>							
Prep. 8310 PNAa NON-AQUEOUS	COMPLETE		10/19/1998		mm	762	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497424

NET Job No.: 98.13169

Sample Description: S-7  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 10:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.020	mg/kg dw	10/21/1998	0.020	zmm	762 1815	SW 8310
Acenaphthylene	<0.020	mg/kg dw	10/21/1998	0.020	zmm	762 1815	SW 8310
Anthracene	<0.040	mg/kg dw	10/21/1998	0.040	zmm	762 1815	SW 8310
Benzo (a) anthracene	<0.010	mg/kg dw	10/21/1998	0.010	zmm	762 1815	SW 8310
Benzo (b) fluoranthene	<0.010	mg/kg dw	10/21/1998	0.010	zmm	762 1815	SW 8310
Benzo (k) fluoranthene	<0.010	mg/kg dw	10/21/1998	0.010	zmm	762 1815	SW 8310
Benzo (a) pyrene	<0.010	mg/kg dw	10/21/1998	0.010	zmm	762 1815	SW 8310
Benzo (ghi) perylene	<0.040	mg/kg dw	10/21/1998	0.040	zmm	762 1815	SW 8310
Chrysene	<0.030	mg/kg dw	10/21/1998	0.030	zmm	762 1815	SW 8310
Dibenzo (a, h) anthracene	<0.010	mg/kg dw	10/21/1998	0.010	zmm	762 1815	SW 8310
Fluoranthene	<0.020	mg/kg dw	10/21/1998	0.020	zmm	762 1815	SW 8310
Fluorene	0.052	mg/kg dw	10/21/1998	0.020	zmm	762 1815	SW 8310
Indeno (1,2,3-cd) pyrene	<0.010	mg/kg dw	10/21/1998	0.010	zmm	762 1815	SW 8310
Naphthalene	<0.025	mg/kg dw	10/21/1998	0.025	zmm	762 1815	SW 8310
Phenanthrene	<0.040	mg/kg dw	10/21/1998	0.040	zmm	762 1815	SW 8310
Pyrene	0.090	mg/kg dw	10/21/1998	0.020	zmm	762 1815	SW 8310
Surr: p-Terphenyl	65.0	µ	10/21/1998	43-125	zmm	762 1815	SW 8310
<b>PCB Non-Aqueous Extraction</b>							
PCB'S NON-AQUEOUS	COMPLETE		10/19/1998	COMPLETE	vna	371	SW 3540C
PCB-1016	<0.040	mg/kg dw	10/22/1998	0.040	tls	371 42	SW 8082
PCB-1221	<0.040	mg/kg dw	10/22/1998	0.040	tls	371 42	SW 8082
PCB-1232	<0.040	mg/kg dw	10/22/1998	0.040	tls	371 42	SW 8082
PCB-1242	<0.040	mg/kg dw	10/22/1998	0.040	tls	371 42	SW 8082
PCB-1246	<0.040	mg/kg dw	10/22/1998	0.040	tls	371 42	SW 8082
PCB-1254	<0.040	mg/kg dw	10/22/1998	0.040	tls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497424

NET Job No.: 98.13169

Sample Description: S-7  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 10:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.040	mg/kg dw	10/22/1998	0.040	cls	371 42	SW 8082
Decachlorobiphenyl (Surr)	75.0	†	10/22/1998	NA	cls	371 42	SW 8082
2,4,5,6-TCMX (Surr)	79.0	†	10/22/1998	NA	cls	371 42	SW 8082





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
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11/04/1998  
Sample No. : 497425  
NET Job No.: 98.13169

Sample Description: B-8  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 10:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	6.51	units	10/15/1998	0.10	nwg	172	SW 9045B
Solids, Total	97.1	¢	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	3.5	mg/kg dw	10/26/1998	0.51	mhp	224 662	SW 7060
Barium, ICP	505	mg/kg dw	10/28/1998	1.0	jct	1151 2160	SW 6010B
Cadmium, ICP	3.1	mg/kg dw	10/24/1998	0.51	kdw	1151 2139	SW 6010B
Chromium, ICP	46	mg/kg dw	10/24/1998	2.1	kdw	1151 2125	SW 6010B
Lead, ICP	46	mg/kg dw	10/24/1998	4.1	kdw	1151 2361	SW 6010B
Mercury, CVAA	0.071	mg/kg dw	10/27/1998	0.041	sep	662 767	SW 7471A
Selenium, GFAA	0.27	mg/kg dw	10/26/1998	0.26	mhp	224 549	SW 7740
Silver, AA	<2.1	mg/kg dw	10/26/1998	2.1	sep	482 566	SW 7760
Prep. TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/19/1998		mmv	239	SW 8015M
TPH as Gas	<515	mg/kg dw	10/29/1998	51	out	239 485	SW 8015M
TPH as Diesel	<515	mg/kg dw	10/29/1998	51	out	239 485	SW 8015M
TPH as Oil	69,300	PT mg/kg dw	10/29/1998	51	out	239 485	SW 8015M
N-octacosane (TPH surr)	47.0	¢	10/29/1998		out	239 485	SW 8015M
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Toluene	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/20/1998	0.005	jap	43	SW 8260A
Dibromofluoromethane (Surr)	118.2	¢	10/20/1998	81-129	jap	43	SW 8260A
Toluene-d8 (Surr)	106.0	¢	10/20/1998	74-129	jap	43	SW 8260A
4-Bromofluoromethane (Surr)	106.2	¢	10/20/1998	70-130	jap	43	SW 8260A
Prep. 8310 PNA's NON-AQUEOUS	COMPLETE		10/19/1998		mm	762	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497425

NET Job No.: 98.13169

Sample Description: B-8  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 10:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.085	mg/kg dw	10/22/1998	0.021	rmm	762 1814	SW 8310
Acenaphthylene	<0.085	mg/kg dw	10/22/1998	0.021	rmm	762 1814	SW 8310
Anthracene	<0.18	mg/kg dw	10/22/1998	0.041	rmm	762 1814	SW 8310
Benzo(a)anthracene	0.44	mg/kg dw	10/22/1998	0.010	rmm	762 1814	SW 8310
Benzo(b)fluoranthene	0.60	mg/kg dw	10/22/1998	0.010	rmm	762 1814	SW 8310
Benzo(k)fluoranthene	1.4	mg/kg dw	10/22/1998	0.010	rmm	762 1814	SW 8310
Benzo(a)pyrene	<0.043	mg/kg dw	10/22/1998	0.010	rmm	762 1814	SW 8310
Benzo(ghi)perylene	<0.18	mg/kg dw	10/22/1998	0.041	rmm	762 1814	SW 8310
Chrysene	0.54	mg/kg dw	10/22/1998	0.031	rmm	762 1814	SW 8310
Dibenzo(a,h)anthracene	<0.043	mg/kg dw	10/22/1998	0.010	rmm	762 1814	SW 8310
Fluoranthene	1.5	mg/kg dw	10/22/1998	0.021	rmm	762 1814	SW 8310
Fluorene	2.8	mg/kg dw	10/22/1998	0.021	rmm	762 1814	SW 8310
Indeno(1,2,3-cd)pyrene	<0.043	mg/kg dw	10/22/1998	0.010	rmm	762 1814	SW 8310
Naphthalene	<0.10	mg/kg dw	10/22/1998	0.026	rmm	762 1814	SW 8310
Phenanthrene	1.4	mg/kg dw	10/22/1998	0.041	rmm	762 1814	SW 8310
Pyrene	1.4	mg/kg dw	10/22/1998	0.021	rmm	762 1814	SW 8310
Surr: p-Terphenyl	Diluted out		10/22/1998	43-125	rmm	762 1814	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wna	371	SW 3540C
PCB'S NON-AQUEOUS	ELV						
PCB-1016	<0.1	mg/kg dw	10/22/1998	0.041	tls	371 44	SW 8082
PCB-1221	<0.1	mg/kg dw	10/22/1998	0.041	tls	371 44	SW 8082
PCB-1232	<0.1	mg/kg dw	10/22/1998	0.041	tls	371 44	SW 8082
PCB-1242	<0.1	mg/kg dw	10/22/1998	0.041	tls	371 44	SW 8082
PCB-1248	<0.1	mg/kg dw	10/22/1998	0.041	tls	371 44	SW 8082
PCB-1254	<0.1	mg/kg dw	10/22/1998	0.041	tls	371 44	SW 8082

ELV : Elevated reporting limits due to sample matrix



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497425  
NET Job No.: 98.13169

Sample Description: B-8  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 10:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results		Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.1		mg/kg dw	10/22/1998	0.041	cls	371 44	SW 8082
Decachlorobiphenyl (Surr)	5.0	RM	µ	10/22/1998	NA	cls	371 44	SW 8082
2,4,5,6-TCDF (Surr)	71.0		µ	10/22/1998	NA	cls	371 44	SW 8082

RM : Low surrogate recovery due to sample matrix.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497426  
NET Job No.: 98.13169

Sample Description: S-9  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 11:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.66	units	10/15/1998	0.10	nwg	172	SM 9045B
Solids, Total	55.4	¢	11/03/1998	0.1	efw	2521	SM 2540
Arsenic, GFAA	3.4	mg/kg dw	10/26/1998	0.90	mhp	224 662	SM 7060
Barium, ICP	632	mg/kg dw	10/30/1998	1.8	jtt	1153-2169	SM 6010B
Cadmium, ICP	2.7	mg/kg dw	10/30/1998	0.90	jtt	1153 2155	SM 6010B
Chromium, ICP	11	mg/kg dw	10/30/1998	3.6	jtt	1153 2140	SM 6010B
Lead, ICP	100	mg/kg dw	11/02/1998	7.2	jtt	1153 2382	SM 6010B
Mercury, CVAA	0.14	mg/kg dw	10/27/1998	0.072	sep	662 767	SM 7471A
Selenium, GFAA	<0.45	mg/kg dw	10/26/1998	0.45	mhp	224 549	SM 7740
Silver, AA	<3.6	mg/kg dw	10/27/1998	3.6	sep	485 567	SM 7760

Prep, TPH 8015M - NONAQUEOUS	extracted		10/19/1998		mmv	239	SM 8015M
TPH MODIFIED 8015							
TPH as Gas	<90	mg/kg dw	10/29/1998	90	out	239 485	SM 8015M
TPH as Diesel	<90	mg/kg dw	10/29/1998	90	out	239 485	SM 8015M
TPH as Oil	1,900	PT mg/kg dw	10/29/1998	90	out	239 485	SM 8015M
N-octacosane (TPH surr)	103.0	¢	10/29/1998		out	239 485	SM 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.009	mg/kg dw	10/20/1998	0.009	jap	44	SM 8260A
Ethylbenzene	<0.009	mg/kg dw	10/20/1998	0.009	jap	44	SM 8260A
Toluene	<0.009	mg/kg dw	10/20/1998	0.009	jap	44	SM 8260A
Xylenes, Total	<0.009	mg/kg dw	10/20/1998	0.009	jap	44	SM 8260A
Dibromofluoromethane (Surr)	110.0	¢	10/20/1998	81-129	jap	44	SM 8260A
Toluene-d8 (Surr)	92.0	¢	10/20/1998	74-129	jap	44	SM 8260A
4-Bromofluoromethane (Surr)	82.0	¢	10/20/1998	70-130	jap	44	SM 8260A
Prep, 8310 PNAs NON-AQUEOUS	COMPLETE		10/19/1998		mm	762	SM 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497426

NET Job No.: 98.13169

Sample Description: S-9  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 11:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PMA CMFDS - 8310 NONAQUEOUS</b>							
Acenaphthene	4.3	mg/kg dw	10/22/1998	0.036	rmm	762 1814	SW 8310
Acenaphthylene	<0.036	mg/kg dw	10/22/1998	0.036	rmm	762 1814	SW 8310
Anthracene	8.5	mg/kg dw	10/22/1998	0.072	rmm	762 1814	SW 8310
Benzo (a) anthracene	18	mg/kg dw	10/22/1998	0.018	rmm	762 1814	SW 8310
Benzo (b) fluoranthene	9.2	mg/kg dw	10/22/1998	0.018	rmm	762 1814	SW 8310
Benzo (k) fluoranthene	9.0	mg/kg dw	10/22/1998	0.018	rmm	762 1814	SW 8310
Benzo (a) pyrene	20	mg/kg dw	10/22/1998	0.018	rmm	762 1814	SW 8310
Benzo (ghi) perylene	15	mg/kg dw	10/22/1998	0.072	rmm	762 1814	SW 8310
Chrysene	2.2	mg/kg dw	10/22/1998	0.054	rmm	762 1814	SW 8310
Dibenzo (a,h) anthracene	2.7	mg/kg dw	10/22/1998	0.018	rmm	762 1814	SW 8310
Fluoranthene	49	mg/kg dw	10/22/1998	0.036	rmm	762 1814	SW 8310
Fluorene	4.2	mg/kg dw	10/22/1998	0.036	rmm	762 1814	SW 8310
Indeno (1,2,3-cd) pyrene	10	mg/kg dw	10/22/1998	0.018	rmm	762 1814	SW 8310
Naphthalene	<0.045	mg/kg dw	10/22/1998	0.045	rmm	762 1814	SW 8310
Phenanthrene	32	mg/kg dw	10/22/1998	0.072	rmm	762 1814	SW 8310
Pyrene	43	mg/kg dw	10/22/1998	0.036	rmm	762 1814	SW 8310
Surr: p-Terphenyl	81.0	†	10/22/1998	43-125	rmm	762 1814	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wma	371	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.072	mg/kg dw	10/22/1998	0.072	cls	371 42	SW 8082
PCB-1221	<0.072	mg/kg dw	10/22/1998	0.072	cls	371 42	SW 8082
PCB-1232	<0.072	mg/kg dw	10/22/1998	0.072	cls	371 42	SW 8082
PCB-1242	<0.072	mg/kg dw	10/22/1998	0.072	cls	371 42	SW 8082
PCB-1248	<0.072	mg/kg dw	10/22/1998	0.072	cls	371 42	SW 8082
PCB-1254	<0.072	mg/kg dw	10/22/1998	0.072	cls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497426  
NET Job No.: 98.13169

Sample Description: S-9  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 11:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.072	mg/kg dw	10/22/1998	0.072	cls	371 42	SW 8082
Decachlorobiphenyl (Surr)	96.0	†	10/22/1998	NA	cls	371 42	SW 8082
2,4,5,6-TCMX (Surr)	72.0	†	10/22/1998	NA	cls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497427  
NET Job No.: 98.13169

Sample Description: S-10  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 11:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.64	units	10/15/1998	0.10	nwg	172	SW 9045B
Solids, Total	76.1	¢	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	9.7	M+ mg/kg dw	10/26/1998	0.66	mhp	224 662	SW 7060
Barium, ICP	618	mg/kg dw	10/28/1998	1.3	jcc	1151 2160	SW 6010B
Cadmium, ICP	2.5	mg/kg dw	10/24/1998	0.66	kdv	1151 2139	SW 6010B
Chromium, ICP	60	mg/kg dw	10/24/1998	2.6	kdv	1151 2125	SW 6010B
Lead, ICP	37	mg/kg dw	10/24/1998	5.3	kdv	1151 2361	SW 6010B
Mercury, CVAA	0.14	mg/kg dw	10/27/1998	0.053	sep	662 767	SW 7471A
Selenium, GFAA	<0.33	mg/kg dw	10/27/1998	0.33	mhp	224 550	SW 7740
Silver, AA	<2.6	mg/kg dw	10/26/1998	2.6	sep	482 566	SW 7760
Prep. TPH 8015M - NONAQUEOUS	extracted		10/19/1998		mmv	239	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<66	mg/kg dw	10/29/1998	66	out	239 485	SW 8015M
TPH as Diesel	<66	mg/kg dw	10/29/1998	66	out	239 485	SW 8015M
TPH as Oil	89	mg/kg dw	10/29/1998	66	out	239 485	SW 8015M
N-octacosane (TPH surr)	106.0	¢	10/29/1998		out	239 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Toluene	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	10/21/1998	0.007	jap	45	SW 8260A
Dibromofluoromethane (Surr)	106.0	¢	10/21/1998	81-129	jap	45	SW 8260A
Toluene-d8 (Surr)	112.0	¢	10/21/1998	74-129	jap	45	SW 8260A
4-Bromofluoromethane (Surr)	106.0	¢	10/21/1998	70-130	jap	45	SW 8260A
Prep. 8310 PNAS NON-AQUEOUS	COMPLETE		10/19/1998		rmm	762	SW 3540C

M+ : Analyte quantified by MSA due to low spike recovery.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497427

NET Job No.: 98.13169

Sample Description: S-10  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 11:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMFDS - 8310 NONAQUEOUS</b>							
Acenaphthene	0.055	mg/kg dw	10/21/1998	0.026	rmm	762 1815	SW 8310
Acenaphthylene	0.054	mg/kg dw	10/21/1998	0.026	rmm	762 1815	SW 8310
Anthracene	0.14	mg/kg dw	10/21/1998	0.053	rmm	762 1815	SW 8310
Benzo(a)anthracene	0.29	mg/kg dw	10/21/1998	0.013	rmm	762 1815	SW 8310
Benzo(b)fluoranthene	0.22	mg/kg dw	10/21/1998	0.013	rmm	762 1815	SW 8310
Benzo(k)fluoranthene	0.22	mg/kg dw	10/21/1998	0.013	rmm	762 1815	SW 8310
Benzo(a)pyrene	0.51	mg/kg dw	10/21/1998	0.013	rmm	762 1815	SW 8310
Benzo(ghi)perylene	0.12	mg/kg dw	10/21/1998	0.053	rmm	762 1815	SW 8310
Chrysene	0.43	mg/kg dw	10/21/1998	0.039	rmm	762 1815	SW 8310
Dibenzo(a,h)anthracene	0.051	mg/kg dw	10/21/1998	0.013	rmm	762 1815	SW 8310
Fluoranthene	0.71	mg/kg dw	10/21/1998	0.026	rmm	762 1815	SW 8310
Fluorene	0.068	mg/kg dw	10/21/1998	0.026	rmm	762 1815	SW 8310
Indeno(1,2,3-cd)pyrene	0.13	mg/kg dw	10/21/1998	0.013	rmm	762 1815	SW 8310
Naphthalene	0.054	mg/kg dw	10/21/1998	0.033	rmm	762 1815	SW 8310
Phenanthrene	0.62	mg/kg dw	10/21/1998	0.053	rmm	762 1815	SW 8310
Pyrene	0.81	mg/kg dw	10/21/1998	0.026	rmm	762 1815	SW 8310
Surr: p-Terphenyl	107.0	%	10/21/1998	43-125	rmm	762 1815	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wia	371	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.053	mg/kg dw	10/21/1998	0.053	jrs	371 42	SW 8082
PCB-1221	<0.053	mg/kg dw	10/21/1998	0.053	jrs	371 42	SW 8082
PCB-1232	<0.053	mg/kg dw	10/21/1998	0.053	jrs	371 42	SW 8082
PCB-1242	<0.053	mg/kg dw	10/21/1998	0.053	jrs	371 42	SW 8082
PCB-1248	<0.053	mg/kg dw	10/21/1998	0.053	jrs	371 42	SW 8082
PCB-1254	<0.053	mg/kg dw	10/21/1998	0.053	jrs	371 42	SW 8082





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497427  
NET Job No.: 98.13169

Sample Description: S-10  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 11:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.053	mg/kg dw	10/21/1998	0.053	jrs	371 42	SW 8082
Decachlorobiphenyl (Surr)	99.0	†	10/21/1998	NA	jrs	371 42	SW 8082
2,4,5,6-TCDF (Surr)	86.0	†	10/21/1998	NA	jrs	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497428  
NET Job No.: 98.13169

Sample Description: S-11  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 11:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.33	units	10/15/1998	0.10	nwg	173	SW 9045B
Solids, Total	88.0	%	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	5.5	mg/kg dw	10/26/1998	0.57	mhp	224 662	SW 7060
Barium, ICP	307	mg/kg dw	10/28/1998	1.1	jcc	1152 2160	SW 6010B
Cadmium, ICP	2.7	mg/kg dw	10/24/1998	0.57	kdw	1152 2139	SW 6010B
Chromium, ICP	14	mg/kg dw	10/24/1998	2.3	kdw	1152 2125	SW 6010B
Lead, ICP	125	mg/kg dw	10/24/1998	4.5	kdw	1152 2361	SW 6010B
Mercury, CVAA	0.10	mg/kg dw	10/27/1998	0.045	sep	662 767	SW 7471A
Selenium, GFAA	0.30	mg/kg dw	10/26/1998	0.28	mhp	224 549	SW 7740
Silver, AA	<2.3	mg/kg dw	10/26/1998	2.3	sep	483 566	SW 7760

Prep, TPH 8015M - NON-AQUEOUS	extracted		10/19/1998		mmv	239	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<57	mg/kg dw	10/29/1998	57	out	239 485	SW 8015M
TPH as Diesel	<57	mg/kg dw	10/29/1998	57	out	239 485	SW 8015M
TPH as Oil	670	mg/kg dw	10/29/1998	57	out	239 485	SW 8015M
N-octacosane (TPH surr)	101.0	%	10/29/1998		out	239 485	SW 8015M

UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	44	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	44	SW 8260A
Toluene	<0.006	mg/kg dw	10/21/1998	0.006	jap	44	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/21/1998	0.006	jap	44	SW 8260A
Dibromofluoromethane (Surr)	104.4	%	10/21/1998	81-129	jap	44	SW 8260A
Toluene-d8 (Surr)	98.4	%	10/21/1998	74-129	jap	44	SW 8260A
4-Bromofluoromethane (Surr)	86.2	%	10/21/1998	70-130	jap	44	SW 8260A

Prep, 8310 PNA's NON-AQUEOUS	COMPLETE		10/19/1998		rmm	762	SW 3540C
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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497428

NET Job No.: 98.13169

Sample Description: S-11  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 11:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PAH CMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.023	mg/kg dw	10/21/1998	0.023	rma	762 1815	SW 8310
Acenaphthylene	<0.023	mg/kg dw	10/21/1998	0.023	rma	762 1815	SW 8310
Anthracene	<0.045	mg/kg dw	10/21/1998	0.045	rma	762 1815	SW 8310
Benzo (a) anthracene	<0.011	mg/kg dw	10/21/1998	0.011	rma	762 1815	SW 8310
Benzo (b) fluoranthene	0.12	mg/kg dw	10/21/1998	0.011	rma	762 1815	SW 8310
Benzo (k) fluoranthene	<0.011	mg/kg dw	10/21/1998	0.011	rma	762 1815	SW 8310
Benzo (a) pyrene	0.16	mg/kg dw	10/21/1998	0.011	rma	762 1815	SW 8310
Benzo (ghi) perylene	<0.045	mg/kg dw	10/21/1998	0.045	rma	762 1815	SW 8310
Chrysene	0.12	mg/kg dw	10/21/1998	0.034	rma	762 1815	SW 8310
Dibenzo (a, h) anthracene	<0.011	mg/kg dw	10/21/1998	0.011	rma	762 1815	SW 8310
Fluoranthene	0.14	mg/kg dw	10/21/1998	0.023	rma	762 1815	SW 8310
Fluorene	<0.023	mg/kg dw	10/21/1998	0.023	rma	762 1815	SW 8310
Indeno (1, 2, 3-cd) pyrene	<0.011	mg/kg dw	10/21/1998	0.011	rma	762 1815	SW 8310
Naphthalene	<0.028	mg/kg dw	10/21/1998	0.028	rma	762 1815	SW 8310
Phenanthrene	0.15	mg/kg dw	10/21/1998	0.045	rma	762 1815	SW 8310
Pyrene	0.17	mg/kg dw	10/21/1998	0.023	rma	762 1815	SW 8310
Surr: p-Terphenyl	106.0	†	10/21/1998	43-125	rma	762 1815	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wna	371	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1221	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1232	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1242	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1248	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1254	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497428  
NET Job No.: 98.13169

Sample Description: S-11  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 11:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
Decachlorobiphenyl (Surr)	100.0	µ	10/22/1998	NA	cls	371 42	SW 8082
2,4,5,6-TCDF (Surr)	81.0	µ	10/22/1998	NA	cls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497429  
NET Job No.: 98.13169

Sample Description: S-12  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.70	units	10/15/1998	0.10	nwg	173	SW 9045B
Solids, Total	89.0	†	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	9.3	mg/kg dw	10/31/1998	0.56	mhp	225 667	SW 7060
Barium, ICP	831	mg/kg dw	10/28/1998	1.1	jct	1152 2160	SW 6010B
Cadmium, ICP	10	mg/kg dw	10/24/1998	0.56	kdw	1152 2139	SW 6010B
Chromium, ICP	70	mg/kg dw	10/24/1998	2.2	kdw	1152 2125	SW 6010B
Lead, ICP	831	mg/kg dw	10/24/1998	4.5	kdw	1152 2361	SW 6010B
Mercury, CVAA	0.12	mg/kg dw	10/27/1998	0.045	sep	662 767	SW 7471A
Selenium, GFAA	0.31	mg/kg dw	11/01/1998	0.28	mhp	225 553	SW 7740
Silver, AA	<2.2	mg/kg dw	10/26/1998	2.2	sep	483 566	SW 7760
Prep. TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/19/1998		mmv	239	SW 8015M
TPH as Gas	<56	mg/kg dw	10/29/1998	56	out	239 485	SW 8015M
TPH as Diesel	<56	mg/kg dw	10/29/1998	56	out	239 485	SW 8015M
TPH as Oil	1,330	mg/kg dw	10/29/1998	56	out	239 485	SW 8015M
N-octacosane (TPH surr)	99.0	†	10/29/1998		out	239 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	44	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	44	SW 8260A
Toluene	<0.006	mg/kg dw	10/21/1998	0.006	jap	44	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/21/1998	0.006	jap	44	SW 8260A
Dibromofluoromethane (Surr)	104.8	†	10/21/1998	81-129	jap	44	SW 8260A
Toluene-d8 (Surr)	99.8	†	10/21/1998	74-129	jap	44	SW 8260A
4-Bromofluoromethane (Surr)	104.8	†	10/21/1998	70-130	jap	44	SW 8260A
Prep. 8310 PNAa NON-AQUEOUS	COMPLETE		10/19/1998		zmm	762	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497429  
NET Job No.: 98.13169

Sample Description: S-12  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA COMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	0.31	mg/kg dw	10/21/1998	0.022	xmm	762 1815	SW 8310
Acenaphthylene	<0.022	mg/kg dw	10/21/1998	0.022	xmm	762 1815	SW 8310
Anthracene	0.53	mg/kg dw	10/21/1998	0.045	xmm	762 1815	SW 8310
Benzo(a)anthracene	1.2	mg/kg dw	10/21/1998	0.011	xmm	762 1815	SW 8310
Benzo(b)fluoranthene	0.72	mg/kg dw	10/21/1998	0.011	xmm	762 1815	SW 8310
Benzo(k)fluoranthene	0.61	mg/kg dw	10/21/1998	0.011	xmm	762 1815	SW 8310
Benzo(a)pyrene	1.7	mg/kg dw	10/21/1998	0.011	xmm	762 1815	SW 8310
Benzo(ghi)perylene	1.1	mg/kg dw	10/21/1998	0.045	xmm	762 1815	SW 8310
Chrysene	1.5	mg/kg dw	10/21/1998	0.034	xmm	762 1815	SW 8310
Dibenzo(a,h)anthracene	0.093	mg/kg dw	10/21/1998	0.011	xmm	762 1815	SW 8310
Fluoranthene	3.7	mg/kg dw	10/21/1998	0.022	xmm	762 1815	SW 8310
Fluorene	0.33	mg/kg dw	10/21/1998	0.022	xmm	762 1815	SW 8310
Indeno(1,2,3-cd)pyrene	0.67	mg/kg dw	10/21/1998	0.011	xmm	762 1815	SW 8310
Naphthalene	0.033	mg/kg dw	10/21/1998	0.028	xmm	762 1815	SW 8310
Phenanthrene	2.1	mg/kg dw	10/21/1998	0.045	xmm	762 1815	SW 8310
Pyrene	3.1	mg/kg dw	10/21/1998	0.022	xmm	762 1815	SW 8310
Surr: p-Terphenyl	52.0	t	10/21/1998	43-125	xmm	762 1815	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wna	371	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1221	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1232	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1242	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1248	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
PCB-1254	<0.045	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497429

NET Job No.: 98.13169

Sample Description: S-12  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	0.074	mg/kg dw	10/22/1998	0.045	cls	371 42	SW 8082
Decachlorobiphenyl (Surr)	107.0	†	10/22/1998	NA	cls	371 42	SW 8082
2,4,5,6-TCDF (Surr)	96.0	†	10/22/1998	NA	cls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497430  
NET Job No.: 98.13169

Sample Description: S-14  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 13:45  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.20	units	10/15/1998	0.10	nwg	173	SW 9045B
Solids, Total	80.5	†	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	11	mg/kg dw	10/31/1998	0.62	mhp	225 667	SW 7060
Barium, ICP	248	mg/kg dw	10/28/1998	1.2	jtt	1152 2160	SW 6010B
Cadmium, ICP	2.2	mg/kg dw	10/24/1998	0.62	kdw	1152 2139	SW 6010B
Chromium, ICP	37	mg/kg dw	10/24/1998	2.5	kdw	1152 2125	SW 6010B
Lead, ICP	149	mg/kg dw	10/24/1998	5.0	kdw	1152 2361	SW 6010B
Mercury, CVA	0.11	mg/kg dw	10/27/1998	0.050	sep	662 767	SW 7471A
Selenium, GPAA	<0.31	mg/kg dw	11/01/1998	0.31	mhp	225 553	SW 7740
Silver, AA	<2.5	mg/kg dw	10/26/1998	2.5	sep	483 566	SW 7760

Prep, TPH 8015M - NONAQUEOUS	extracted		10/19/1998		mmv	239	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<62	mg/kg dw	10/29/1998	62	out	239 485	SW 8015M
TPH as Diesel	<62	mg/kg dw	10/29/1998	62	out	239 485	SW 8015M
TPH as Oil	323	mg/kg dw	10/29/1998	62	out	239 485	SW 8015M
N-octacosane (TPH surr)	127.0	†	10/29/1998		out	239 485	SW 8015M

UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	44	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/21/1998	0.006	jap	44	SW 8260A
Toluene	<0.006	mg/kg dw	10/21/1998	0.006	jap	44	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/21/1998	0.006	jap	44	SW 8260A
Dibromofluoromethane (Surr)	102.6	†	10/21/1998	81-129	jap	44	SW 8260A
Toluene-d8 (Surr)	101.8	†	10/21/1998	74-129	jap	44	SW 8260A
4-Bromofluoromethane (Surr)	104.2	†	10/21/1998	70-130	jap	44	SW 8260A

Prep, 8310 PNAs NON-AQUEOUS	COMPLETE		10/19/1998		rmm	762	SW 3540C
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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497430  
NET Job No.: 98.13169

Sample Description: S-14  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 13:45  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	0.040	mg/kg dw	10/21/1998	0.025	xmm	762 1815	SW 8310
Acenaphthylene	<0.025	mg/kg dw	10/21/1998	0.025	xmm	762 1815	SW 8310
Anthracene	0.12	mg/kg dw	10/21/1998	0.050	xmm	762 1815	SW 8310
Benzo (a) anthracene	0.34	mg/kg dw	10/21/1998	0.012	xmm	762 1815	SW 8310
Benzo (b) fluoranthene	0.20	mg/kg dw	10/21/1998	0.012	xmm	762 1815	SW 8310
Benzo (k) fluoranthene	0.15	mg/kg dw	10/21/1998	0.012	xmm	762 1815	SW 8310
Benzo (a) pyrene	0.39	mg/kg dw	10/21/1998	0.012	xmm	762 1815	SW 8310
Benzo (ghi) perylene	0.14	mg/kg dw	10/21/1998	0.050	xmm	762 1815	SW 8310
Chrysene	0.36	mg/kg dw	10/21/1998	0.037	xmm	762 1815	SW 8310
Dibenzo (a, h) anthracene	0.022	mg/kg dw	10/21/1998	0.012	xmm	762 1815	SW 8310
Fluoranthene	0.68	mg/kg dw	10/21/1998	0.025	xmm	762 1815	SW 8310
Fluorene	0.036	mg/kg dw	10/21/1998	0.025	xmm	762 1815	SW 8310
Indeno (1, 2, 3-cd) pyrene	0.14	mg/kg dw	10/21/1998	0.012	xmm	762 1815	SW 8310
Naphthalene	<0.031	mg/kg dw	10/21/1998	0.031	xmm	762 1815	SW 8310
Phenanthrene	0.56	mg/kg dw	10/21/1998	0.050	xmm	762 1815	SW 8310
Pyrene	0.65	mg/kg dw	10/21/1998	0.025	xmm	762 1815	SW 8310
Surr: p-Terphenyl	50.0	µ	10/21/1998	43-125	xmm	762 1815	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/19/1998	COMPLETE	wma	371	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1221	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1232	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1242	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1248	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
PCB-1254	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497430  
NET Job No.: 98.13169

Sample Description: S-14  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 13:45  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCE-1260	<0.050	mg/kg dw	10/22/1998	0.050	cls	371 42	SW 8082
Decachlorobiphenyl (Surr)	108.0	µ	10/22/1998	NA	cls	371 42	SW 8082
2,4,5,6-TCMX (Surr)	89.0	µ	10/22/1998	NA	cls	371 42	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497434

NET Job No.: 98.13169

Sample Description: S-15  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 14:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.74	units	10/15/1998	0.10	nwg	173	SW 9045B
Solids, Total	91.3	†	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	5.7	mg/kg dw	10/31/1998	0.55	mhp	225 667	SW 7060
Barium, ICP	1,420	mg/kg dw	10/28/1998	1.1	jtc	1152 2160	SW 6010B
Cadmium, ICP	7.0	mg/kg dw	10/24/1998	0.55	kdw	1152 2139	SW 6010B
Chromium, ICP	296	mg/kg dw	10/24/1998	2.2	kdw	1152 2125	SW 6010B
Lead, ICP	2,960	mg/kg dw	10/24/1998	4.4	kdw	1152 2361	SW 6010B
Mercury, CVAA	0.15	mg/kg dw	10/27/1998	0.044	sep	662 767	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	11/01/1998	0.27	mhp	225 553	SW 7740
Silver, AA	<2.2	mg/kg dw	10/26/1998	2.2	sep	483 566	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/19/1998		mxv	239	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<2,740	mg/kg dw	10/29/1998	55	out	239 485	SW 8015M
TPH as Diesel	<2,740	mg/kg dw	10/29/1998	55	out	239 485	SW 8015M
TPH as Oil	142,000	PT mg/kg dw	10/29/1998	55	out	239 485	SW 8015M
N-octacosane (TPH surr)	102.0	†	10/29/1998		out	239 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/21/1998	0.005	jap	44	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/21/1998	0.005	jap	44	SW 8260A
Toluene	<0.005	mg/kg dw	10/21/1998	0.005	jap	44	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/21/1998	0.005	jap	44	SW 8260A
Dibromofluoromethane (Surr)	105.4	†	10/21/1998	81-129	jap	44	SW 8260A
Toluene-d8 (Surr)	97.4	†	10/21/1998	74-129	jap	44	SW 8260A
4-Bromofluoromethane (Surr)	101.8	†	10/21/1998	70-130	jap	44	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	COMPLETE		10/19/1998		xmm	762	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497434  
NET Job No.: 98.13169

Sample Description: S-15  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 14:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.036	mg/kg dw	10/21/1998	0.022	rmm	762 1815	SW 8310
Acenaphthylene	<0.036	mg/kg dw	10/21/1998	0.022	rmm	762 1815	SW 8310
Anthracene	<0.072	mg/kg dw	10/21/1998	0.044	rmm	762 1815	SW 8310
Benzo (a) anthracene	<0.018	mg/kg dw	10/21/1998	0.011	rmm	762 1815	SW 8310
Benzo (b) fluoranthene	<0.018	mg/kg dw	10/21/1998	0.011	rmm	762 1815	SW 8310
Benzo (k) fluoranthene	<0.018	mg/kg dw	10/21/1998	0.011	rmm	762 1815	SW 8310
Benzo (a) pyrene	<0.018	mg/kg dw	10/21/1998	0.011	rmm	762 1815	SW 8310
Benzo (ghi) perylene	<0.072	mg/kg dw	10/21/1998	0.044	rmm	762 1815	SW 8310
Chrysene	<0.055	mg/kg dw	10/21/1998	0.033	rmm	762 1815	SW 8310
Dibenzo (a, h) anthracene	<0.018	mg/kg dw	10/21/1998	0.011	rmm	762 1815	SW 8310
Fluoranthene	1.4	mg/kg dw	10/21/1998	0.022	rmm	762 1815	SW 8310
Fluorene	<0.036	mg/kg dw	10/21/1998	0.022	rmm	762 1815	SW 8310
Indeno (1, 2, 3-cd) pyrene	<0.018	mg/kg dw	10/21/1998	0.011	rmm	762 1815	SW 8310
Naphthalene	<0.045	mg/kg dw	10/21/1998	0.027	rmm	762 1815	SW 8310
Phenanthrene	<0.072	mg/kg dw	10/21/1998	0.044	rmm	762 1815	SW 8310
Pyrene	<0.036	mg/kg dw	10/21/1998	0.022	rmm	762 1815	SW 8310
Surr: p-Terphenyl	Masked		10/21/1998	43-125	rmm	762 1815	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wna	372	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.044	mg/kg dw	10/27/1998	0.044	cls	372 46	SW 8082
PCB-1221	<0.044	mg/kg dw	10/27/1998	0.044	cls	372 46	SW 8082
PCB-1232	<0.044	mg/kg dw	10/27/1998	0.044	cls	372 46	SW 8082
PCB-1242	<0.044	mg/kg dw	10/27/1998	0.044	cls	372 46	SW 8082
PCB-1248	<0.044	mg/kg dw	10/27/1998	0.044	cls	372 46	SW 8082
PCB-1254	<0.044	mg/kg dw	10/27/1998	0.044	cls	372 46	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497434  
NET Job No.: 98.13169

Sample Description: S-15  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 14:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	1.4	mg/kg dw	10/29/1998	0.044	cls	372 47	SW 8082
Decachlorobiphenyl (Surr)	114.0	µ	10/27/1998	NA	cls	372 46	SW 8082
2,4,5,6-TCMX (Surr)	87.0	µ	10/27/1998	NA	cls	372 46	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497435  
NET Job No.: 98.13169

Sample Description: S-16  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 14:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.24	units	10/15/1998	0.10	nwg	173	SW 9045B
Solids, Total	63.8	t	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	4.4	mg/kg dw	10/31/1998	0.78	mhp	225 667	SW 7060
Barium, ICP	831	mg/kg dw	10/28/1998	1.6	jtt	1152 2160	SW 6010B
Cadmium, ICP	2.4	mg/kg dw	10/24/1998	0.78	kdw	1152 2139	SW 6010B
Chromium, ICP	6.3	mg/kg dw	10/24/1998	3.1	kdw	1152 2125	SW 6010B
Lead, ICP	27	mg/kg dw	10/24/1998	6.3	kdw	1152 2361	SW 6010B
Mercury, CVAA	0.22	mg/kg dw	10/27/1998	0.063	sep	662 767	SW 7471A
Selenium, GPAA	<0.39	mg/kg dw	11/01/1998	0.39	mhp	225 553	SW 7740
Silver, AA	<3.1	mg/kg dw	10/26/1998	3.1	sep	483 566	SW 7760

Prep, TPH 8015M - NON-AQUEOUS	extracted			10/19/1998		mmv	239	SW-8015M
TPH MODIFIED 8015								
TPH as Gas	251	PT	mg/kg dw	10/29/1998	78	out	239 485	SW 8015M
TPH as Diesel	<78		mg/kg dw	10/29/1998	78	out	239 485	SW 8015M
TPH as Oil	3,460	PT	mg/kg dw	10/29/1998	78	out	239 485	SW 8015M
N-octacosane (TPH surr)	108.0		t	10/29/1998		out	239 485	SW 8015M

UST VOLATILES NON-AQUEOUS								
Benzene	<0.008		mg/kg dw	10/20/1998	0.008	jap	44	SW 8260A
Ethylbenzene	<0.008		mg/kg dw	10/20/1998	0.008	jap	44	SW 8260A
Toluene	<0.008		mg/kg dw	10/20/1998	0.008	jap	44	SW 8260A
Xylenes, Total	<0.008		mg/kg dw	10/20/1998	0.008	jap	44	SW 8260A
Dibromofluoromethane (Surr)	136.0	R	t	10/20/1998	81-129	jap	44	SW 8260A
Toluene-d8 (Surr)	62.0	R	t	10/20/1998	74-129	jap	44	SW 8260A
4-Bromofluoromethane (Surr)	84.0		t	10/20/1998	70-130	jap	44	SW 8260A

Prep, 8310 PNA's NON-AQUEOUS	COMPLETE			10/19/1998		mm	762	SW 3540C
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PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the gas and oil range.  
R : Surrogate recovery verified by re-analysis.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497435  
NET Job No.: 98.13169

Sample Description: S-16  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 14:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMFDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.031	mg/kg dw	10/22/1998	0.031	rmm	762 1814	SW 8310
Acenaphthylene	<0.031	mg/kg dw	10/22/1998	0.031	rmm	762 1814	SW 8310
Anthracene	<0.063	mg/kg dw	10/22/1998	0.063	rmm	762 1814	SW 8310
Benzo(a)anthracene	<0.016	mg/kg dw	10/22/1998	0.016	rmm	762 1814	SW 8310
Benzo(b)fluoranthene	1.3	mg/kg dw	10/22/1998	0.016	rmm	762 1814	SW 8310
Benzo(k)fluoranthene	<0.016	mg/kg dw	10/22/1998	0.016	rmm	762 1814	SW 8310
Benzo(a)pyrene	3.0	mg/kg dw	10/22/1998	0.016	rmm	762 1814	SW 8310
Benzo(ghi)perylene	<0.063	mg/kg dw	10/22/1998	0.063	rmm	762 1814	SW 8310
Chrysene	1.7	mg/kg dw	10/22/1998	0.047	rmm	762 1814	SW 8310
Dibenzo(a,h)anthracene	0.20	mg/kg dw	10/22/1998	0.016	rmm	762 1814	SW 8310
Fluoranthene	0.97	mg/kg dw	10/22/1998	0.031	rmm	762 1814	SW 8310
Fluorene	<0.031	mg/kg dw	10/22/1998	0.031	rmm	762 1814	SW 8310
Indeno(1,2,3-cd)pyrene	<0.016	mg/kg dw	10/22/1998	0.016	rmm	762 1814	SW 8310
Naphthalene	<0.039	mg/kg dw	10/22/1998	0.039	rmm	762 1814	SW 8310
Phenanthrene	0.82	mg/kg dw	10/22/1998	0.063	rmm	762 1814	SW 8310
Pyrene	2.0	mg/kg dw	10/22/1998	0.031	rmm	762 1814	SW 8310
Surr: p-Terphenyl	78.0	t	10/22/1998	43-125	rmm	762 1814	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wra	372	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.063	mg/kg dw	10/27/1998	0.063	cls	372 46	SW 8082
PCB-1221	<0.063	mg/kg dw	10/27/1998	0.063	cls	372 46	SW 8082
PCB-1232	<0.063	mg/kg dw	10/27/1998	0.063	cls	372 46	SW 8082
PCB-1242	<0.063	mg/kg dw	10/27/1998	0.063	cls	372 46	SW 8082
PCB-1248	<0.063	mg/kg dw	10/27/1998	0.063	cls	372 46	SW 8082
PCB-1254	<0.063	mg/kg dw	10/27/1998	0.063	cls	372 46	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497435

NET Job No.: 98.13169

Sample Description: S-16  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 14:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.063	mg/kg dw	10/27/1998	0.063	cls	372 46	SW 8082
Decachlorobiphenyl (Surr)	90.0	%	10/27/1998	NA	cls	372 46	SW 8082
2,4,5,6-TCMX (Surr)	74.0	%	10/27/1998	NA	cls	372 46	SW 8082





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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497436

NET Job No.: 98.13169

Sample Description: S-17  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 14:45  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.70	units	10/15/1998	0.10	nwg	173	SW 9045B
Solids, Total	58.4	†	11/02/1998	0.1	nwg	2517	SM 2540
Arsenic, GFAA	3.8	mg/kg dw	10/31/1998	0.86	mhp	225 667	SW 7060
Barium, ICP	805	mg/kg dw	10/28/1998	1.7	jct	1152 2160	SW 6010B
Cadmium, ICP	<0.86	mg/kg dw	10/24/1998	0.86	kdw	1152 2139	SW 6010B
Chromium, ICP	7.7	mg/kg dw	10/24/1998	3.4	kdw	1152 2125	SW 6010B
Lead, ICP	22	mg/kg dw	10/24/1998	6.8	kdw	1152 2361	SW 6010B
Mercury, CVA	0.10	mg/kg dw	10/27/1998	0.068	sep	662 767	SW 7471A
Selenium, GFAA	<0.43	mg/kg dw	11/02/1998	0.43	mhp	225 554	SW 7740
Silver, AA	<3.4	mg/kg dw	10/26/1998	3.4	sep	483 566	SW 7760
Prep. TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/19/1998		mmv	239	SW 8015M
TPH as Gas	257	PT mg/kg dw	10/29/1998	86	out	239 485	SW 8015M
TPH as Diesel	<86	mg/kg dw	10/29/1998	86	out	239 485	SW 8015M
TPH as Oil	3,070	PT mg/kg dw	10/29/1998	86	out	239 485	SW 8015M
N-octacosane (TPH surr)	114.0	†	10/29/1998		out	239 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.009	mg/kg dw	10/20/1998	0.009	jap	44	SW 8260A
Ethylbenzene	<0.009	mg/kg dw	10/20/1998	0.009	jap	44	SW 8260A
Toluene	<0.009	mg/kg dw	10/20/1998	0.009	jap	44	SW 8260A
Xylenes, Total	<0.009	mg/kg dw	10/20/1998	0.009	jap	44	SW 8260A
Dibromofluoromethane (Surr)	116.0	†	10/20/1998	81-129	jap	44	SW 8260A
Toluene-d8 (Surr)	84.0	†	10/20/1998	74-129	jap	44	SW 8260A
4-Bromofluoromethane (Surr)	92.0	†	10/20/1998	70-130	jap	44	SW 8260A
Prep. 8110 FNAs NON-AQUEOUS	COMPLETE		10/19/1998		rma	762	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the gas/oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497436

NET Job No. : 98.13169

Sample Description: S-17  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 14:45  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.034	mg/kg dw	10/22/1998	0.034	rma	762 1814	SW 8310
Acenaphthylene	<0.034	mg/kg dw	10/22/1998	0.034	rma	762 1814	SW 8310
Anthracene	<0.068	mg/kg dw	10/22/1998	0.068	rma	762 1814	SW 8310
Benzo(a)anthracene	<0.017	mg/kg dw	10/22/1998	0.017	rma	762 1814	SW 8310
Benzo(b)fluoranthene	1.7	mg/kg dw	10/22/1998	0.017	rma	762 1814	SW 8310
Benzo(k)fluoranthene	<0.017	mg/kg dw	10/22/1998	0.017	rma	762 1814	SW 8310
Benzo(a)pyrene	<0.017	mg/kg dw	10/22/1998	0.017	rma	762 1814	SW 8310
Benzo(ghi)perylene	<0.068	mg/kg dw	10/22/1998	0.068	rma	762 1814	SW 8310
Chrysene	<0.051	mg/kg dw	10/22/1998	0.051	rma	762 1814	SW 8310
Dibenzo(a,h)anthracene	<0.017	mg/kg dw	10/22/1998	0.017	rma	762 1814	SW 8310
Fluoranthene	0.51	mg/kg dw	10/22/1998	0.034	rma	762 1814	SW 8310
Fluorene	<0.034	mg/kg dw	10/22/1998	0.034	rma	762 1814	SW 8310
Indeno(1,2,3-cd)pyrene	<0.017	mg/kg dw	10/22/1998	0.017	rma	762 1814	SW 8310
Naphthalene	<0.043	mg/kg dw	10/22/1998	0.043	rma	762 1814	SW 8310
Phenanthrene	0.72	mg/kg dw	10/22/1998	0.068	rma	762 1814	SW 8310
Pyrene	0.70	mg/kg dw	10/22/1998	0.034	rma	762 1814	SW 8310
Surr: p-Terphenyl	96.0	µ	10/22/1998	43-125	rma	762 1814	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wna	372	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.068	mg/kg dw	10/27/1998	0.068	tls	372 46	SW 8082
PCB-1221	<0.068	mg/kg dw	10/27/1998	0.068	tls	372 46	SW 8082
PCB-1232	<0.068	mg/kg dw	10/27/1998	0.068	tls	372 46	SW 8082
PCB-1242	<0.068	mg/kg dw	10/27/1998	0.068	tls	372 46	SW 8082
PCB-1248	<0.068	mg/kg dw	10/27/1998	0.068	tls	372 46	SW 8082
PCB-1254	<0.068	mg/kg dw	10/27/1998	0.068	tls	372 46	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR.  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497436

NET Job No.: 98.13169

Sample Description: S-17  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 14:45  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.068	mg/kg dw	10/27/1998	0.068	tlw	372 46	SW 8082
Decachlorobiphenyl (Surr)	104.0	µ	10/27/1998	NA	tlw	372 46	SW 8082
2,4,5,6-TCMX (Surr)	84.0	µ	10/27/1998	NA	tlw	372 46	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497437  
NET Job No. : 98.13169

Sample Description: S-18  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 15:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.15	units	10/15/1998	0.10	nwg	173	SW 9045B
Solids, Total	46.6	%	11/02/1998	0.1	nwg	2517	SW 2540
Arsenic, GFAA	2.8	mg/kg dw	10/31/1998	1.1	mhp	225 667	SW 7060
Barium, ICP	665	mg/kg dw	10/28/1998	2.1	jtt	1152 2160	SW 6010B
Cadmium, ICP	2.4	mg/kg dw	10/24/1998	1.1	kdw	1152 2139	SW 6010B
Chromium, ICP	24	mg/kg dw	10/24/1998	4.3	kdw	1152 2125	SW 6010B
Lead, ICP	279	mg/kg dw	10/24/1998	8.6	kdw	1152 2361	SW 6010B
Mercury, CVAA	0.11	mg/kg dw	10/27/1998	0.086	sep	662 767	SW 7471A
Selenium, GFAA	<0.54	mg/kg dw	11/02/1998	0.54	mhp	225 554	SW 7740
Silver, AA	<4.3	mg/kg dw	10/26/1998	4.3	sep	483 566	SW 7760
<hr/>							
Prep, TPH 8015M - NONAQUEOUS	extracted		10/19/1998		mmv	239	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	232	PT mg/kg dw	10/29/1998	110	out	239 485	SW 8015M
TPH as Diesel	<110	mg/kg dw	10/29/1998	110	out	239 485	SW 8015M
TPH as Oil	4.060	PT mg/kg dw	10/29/1998	110	out	239 485	SW 8015M
N-octacosane (TPH surr)	116.0	%	10/29/1998		out	239 485	SW 8015M
<hr/>							
UST VOLATILES NON-AQUEOUS							
Benzene	<0.01	mg/kg dw	10/20/1998	0.01	jap	44	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	10/20/1998	0.01	jap	44	SW 8260A
Toluene	<0.01	mg/kg dw	10/20/1998	0.01	jap	44	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	10/20/1998	0.01	jap	44	SW 8260A
Dibromofluoromethane (Surr)	106.0	%	10/20/1998	81-129	jap	44	SW 8260A
Toluene-d8 (Surr)	98.0	%	10/20/1998	74-129	jap	44	SW 8260A
4-Bromofluoromethane (Surr)	104.0	%	10/20/1998	70-130	jap	44	SW 8260A
<hr/>							
Prep, 8310 PNAs NON-AQUEOUS	COMPLETE		10/19/1998		rmn	762	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the gas/oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497437  
NET Job No.: 98.13169

Sample Description: S-18  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 15:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.043	mg/kg dw	10/21/1998	0.043	rmm	762 1815	SW 8310
Acenaphthylene	<0.043	mg/kg dw	10/21/1998	0.043	rmm	762 1815	SW 8310
Anthracene	<0.086	mg/kg dw	10/21/1998	0.086	rmm	762 1815	SW 8310
Benzo (a) anthracene	<0.021	mg/kg dw	10/21/1998	0.021	rmm	762 1815	SW 8310
Benzo (b) fluoranthene	0.62	mg/kg dw	10/21/1998	0.021	rmm	762 1815	SW 8310
Benzo (k) fluoranthene	<0.021	mg/kg dw	10/21/1998	0.021	rmm	762 1815	SW 8310
Benzo (a) pyrene	0.75	mg/kg dw	10/21/1998	0.021	rmm	762 1815	SW 8310
Benzo (ghi) perylene	<0.086	mg/kg dw	10/21/1998	0.086	rmm	762 1815	SW 8310
Chrysene	0.97	mg/kg dw	10/21/1998	0.064	rmm	762 1815	SW 8310
Dibenzo (a, h) anthracene	<0.021	mg/kg dw	10/21/1998	0.021	rmm	762 1815	SW 8310
Fluoranthene	0.86	mg/kg dw	10/21/1998	0.043	rmm	762 1815	SW 8310
Fluorene	<0.043	mg/kg dw	10/21/1998	0.043	rmm	762 1815	SW 8310
Indeno (1, 2, 3-cd) pyrene	<0.021	mg/kg dw	10/21/1998	0.021	rmm	762 1815	SW 8310
Naphthalene	<0.054	mg/kg dw	10/21/1998	0.054	rmm	762 1815	SW 8310
Phenanthrene	0.69	mg/kg dw	10/21/1998	0.086	rmm	762 1815	SW 8310
Pyrene	1.4	mg/kg dw	10/21/1998	0.043	rmm	762 1815	SW 8310
Surz: p-Terphenyl	52.0	†	10/21/1998	43-125	rmm	762 1815	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wla	372	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.086	mg/kg dw	10/27/1998	0.086	cls	372 46	SW 8082
PCB-1221	<0.086	mg/kg dw	10/27/1998	0.086	cls	372 46	SW 8082
PCB-1232	<0.086	mg/kg dw	10/27/1998	0.086	cls	372 46	SW 8082
PCB-1242	<0.086	mg/kg dw	10/27/1998	0.086	cls	372 46	SW 8082
PCB-1248	<0.086	mg/kg dw	10/27/1998	0.086	cls	372 46	SW 8082
PCB-1254	<0.086	mg/kg dw	10/27/1998	0.086	cls	372 46	SW 8082



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497437

NET Job No.: 98.13169

Sample Description: S-18  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 15:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	1.2	mg/kg dw	10/29/1998	0.086	cls	372 47	SW 8082
Decachlorobiphenyl (Surr)	90.0	†	10/27/1998	NA	cls	372 46	SW 8082
2,4,5,6-TCMX (Surr)	71.0	†	10/27/1998	NA	cls	372 46	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497438  
NET Job No.: 98.13169

Sample Description: S-19  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 15:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.69	units	10/15/1998	0.10	nvg	173	SW 9045B
Solids, Total	55.0	‡	11/02/1998	0.1	nvg	2517	SM 2540
Arsenic, GFAA	6.9	mg/kg dw	10/31/1998	0.91	mhp	225 667	SW 7060
Barium, ICP	818	mg/kg dw	10/28/1998	1.8	jtc	1152 2160	SW 6010B
Cadmium, ICP	2.7	mg/kg dw	10/24/1998	0.91	kdw	1152 2139	SW 6010B
Chromium, ICP	20	mg/kg dw	10/24/1998	3.6	kdw	1152 2125	SW 6010B
Lead, ICP	44	mg/kg dw	10/24/1998	7.3	kdw	1152 2361	SW 6010B
Mercury, CVAA	0.093	mg/kg dw	10/27/1998	0.073	sep	662 767	SW 7471A
Selenium, GFAA	<0.45	mg/kg dw	11/02/1998	0.45	mhp	225 554	SW 7740
Silver, AA	<3.6	mg/kg dw	10/26/1998	3.6	sep	483 566	SW 7760
Prep. TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/21/1998		mmv	240	SW 8015M
TPH as Gas	<91	mg/kg dw	10/29/1998	91	out	240 485	SW 8015M
TPH as Diesel	4,930	mg/kg dw	10/29/1998	91	out	240 485	SW 8015M
TPH as Oil	<91	mg/kg dw	10/29/1998	91	out	240 485	SW 8015M
N-octacosane (TPH surr)	112.0	‡	10/29/1998		out	240 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.009	mg/kg dw	10/21/1998	0.009	jap	44	SW 8260A
Ethylbenzene	<0.009	mg/kg dw	10/21/1998	0.009	jap	44	SW 8260A
Toluene	<0.009	mg/kg dw	10/21/1998	0.009	jap	44	SW 8260A
Xylenes, Total	<0.009	mg/kg dw	10/21/1998	0.009	jap	44	SW 8260A
Dibromofluoromethane (Surr)	110.0	‡	10/21/1998	81-129	jap	44	SW 8260A
Toluene-d8 (Surr)	101.6	‡	10/21/1998	74-129	jap	44	SW 8260A
4-Bromofluoromethane (Surr)	99.4	‡	10/21/1998	70-130	jap	44	SW 8260A
Prep. 8310 PNA's NON-AQUEOUS	COMPLETE		10/19/1998		rma	762	SW 3540C



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497438  
NET Job No.: 98.13169

Sample Description: S-19  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 15:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.036	mg/kg dw	10/22/1998	0.036	rum	762 1814	SW 8310
Acenaphthylene	<0.036	mg/kg dw	10/22/1998	0.036	rum	762 1814	SW 8310
Anthracene	<0.073	mg/kg dw	10/22/1998	0.073	rum	762 1814	SW 8310
Benzo (a) anthracene	<0.018	mg/kg dw	10/22/1998	0.018	rum	762 1814	SW 8310
Benzo (b) fluoranthene	<0.018	mg/kg dw	10/22/1998	0.018	rum	762 1814	SW 8310
Benzo (k) fluoranthene	<0.018	mg/kg dw	10/22/1998	0.018	rum	762 1814	SW 8310
Benzo (a) pyrene	<0.018	mg/kg dw	10/22/1998	0.018	rum	762 1814	SW 8310
Benzo (ghi) perylene	<0.073	mg/kg dw	10/22/1998	0.073	rum	762 1814	SW 8310
Chrysene	<0.055	mg/kg dw	10/22/1998	0.055	rum	762 1814	SW 8310
Dibenzo (a, h) anthracene	<0.018	mg/kg dw	10/22/1998	0.018	rum	762 1814	SW 8310
Fluoranthene	0.64	mg/kg dw	10/22/1998	0.036	rum	762 1814	SW 8310
Fluorene	<0.036	mg/kg dw	10/22/1998	0.036	rum	762 1814	SW 8310
Indeno (1,2,3-cd) pyrene	<0.018	mg/kg dw	10/22/1998	0.018	rum	762 1814	SW 8310
Naphthalene	<0.045	mg/kg dw	10/22/1998	0.045	rum	762 1814	SW 8310
Phenanthrene	0.65	mg/kg dw	10/22/1998	0.073	rum	762 1814	SW 8310
Pyrene	1.8	mg/kg dw	10/22/1998	0.036	rum	762 1814	SW 8310
Surr: p-Terphenyl	44.0	t	10/22/1998	43-125	rum	762 1814	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wna	372	SW 3540C
<b>PCB'S NON-AQUEOUS ELV</b>							
PCB-1016	<1.5	mg/kg dw	10/30/1998	0.073	cls	372 47	SW 8082
PCB-1221	<1.5	mg/kg dw	10/30/1998	0.073	cls	372 47	SW 8082
PCB-1232	<1.5	mg/kg dw	10/30/1998	0.073	cls	372 47	SW 8082
PCB-1242	<1.5	mg/kg dw	10/30/1998	0.073	cls	372 47	SW 8082
PCB-1248	<1.5	mg/kg dw	10/30/1998	0.073	cls	372 47	SW 8082
PCB-1254	<1.5	mg/kg dw	10/30/1998	0.073	cls	372 47	SW 8082

ELV : Elevated reporting limits due to matrix interference.







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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497438  
NET Job No.: 98.13169

Sample Description: S-19  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 15:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<1.5	mg/kg dw	10/30/1998	0.073	cls	372 47	SW 8082
Decachlorobiphenyl (Surr)	155.0	†	10/30/1998	NA	cls	372 47	SW 8082
2,4,5,6-TCMX (Surr)	76.0	†	10/30/1998	NA	cls	372 47	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497439  
NET Job No.: 98.13169

Sample Description: S-20  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 15:45  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.87	units	10/15/1998	0.10	nwg	173	SW 9045B
Solids, Total	94.3	†	11/02/1998	0.1	nwg	2518	SM 2540
Arsenic, GFAA	5.0	mg/kg dw	10/31/1998	0.53	mhp	225 667	SW 7060
Barium, ICP	62	mg/kg dw	10/28/1998	1.1	jtt	1152 2160	SW 6010B
Cadmium, ICP	1.7	mg/kg dw	10/24/1998	0.53	kdw	1152 2139	SW 6010B
Chromium, ICP	6.4	mg/kg dw	10/24/1998	2.1	kdw	1152 2125	SW 6010B
Lead, ICP	8.6	mg/kg dw	10/24/1998	4.2	kdw	1152 2361	SW 6010B
Mercury, CVAA	<0.042	mg/kg dw	10/27/1998	0.042	sep	662 767	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	11/02/1998	0.27	mhp	225 554	SW 7740
Silver, AA	<2.1	mg/kg dw	10/26/1998	2.1	sep	483 566	SW 7760
Prep. TPH 8015M - NONAQUEOUS	extracted		10/21/1998		mmv	240	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<53	mg/kg dw	10/29/1998	53	out	240 485	SW 8015M
TPH as Diesel	<53	mg/kg dw	10/29/1998	53	out	240 485	SW 8015M
TPH as Oil	1,020	mg/kg dw	10/29/1998	53	out	240 485	SW 8015M
N-octacosane (TPH surr)	118.0	†	10/29/1998		out	240 485	SW 8015M
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/20/1998	0.005	jap	44	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/20/1998	0.005	jap	44	SW 8260A
Toluene	<0.005	mg/kg dw	10/20/1998	0.005	jap	44	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/20/1998	0.005	jap	44	SW 8260A
Dibromofluoromethane (Surr)	116.0	†	10/20/1998	81-129	jap	44	SW 8260A
Toluene-d8 (Surr)	106.0	†	10/20/1998	74-129	jap	44	SW 8260A
4-Bromofluoromethane (Surr)	106.0	†	10/20/1998	70-130	jap	44	SW 8260A
Prep. 8310 PNA's NON-AQUEOUS	COMPLETE		10/20/1998		zmm	763	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497439  
NET Job No.: 98.13169

Sample Description: S-20  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 15:45  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical
				PQL		Prep/Run	Method
<b>PNA CMFDS - 8310 MONAQUEOUS</b>							
Acenaphthene	<0.021	mg/kg dw	10/23/1998	0.021	rmm	763 1816	SW 8310
Acenaphthylene	<0.021	mg/kg dw	10/23/1998	0.021	rmm	763 1816	SW 8310
Anthracene	<0.042	mg/kg dw	10/23/1998	0.042	rmm	763 1816	SW 8310
Benzo (a) anthracene	<0.011	mg/kg dw	10/23/1998	0.011	rmm	763 1816	SW 8310
Benzo (b) fluoranthene	<0.011	mg/kg dw	10/23/1998	0.011	rmm	763 1816	SW 8310
Benzo (k) fluoranthene	<0.011	mg/kg dw	10/23/1998	0.011	rmm	763 1816	SW 8310
Benzo (a) pyrene	<0.011	mg/kg dw	10/23/1998	0.011	rmm	763 1816	SW 8310
Benzo (ghi) perylene	<0.042	mg/kg dw	10/23/1998	0.042	rmm	763 1816	SW 8310
Chrysene	<0.032	mg/kg dw	10/23/1998	0.032	rmm	763 1816	SW 8310
Dibenzo (a, h) anthracene	<0.011	mg/kg dw	10/23/1998	0.011	rmm	763 1816	SW 8310
Fluoranthene	<0.021	mg/kg dw	10/23/1998	0.021	rmm	763 1816	SW 8310
Fluorene	<0.021	mg/kg dw	10/23/1998	0.021	rmm	763 1816	SW 8310
Indeno (1, 2, 3-cd) pyrene	<0.011	mg/kg dw	10/23/1998	0.011	rmm	763 1816	SW 8310
Naphthalene	<0.027	mg/kg dw	10/23/1998	0.027	rmm	763 1816	SW 8310
Phenanthrene	<0.042	mg/kg dw	10/23/1998	0.042	rmm	763 1816	SW 8310
Pyrene	<0.021	mg/kg dw	10/23/1998	0.021	rmm	763 1816	SW 8310
Surr: p-Terphenyl	71.0	t	10/23/1998	43-125	rmm	763 1816	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wna	372	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.042	mg/kg dw	10/27/1998	0.042	tls	372 46	SW 8082
PCB-1221	<0.042	mg/kg dw	10/27/1998	0.042	tls	372 46	SW 8082
PCB-1232	<0.042	mg/kg dw	10/27/1998	0.042	tls	372 46	SW 8082
PCB-1242	<0.042	mg/kg dw	10/27/1998	0.042	tls	372 46	SW 8082
PCB-1248	<0.042	mg/kg dw	10/27/1998	0.042	tls	372 46	SW 8082
PCB-1254	<0.042	mg/kg dw	10/27/1998	0.042	tls	372 46	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497439  
NET Job No.: 98.13169

Sample Description: S-20  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 15:45  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.042	mg/kg dw	10/27/1998	0.042	tlc	372 46	SW 8082
Decachlorobiphenyl (Surr)	99.0	†	10/27/1998	NA	tlc	372 46	SW 8082
2,4,5,6-TCDF (Surr)	90.0	†	10/27/1998	NA	tlc	372 46	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497440  
NET Job No.: 98.13169

Sample Description: S-21  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 16:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH; Non-Aqueous	6.68	units	10/15/1998	0.10	nwg	173	SW 9045B
Solids, Total	93.0	%	11/02/1998	0.1	nwg	2518	SM 2540
Arsenic, GFAA	5.1	mg/kg dw	10/31/1998	0.54	mhp	225 667	SW 7060
Barium, ICP	204	mg/kg dw	10/28/1998	1.1	jtt	1152 2160	SW 6010B
Cadmium, ICP	0.72	mg/kg dw	10/24/1998	0.54	kdw	1152 2139	SW 6010B
Chromium, ICP	24	mg/kg dw	10/24/1998	2.2	kdw	1152 2125	SW 6010B
Lead, ICP	40	mg/kg dw	10/24/1998	4.3	kdw	1152 2361	SW 6010B
Mercury, CVAA	<0.043	mg/kg dw	10/27/1998	0.043	sep	662 767	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	11/02/1998	0.27	mhp	225 554	SW 7740
Silver, AA	<2.2	mg/kg dw	10/26/1998	2.2	sep	483 566	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/21/1998		mmv	240	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<538	mg/kg dw	10/29/1998	54	out	240 485	SW 8015M
TPH as Diesel	<538	mg/kg dw	10/29/1998	54	out	240 485	SW 8015M
TPH as Oil	27,200	mg/kg dw	10/29/1998	54	out	240 485	SW 8015M
N-octacosane (TPH surr)	Diluted out		10/29/1998		out	240 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/21/1998	0.005	jap	44	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/21/1998	0.005	jap	44	SW 8260A
Toluene	<0.005	mg/kg dw	10/21/1998	0.005	jap	44	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/21/1998	0.005	jap	44	SW 8260A
Dibromofluoromethane (Surr)	118.2	%	10/21/1998	81-129	jap	44	SW 8260A
Toluene-d8 (Surr)	101.6	%	10/21/1998	74-129	jap	44	SW 8260A
4-Bromofluoromethane (Surr)	107.4	%	10/21/1998	70-130	jap	44	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	COMPLETE		10/20/1998		rmm	763	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497440  
NET Job No.: 98.13169

Sample Description: S-21  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 16:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.089	mg/kg dw	10/25/1998	0.022	rmm	763 1817	SW 8310
Acenaphthylene	<0.089	mg/kg dw	10/25/1998	0.022	rmm	763 1817	SW 8310
Anthracene	<0.18	mg/kg dw	10/25/1998	0.043	rmm	763 1817	SW 8310
Benzo(a)anthracene	<0.045	mg/kg dw	10/25/1998	0.011	rmm	763 1817	SW 8310
Benzo(b)fluoranthene	<0.045	mg/kg dw	10/25/1998	0.011	rmm	763 1817	SW 8310
Benzo(k)fluoranthene	<0.045	mg/kg dw	10/25/1998	0.011	rmm	763 1817	SW 8310
Benzo(a)pyrene	<0.045	mg/kg dw	10/25/1998	0.011	rmm	763 1817	SW 8310
Benzo(ghi)perylene	<0.18	mg/kg dw	10/25/1998	0.043	rmm	763 1817	SW 8310
Chrysene	<0.13	mg/kg dw	10/25/1998	0.032	rmm	763 1817	SW 8310
Dibenzo(a,h)anthracene	<0.045	mg/kg dw	10/25/1998	0.011	rmm	763 1817	SW 8310
Fluoranthene	<0.089	mg/kg dw	10/25/1998	0.022	rmm	763 1817	SW 8310
Fluorene	<0.089	mg/kg dw	10/25/1998	0.022	rmm	763 1817	SW 8310
Indeno(1,2,3-cd)pyrene	<0.045	mg/kg dw	10/25/1998	0.011	rmm	763 1817	SW 8310
Naphthalene	<0.11	mg/kg dw	10/25/1998	0.027	rmm	763 1817	SW 8310
Phenanthrene	<0.18	mg/kg dw	10/25/1998	0.043	rmm	763 1817	SW 8310
Pyrene	<0.089	mg/kg dw	10/25/1998	0.022	rmm	763 1817	SW 8310
Surr: p-Terphenyl	Diluted out		10/25/1998	43-125	rmm	763 1817	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wna	372	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.043	mg/kg dw	10/27/1998	0.043	cls	372 46	SW 8082
PCB-1221	<0.043	mg/kg dw	10/27/1998	0.043	cls	372 46	SW 8082
PCB-1232	<0.043	mg/kg dw	10/27/1998	0.043	cls	372 46	SW 8082
PCB-1242	<0.043	mg/kg dw	10/27/1998	0.043	cls	372 46	SW 8082
PCB-1248	<0.043	mg/kg dw	10/27/1998	0.043	cls	372 46	SW 8082
PCB-1254	<0.043	mg/kg dw	10/27/1998	0.043	cls	372 46	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497440

NET Job No.: 98.13169

Sample Description: S-21  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 16:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.043	mg/kg dw	10/27/1998	0.043	cls	372 46	SW 8082
Decachlorobiphenyl (Surr)	102.0	µ	10/27/1998	NA	cls	372 46	SW 8082
2,4,5,6-TCMX (Surr)	96.0	µ	10/27/1998	NA	cls	372 46	SW 8082





**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497441  
NET Job No.: 98.13169

Sample Description: S-22  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 12:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method	
pH, Non-Aqueous	7.53	units	10/16/1998	0.10	nwg	174	SW 9045B	
Solids, Total	69.1	†	11/03/1998	0.1	efw	2521	SM 2540	
Arsenic, GFAA	8.1	mg/kg dw	10/31/1998	0.72	nhp	227 666	SW 7060	
Barium, ICP	803	mg/kg dw	10/30/1998	1.4	jct	1153 2169	SW 6010B	
Cadmium, ICP	12	mg/kg dw	10/30/1998	0.72	jct	1153 2155	SW 6010B	
Chromium, ICP	188	mg/kg dw	10/30/1998	2.9	jct	1153 2140	SW 6010B	
Lead, ICP	291	mg/kg dw	11/02/1998	5.8	jct	1153 2382	SW 6010B	
Mercury, CVAA	0.14	mg/kg dw	10/27/1998	0.058	sep	662 767	SW 7471A	
Selenium, GFAA	0.87	mg/kg dw	10/31/1998	0.36	nhp	227 551	SW 7740	
Silver, AA	3.6	mg/kg dw	10/27/1998	2.9	sep	485 567	SW 7760	
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/21/1998		umv	240	SW 8015M	
TPH as Gas	1,490	PT	mg/kg dw	10/29/1998	72	out	240 485	SW 8015M
TPH as Diesel	<289		mg/kg dw	10/29/1998	72	out	240 485	SW 8015M
TPH as Oil	28,100	PT	mg/kg dw	10/29/1998	72	out	240 485	SW 8015M
N-octacosane (TPH surr)	Diluted out		10/29/1998		out	240 485	SW 8015M	
UST VOLATILES NON-AQUEOUS								
Benzene	<0.007	mg/kg dw	10/20/1998	0.007	jap	44	SW 8260A	
Ethylbenzene	<0.007	mg/kg dw	10/20/1998	0.007	jap	44	SW 8260A	
Toluene	0.019	mg/kg dw	10/20/1998	0.007	jap	44	SW 8260A	
Xylenes, Total	0.016	mg/kg dw	10/20/1998	0.007	jap	44	SW 8260A	
Dibromofluoromethane (Surr)	130.0	R	†	10/20/1998	81-129	jap	44	SW 8260A
Toluene-d8 (Surr)	84.0	†	10/20/1998	74-129	jap	44	SW 8260A	
4-Bromofluoromethane (Surr)	86.0	†	10/20/1998	70-130	jap	44	SW 8260A	
Prep, 8310 PNA's NON-AQUEOUS	COMPLETE		10/20/1998		xmm	763	SW 3540C	

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the gas/oil range.  
R : Surrogate recovery verified by re-analysis



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
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Westmont, IL 60559

11/04/1998  
Sample No. : 497441  
NET Job No. : 98.13169

Sample Description: S-22  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 12:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.12	mg/kg dw	10/22/1998	0.029	xmm	763 1814	SW 8310
Acenaphthylene	<0.12	mg/kg dw	10/22/1998	0.029	xmm	763 1814	SW 8310
Anthracene	0.81	mg/kg dw	10/22/1998	0.058	xmm	763 1814	SW 8310
Benzo (a) anthracene	<0.061	mg/kg dw	10/22/1998	0.014	xmm	763 1814	SW 8310
Benzo (b) fluoranthene	<0.061	mg/kg dw	10/22/1998	0.014	xmm	763 1814	SW 8310
Benzo (k) fluoranthene	<0.061	mg/kg dw	10/22/1998	0.014	xmm	763 1814	SW 8310
Benzo (a) pyrene	<0.061	mg/kg dw	10/22/1998	0.014	xmm	763 1814	SW 8310
Benzo (ghi) perylene	<0.25	mg/kg dw	10/22/1998	0.058	xmm	763 1814	SW 8310
Chrysene	0.59	mg/kg dw	10/22/1998	0.043	xmm	763 1814	SW 8310
Dibenzo (a,h) anthracene	<0.061	mg/kg dw	10/22/1998	0.014	xmm	763 1814	SW 8310
Fluoranthene	1.3	mg/kg dw	10/22/1998	0.029	xmm	763 1814	SW 8310
Fluorene	0.94	mg/kg dw	10/22/1998	0.029	xmm	763 1814	SW 8310
Indeno (1,2,3-cd) pyrene	<0.061	mg/kg dw	10/22/1998	0.014	xmm	763 1814	SW 8310
Naphthalene	<0.14	mg/kg dw	10/22/1998	0.036	xmm	763 1814	SW 8310
Phenanthrene	1.1	mg/kg dw	10/22/1998	0.058	xmm	763 1814	SW 8310
Pyrene	<0.12	mg/kg dw	10/22/1998	0.029	xmm	763 1814	SW 8310
Surr: p-Terphenyl	Diluted out		10/22/1998	43-125	xmm	763 1814	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/22/1998	COMPLETE	wna	372	SW 3540C
PCB'S NON-AQUEOUS		ELV					
PCB-1016	<0.20	mg/kg dw	10/28/1998	0.058	cls	372 46	SW 8082
PCB-1221	<0.20	mg/kg dw	10/28/1998	0.058	cls	372 46	SW 8082
PCB-1232	<0.20	mg/kg dw	10/28/1998	0.058	cls	372 46	SW 8082
PCB-1242	0.71	mg/kg dw	10/30/1998	0.058	cls	372 47	SW 8082
PCB-1248	<0.20	mg/kg dw	10/28/1998	0.058	cls	372 46	SW 8082
PCB-1254	1.0	mg/kg dw	10/30/1998	0.058	cls	372 47	SW 8082

ELV : Elevated reporting limits due to sample matrix



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497441  
NET Job No.: 98.13169

Sample Description: S-22  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 12:15  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.41	mg/kg dw	10/30/1998	0.058	tlc	372 47	SW 8082
Decachlorobiphenyl (Surr)	89.0	µ	10/28/1998	NA	tlc	372 46	SW 8082
2,4,5,6-TCDF (Surr)	84.0	µ	10/28/1998	NA	tlc	372 46	SW 8082



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**ANALYTICAL REPORT**

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ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497442

NET Job No.: 98.13169

Sample Description: S-23  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 12:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	6.54	units	10/16/1998	0.10	nwg	174	SW 9045B
Solids, Total	95.7	†	11/02/1998	0.1	nwg	2518	SM 2540
Arsenic, GFAA	1.9	mg/kg dw	10/31/1998	0.52	mhp	227 666	SW 7060
Barium, ICP	460	mg/kg dw	10/30/1998	1.0	jtc	1153 2169	SW 6010B
Cadmium, ICP	0.78	mg/kg dw	10/30/1998	0.52	jtc	1153 2155	SW 6010B
Chromium, ICP	41	mg/kg dw	10/30/1998	2.1	jtc	1153 2140	SW 6010B
Lead, ICP	25	mg/kg dw	11/02/1998	4.2	jtc	1153 2382	SW 6010B
Mercury, CVAA	0.043	mg/kg dw	10/27/1998	0.042	sep	662 767	SW 7471A
Selenium, GFAA	<0.26	mg/kg dw	11/01/1998	0.26	mhp	227 552	SW 7740
Silver, AA	<2.1	mg/kg dw	10/27/1998	2.1	sep	484 567	SW 7760
<hr/>							
Prep. TPH-8015M--NONAQUEOUS	extracted		10/21/1998		msv	240	SW 8015M
<hr/>							
TPH MODIFIED 8015							
TPH as Gas	2,360	PT	10/29/1998	52	out	240 485	SW 8015M
TPH as Diesel	<522		10/29/1998	52	out	240 485	SW 8015M
TPH as Oil	30,100	PT	10/29/1998	52	out	240 485	SW 8015M
N-octacosane (TPH surr)	Diluted out		10/29/1998		out	240 485	SW 8015M
<hr/>							
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/21/1998	0.005	jap	45	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/21/1998	0.005	jap	45	SW 8260A
Toluene	<0.005	mg/kg dw	10/21/1998	0.005	jap	45	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/21/1998	0.005	jap	45	SW 8260A
Dibromofluoromethane (Surr)	114.0	†	10/21/1998	81-129	jap	45	SW 8260A
Toluene-d8 (Surr)	98.0	†	10/21/1998	74-129	jap	45	SW 8260A
4-Bromofluoromethane (Surr)	100.0	†	10/21/1998	70-130	jap	45	SW 8260A
<hr/>							
Prep. 8310 PNA's NON-AQUEOUS	COMPLETE		10/20/1998		xmm	763	SW 3540C

PT : Pattern does not match the calibration standard; however, hydrocarbons are present in the gas/oil range.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497442

NET Job No.: 98.13169

Sample Description: S-23  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
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Date Received: 10/09/1998  
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WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Ruin	Analytical Method
PNA CMPS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.087	mg/kg dw	10/23/1998	0.021	rum	763 1816	SW 8310
Acenaphthylene	<0.087	mg/kg dw	10/23/1998	0.021	rum	763 1816	SW 8310
Anthracene	<0.18	mg/kg dw	10/23/1998	0.042	rum	763 1816	SW 8310
Benzo (a) anthracene	<0.044	mg/kg dw	10/23/1998	0.010	rum	763 1816	SW 8310
Benzo (b) fluoranthene	<0.044	mg/kg dw	10/23/1998	0.010	rum	763 1816	SW 8310
Benzo (k) fluoranthene	<0.044	mg/kg dw	10/23/1998	0.010	rum	763 1816	SW 8310
Benzo (a) pyrene	<0.044	mg/kg dw	10/23/1998	0.010	rum	763 1816	SW 8310
Benzo (ghi) perylene	<0.18	mg/kg dw	10/23/1998	0.042	rum	763 1816	SW 8310
Chrysene	<0.13	mg/kg dw	10/23/1998	0.031	rum	763 1816	SW 8310
Dibenzo (a,h) anthracene	<0.044	mg/kg dw	10/23/1998	0.010	rum	763 1816	SW 8310
Fluoranthene	<0.087	mg/kg dw	10/23/1998	0.021	rum	763 1816	SW 8310
Fluorene	<0.087	mg/kg dw	10/23/1998	0.021	rum	763 1816	SW 8310
Indeno (1,2,3-cd) pyrene	<0.044	mg/kg dw	10/23/1998	0.010	rum	763 1816	SW 8310
Naphthalene	<0.10	mg/kg dw	10/23/1998	0.026	rum	763 1816	SW 8310
Phenanthrene	<0.18	mg/kg dw	10/23/1998	0.042	rum	763 1816	SW 8310
Pyrene	<0.087	mg/kg dw	10/23/1998	0.021	rum	763 1816	SW 8310
Surr: p-Terphenyl	Diluted out		10/23/1998	43-125	rum	763 1816	SW 8310
PCB Non-Aqueous Extraction		COMPLETE	10/22/1998	COMPLETE	wra	372	SW 3540C
PCB'S NON-AQUEOUS		ELV					
PCB-1016	<0.10	mg/kg dw	10/26/1998	0.042	cls	372 46	SW 8082
PCB-1221	<0.10	mg/kg dw	10/26/1998	0.042	cls	372 46	SW 8082
PCB-1232	<0.10	mg/kg dw	10/26/1998	0.042	cls	372 46	SW 8082
PCB-1242	<0.10	mg/kg dw	10/26/1998	0.042	cls	372 46	SW 8082
PCB-1248	<0.10	mg/kg dw	10/26/1998	0.042	cls	372 46	SW 8082
PCB-1254	<0.10	mg/kg dw	10/26/1998	0.042	cls	372 46	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497442

NET Job No.: 98.13169

Sample Description: S-23  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 12:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.10	mg/kg dw	10/26/1998	0.042	tls	372 46	SW 8082
Decachlorobiphenyl (Surr)	92.0	†	10/26/1998	NA	tls	372 46	SW 8082
2,4,5,6-TCMX (Surr)	83.0	†	10/26/1998	NA	tls	372 46	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497443  
NET Job No.: 98.13169

Sample Description: S-24  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 16:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.59	units	10/16/1998	0.10	nwg	174	SW 9045B
Solids, Total	61.9	†	11/02/1998	0.1	nwg	2518	SM 2540
Arsenic, GFAA	9.9	mg/kg dw	10/31/1998	0.81	mhp	225 667	SW 7060
Barium, ICP	549	mg/kg dw	10/30/1998	1.6	jtt	1153 2169	SW 6010B
Cadmium, ICP	3.4	mg/kg dw	10/30/1998	0.81	jtt	1153 2155	SW 6010B
Chromium, ICP	61	mg/kg dw	10/30/1998	3.2	jtt	1153 2140	SW 6010B
Lead, ICP	291	mg/kg dw	11/02/1998	6.5	jtt	1153 2382	SW 6010B
Mercury, CVAA	0.21	mg/kg dw	10/27/1998	0.065	sep	662 767	SW 7471A
Selenium, GFAA	0.42	mg/kg dw	11/02/1998	0.40	mhp	225 554	SW 7740
Silver, AA	<3.2	mg/kg dw	10/27/1998	3.2	sep	484 567	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/21/1998		mav	240	SW 8015M
TPH as Gas	<81	mg/kg dw	10/29/1998	81	out	240 485	SW 8015M
TPH as Diesel	<81	mg/kg dw	10/29/1998	81	out	240 485	SW 8015M
TPH as Oil	1,050	mg/kg dw	10/29/1998	81	out	240 485	SW 8015M
N-octacosane (TPH surr)	89.0	†	10/29/1998		out	240 485	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.008	mg/kg dw	10/21/1998	0.008	jap	45	SW 8260A
Ethylbenzene	<0.008	mg/kg dw	10/21/1998	0.008	jap	45	SW 8260A
Toluene	<0.008	mg/kg dw	10/21/1998	0.008	jap	45	SW 8260A
Xylenes, Total	<0.008	mg/kg dw	10/21/1998	0.008	jap	45	SW 8260A
Dibromofluoromethane (Surr)	98.0	†	10/21/1998	81-129	jap	45	SW 8260A
Toluene-d8 (Surr)	96.0	†	10/21/1998	74-129	jap	45	SW 8260A
4-Bromofluoromethane (Surr)	74.0	†	10/21/1998	70-130	jap	45	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	COMPLETE		10/20/1998		rmm	763	SW 3540C



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**ANALYTICAL REPORT**

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11/04/1998

Sample No. : 497443

NET Job No. : 98.13169

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WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.032	mg/kg dw	10/23/1998	0.032	rma	763 1816	SW 8310
Acenaphthylene	<0.032	mg/kg dw	10/23/1998	0.032	rma	763 1816	SW 8310
Anthracene	<0.065	mg/kg dw	10/23/1998	0.065	rma	763 1816	SW 8310
Benzo(a)anthracene	<0.016	mg/kg dw	10/23/1998	0.016	rma	763 1816	SW 8310
Benzo(b)fluoranthene	<0.016	mg/kg dw	10/23/1998	0.016	rma	763 1816	SW 8310
Benzo(k)fluoranthene	<0.016	mg/kg dw	10/23/1998	0.016	rma	763 1816	SW 8310
Benzo(a)pyrene	<0.016	mg/kg dw	10/23/1998	0.016	rma	763 1816	SW 8310
Benzo(ghi)perylene	<0.065	mg/kg dw	10/23/1998	0.065	rma	763 1816	SW 8310
Chrysene	0.26	mg/kg dw	10/23/1998	0.048	rma	763 1816	SW 8310
Dibenzo(a,h)anthracene	<0.016	mg/kg dw	10/23/1998	0.016	rma	763 1816	SW 8310
Fluoranthene	0.19	mg/kg dw	10/23/1998	0.032	rma	763 1816	SW 8310
Fluorene	0.073	mg/kg dw	10/23/1998	0.012	rma	763 1816	SW 8310
Indeno(1,2,3-cd)pyrene	<0.016	mg/kg dw	10/23/1998	0.016	rma	763 1816	SW 8310
Naphthalene	<0.040	mg/kg dw	10/23/1998	0.040	rma	763 1816	SW 8310
Phenanthrene	0.16	mg/kg dw	10/23/1998	0.065	rma	763 1816	SW 8310
Pyrene	0.84	mg/kg dw	10/23/1998	0.032	rma	763 1816	SW 8310
Surr: p-Terphenyl	44.0	µ	10/23/1998	43-125	rma	763 1816	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wma	372	SW 3540C
PCB'S NON-AQUEOUS	ELV						
PCB-1016	<3.9	mg/kg dw	10/30/1998	0.065	cls	372 47	SW 8082
PCB-1221	<3.9	mg/kg dw	10/30/1998	0.065	cls	372 47	SW 8082
PCB-1232	<3.9	mg/kg dw	10/30/1998	0.065	cls	372 47	SW 8082
PCB-1242	<3.9	mg/kg dw	10/30/1998	0.065	cls	372 47	SW 8082
PCB-1248	<3.9	mg/kg dw	10/30/1998	0.065	cls	372 47	SW 8082
PCB-1254	<3.9	mg/kg dw	10/30/1998	0.065	cls	372 47	SW 8082

ELV : Elevated reporting limits due to matrix interference.





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497443  
NET Job No.: 98.13169

Sample Description: S-24  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 16:30  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<3.9	mg/kg dw	10/30/1998	0.065	cls	372 47	SW 8082
Decachlorobiphenyl (Surr)	Masked	†	10/30/1998	NA	cls	372 47	SW 8082
2,4,5,6-TCMX (Surr)	72.0	†	10/30/1998	NA	cls	372 47	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

Sample No. : 497444

NET Job No.: 98.13169

Sample Description: S-25  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 17:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.30	units	10/16/1998	0.10	nwg	174	SW 9045B
Solids, Total	94.4	†	11/02/1998	0.1	nwg	2518	SM 2540
Arsenic, GFAA	3.2	mg/kg dw	10/31/1998	0.53	mhp	227 666	SW 7060
Barium, ICP	212	mg/kg dw	10/30/1998	1.1	jtc	1153 2169	SW 6010B
Cadmium, ICP	1.5	mg/kg dw	10/30/1998	0.53	jtc	1153 2155	SW 6010B
Chromium, ICP	30	mg/kg dw	10/30/1998	2.1	jtc	1153 2140	SW 6010B
Lead, ICP	43	mg/kg dw	11/02/1998	4.2	jtc	1153 2382	SW 6010B
Mercury, CVAA	<0.042	mg/kg dw	10/27/1998	0.042	sep	662 767	SW 7471A
Selenium, GFAA	<0.26	mg/kg dw	11/01/1998	0.26	mhp	227 552	SW 7740
Silver, AA	<2.1	mg/kg dw	10/27/1998	2.1	sep	484 567	SW 7760
<hr/>							
Prep. TPH-8015M--NONAQUEOUS	extracted		10/21/1998		mmv	240	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<212	mg/kg dw	10/29/1998	53	out	240 485	SW 8015M
TPH as Diesel	<212	mg/kg dw	10/29/1998	53	out	240 485	SW 8015M
TPH as Oil	4,420	mg/kg dw	10/29/1998	53	out	240 485	SW 8015M
N-octacosane (TPH surr)	Diluted out	mg/kg dw	10/29/1998		out	240 485	SW 8015M
<hr/>							
UST VOLATILES NON-AQUEOUS							
Benzene	<0.005	mg/kg dw	10/21/1998	0.005	jap	45	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/21/1998	0.005	jap	45	SW 8260A
Toluene	<0.005	mg/kg dw	10/21/1998	0.005	jap	45	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/21/1998	0.005	jap	45	SW 8260A
Dibromofluoromethane (Surr)	120.0	†	10/21/1998	81-129	jap	45	SW 8260A
Toluene-d8 (Surr)	96.0	†	10/21/1998	74-129	jap	45	SW 8260A
4-Bromofluoromethane (Surr)	96.0	†	10/21/1998	70-130	jap	45	SW 8260A
<hr/>							
Prep. 8310 PNAs NON-AQUEOUS	COMPLETE		10/20/1998		rmw	763	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497444  
NET Job No.: 98.13169

Sample Description: S-25  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 17:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMFDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.088	mg/kg dw	10/23/1998	0.021	rmm	763 1816	SW 8310
Acenaphthylene	<0.088	mg/kg dw	10/23/1998	0.021	rmm	763 1816	SW 8310
Anthracene	0.41	mg/kg dw	10/23/1998	0.042	rmm	763 1816	SW 8310
Benzo (a) anthracene	0.60	mg/kg dw	10/23/1998	0.011	rmm	763 1816	SW 8310
Benzo (b) fluoranthene	0.33	mg/kg dw	10/23/1998	0.011	rmm	763 1816	SW 8310
Benzo (k) fluoranthene	0.15	mg/kg dw	10/23/1998	0.011	rmm	763 1816	SW 8310
Benzo (a) pyrene	0.43	mg/kg dw	10/23/1998	0.011	rmm	763 1816	SW 8310
Benzo (ghi) perylene	0.30	mg/kg dw	10/23/1998	0.042	rmm	763 1816	SW 8310
Chrysene	0.60	mg/kg dw	10/23/1998	0.032	rmm	763 1816	SW 8310
Dibenzo (a,h) anthracene	<0.044	mg/kg dw	10/23/1998	0.011	rmm	763 1816	SW 8310
Fluoranthene	1.7	mg/kg dw	10/23/1998	0.021	rmm	763 1816	SW 8310
Fluorene	0.41	mg/kg dw	10/23/1998	0.021	rmm	763 1816	SW 8310
Indeno (1,2,3-cd) pyrene	0.18	mg/kg dw	10/23/1998	0.011	rmm	763 1816	SW 8310
Naphthalene	<0.11	mg/kg dw	10/23/1998	0.026	rmm	763 1816	SW 8310
Phenanthrene	1.3	mg/kg dw	10/23/1998	0.042	rmm	763 1816	SW 8310
Pyrene	1.7	mg/kg dw	10/23/1998	0.021	rmm	763 1816	SW 8310
Surr: p-Terphenyl	Diluted out		10/23/1998	43-125	rmm	763 1816	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/22/1998	COMPLETE	wna	373	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.042	mg/kg dw	10/27/1998	0.042	cls	373 46	SW 8082
PCB-1221	<0.042	mg/kg dw	10/27/1998	0.042	cls	373 46	SW 8082
PCB-1232	<0.042	mg/kg dw	10/27/1998	0.042	cls	373 46	SW 8082
PCB-1242	0.10	mg/kg dw	10/30/1998	0.042	cls	373 47	SW 8082
PCB-1248	<0.042	mg/kg dw	10/27/1998	0.042	cls	373 46	SW 8082
PCB-1254	0.16	mg/kg dw	10/30/1998	0.042	cls	373 47	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998  
Sample No. : 497444  
NET Job No.: 98.13169

Sample Description: S-25  
ComEd-Powerton; 1801-023-510

Date Taken: 10/08/1998  
Time Taken: 17:00  
IEPA Cert. No. 100221

Date Received: 10/09/1998  
Time Received: 16:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.042	mg/kg dw	10/30/1998	0.042	cls	373 47	SW 8082
Decachlorobiphenyl (Surr)	146.0	µ	10/27/1998	NA	cls	373 46	SW 8082
2,4,5,6-TCDF (Surr)	82.0	µ	10/27/1998	NA	cls	373 46	SW 8082



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Run Batch Number	CCV		Percent Recovery
		True Conc.	Conc. Found	
pH, Non-Aqueous	172	7.00	7.01	100.1
pH, Non-Aqueous	173	7.00	7.01	100.1
pH, Non-Aqueous	174	7.00	6.93	99.0
Arsenic, GFAA	662	0.0250	0.0242	96.8
Arsenic, GFAA	666	0.0250	0.0226	90.4
Arsenic, GFAA	667	0.0250	0.0250	100.0
Barium, ICP	2160	2.00	2.09	104.5
Barium, ICP	2169	2.00	2.05	102.5
Cadmium, ICP	2139	1.00	1.01	101.0
Cadmium, ICP	2154	1.00	1.05	105.0
Chromium, ICP	2125	2.00	2.04	102.0
Chromium, ICP	2139	2.00	2.06	103.0
Lead, ICP	2361	2.00	2.05	102.5
Lead, ICP	2376	2.00	1.97	98.5
Lead, ICP	2382	2.00	2.04	102.0
Mercury, CVAA	764	0.0025	0.00256	102.4
Mercury, CVAA	767	0.0025	0.00230	92.0
Selenium, GFAA	550	0.0500	0.0515	103.0
Selenium, GFAA	551	0.0500	0.0501	100.2
Selenium, GFAA	552	0.0500	0.0492	98.4
Selenium, GFAA	553	0.0500	0.0524	104.8
Selenium, GFAA	554	0.0500	0.0508	101.6
Silver, AA	566	0.50	0.494	98.8
Silver, AA	567	0.50	0.533	106.6
TPH MODIFIED 8015				
TPH as Gas	483	2,500	2,293	91.7
TPH as Diesel	483	2,500	2,756	110.2
TPH as Oil	483	2,500	2,194	87.8
N-octacosane (TPH surr)	483	100	109	109.0
TPH MODIFIED 8015				
TPH as Gas	483	2,500	2,560	102.4
TPH as Diesel	483	2,500	2,755	110.2
TPH as Oil	483	2,500	2,396	95.8
N-octacosane (TPH surr)	483	100	107	107.0

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
<b>TPH MODIFIED 8015</b>				
TPH as Gas	483	2,500	2,544	101.8
TPH as Diesel	483	2,500	2,623	104.9
TPH as Oil	483	2,500	2,396	95.8
N-octacosane (TPH surr)	483	100	101	101.0
<b>UST VOLATILES NON-AQUEOUS</b>				
Benzene	43	50.0	54.7	109.4
Ethylbenzene	43	50.0	56.4	112.8
Toluene	43	50.0	55.2	110.4
Xylenes, Total	43	150	162	108.0
<b>UST VOLATILES NON-AQUEOUS</b>				
Benzene	44	50.0	54.1	108.2
Ethylbenzene	44	50.0	55.3	110.6
Toluene	44	50.0	54.5	109.0
Xylenes, Total	44	150	161	107.3
<b>UST VOLATILES NON-AQUEOUS</b>				
Benzene	45	50.0	54.9	109.8
Ethylbenzene	45	50.0	57.0	114.0
Toluene	45	50.0	55.4	110.8
Xylenes, Total	45	150	164	109.3
<b>FNA CMPDS - 8310 NONAQUEOUS</b>				
Acenaphthene	1814	25	23.7	94.8
Acenaphthylene	1814	25	24.6	98.4
Anthracene	1814	25	23.3	93.2
Benzo (a) anthracene	1814	25	24.9	99.6
Benzo (b) fluoranthene	1814	25	26.8	107.2
Benzo (k) fluoranthene	1814	25	25.7	102.8
Benzo (a) pyrene	1814	25	22.3	89.2
Benzo (ghi) perylene	1814	25	26.0	104.0
Chrysene	1814	25	26.5	106.0
Dibenzo (a, h) anthracene	1814	25	27.5	110.0
Fluoranthene	1814	25	27.6	110.4
Fluorene	1814	25	26.7	106.8
Indeno (1,2,3-cd) pyrene	1814	25	24.1	96.4

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Naphthalene	1814	25	26.7	106.8
Phenanthrene	1814	25	26.3	105.2
Pyrene	1814	25	26.5	106.0
Surr: p-Terphenyl	1814	c	c	
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1814	25	23.4	93.6
Acenaphthylene	1814	25	24.3	97.2
Anthracene	1814	25	22.2	88.8
Benzo (a) anthracene	1814	25	23.4	93.6
Benzo (b) fluoranthene	1814	25	23.8	95.2
Benzo (k) fluoranthene	1814	25	24.4	97.6
Benzo (a) pyrene	1814	25	25.7	102.8
Benzo (ghi) perylene	1814	25	27.9	111.6
Chrysene	1814	25	25.6	102.4
Dibenzo (a, h) anthracene	1814	25	25.9	103.6
Fluoranthene	1814	25	26.2	104.8
Fluorene	1814	25	26.9	107.6
Indeno (1, 2, 3-cd) pyrene	1814	25	22.6	90.4
Naphthalene	1814	25	26.6	106.4
Phenanthrene	1814	25	26.1	104.4
Pyrene	1814	25	25.3	101.2
Surr: p-Terphenyl	1814	c	c	
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1814	25	22.9	91.6
Acenaphthylene	1814	25	24	96.0
Anthracene	1814	25	22.6	90.4
Benzo (a) anthracene	1814	25	25.1	100.4
Benzo (b) fluoranthene	1814	25	23.7	94.8
Benzo (k) fluoranthene	1814	25	26.4	105.6
Benzo (a) pyrene	1814	25	26.1	104.4
Benzo (ghi) perylene	1814	25	25.5	102.0
Chrysene	1814	25	26.8	107.2
Dibenzo (a, h) anthracene	1814	25	26.1	104.4
Fluoranthene	1814	25	25.4	101.6

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Fluorene	1814	25	26.8	107.2
Indeno(1,2,3-cd)pyrene	1814	25	26.2	104.8
Naphthalene	1814	25	26.9	107.6
Phenanthrene	1814	25	25.9	103.6
Pyrene	1814	25	25.3	101.2
Surr: p-Terphenyl	1814	c	c	
PNA CMPS - 8310 NONAQUEOUS				
Acenaphthene	1814	25	23.7	94.8
Acenaphthylene	1814	25	24.3	97.2
Anthracene	1814	25	23	92.0
Benzo(a)anthracene	1814	25	25.7	102.8
Benzo(b)fluoranthene	1814	25	24.4	97.6
Benzo(k)fluoranthene	1814	25	26.5	106.0
Benzo(a)pyrene	1814	25	27	108.0
Benzo(ghi)perylene	1814	25	26.8	107.2
Chrysene	1814	25	27.3	109.2
Dibenzo(a,h)anthracene	1814	25	26.9	107.6
Fluoranthene	1814	25	26.4	105.6
Fluorene	1814	25	26.9	107.6
Indeno(1,2,3-cd)pyrene	1814	25	26	104.0
Naphthalene	1814	25	26.9	107.6
Phenanthrene	1814	25	26.5	106.0
Pyrene	1814	25	26	104.0
Surr: p-Terphenyl	1814	c	c	
PNA CMPS - 8310 NONAQUEOUS				
Acenaphthene	1815	25	23.1	92.4
Acenaphthylene	1815	25	24.1	96.4
Anthracene	1815	25	22.9	91.6
Benzo(a)anthracene	1815	25	26.4	105.6
Benzo(b)fluoranthene	1815	25	27	108.0
Benzo(k)fluoranthene	1815	25	25.5	102.0
Benzo(a)pyrene	1815	25	24.5	98.0
Benzo(ghi)perylene	1815	25	26.6	106.4
Chrysene	1815	25	27.5	110.0

CCV - Continuing Calibration Verification





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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Dibenzo (a,h) anthracene	1815	25	26	104.0
Fluoranthene	1815	25	25.9	103.6
Fluorene	1815	25	26.9	107.6
Indeno (1,2,3-cd) pyrene	1815	25	23	92.0
Naphthalene	1815	25	26.7	106.8
Phenanthrene	1815	25	25.7	102.8
Pyrene	1815	25	25.9	103.6
Surr: p-Terphenyl	1815	c	c	
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1815	25	23.4	93.6
Acenaphthylene	1815	25	24.3	97.2
Anthracene	1815	25	22.6	90.4
Benzo (a) anthracene	1815	25	25.7	102.8
Benzo (b) fluoranthene	1815	25	26.9	107.6
Benzo (k) fluoranthene	1815	25	26.5	106.0
Benzo (a) pyrene	1815	25	25.4	101.6
Benzo (ghi) perylene	1815	25	24.8	99.2
Chrysene	1815	25	26.6	106.4
Dibenzo (a,h) anthracene	1815	25	26.6	106.4
Fluoranthene	1815	25	26.7	106.8
Fluorene	1815	25	26.5	106.0
Indeno (1,2,3-cd) pyrene	1815	25	24.8	99.2
Naphthalene	1815	25	26.6	106.4
Phenanthrene	1815	25	26.1	104.4
Pyrene	1815	25	26.2	104.8
Surr: p-Terphenyl	1815	c	c	
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1815	25	23.6	94.4
Acenaphthylene	1815	25	25.2	100.8
Anthracene	1815	25	23.6	94.4
Benzo (a) anthracene	1815	25	26.5	106.0
Benzo (b) fluoranthene	1815	25	26.5	106.0
Benzo (k) fluoranthene	1815	25	26.4	105.6
Benzo (a) pyrene	1815	25	26.8	107.2

CCV - Continuing Calibration Verification



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Benzo (ghi)perylene	1815	25	26.6	106.4
Chrysene	1815	25	26.9	107.6
Dibenzo (a,h)anthracene	1815	25	26.1	104.4
Fluoranthene	1815	25	27.1	108.4
Fluorene	1815	25	26.6	106.4
Indeno (1,2,3-cd)pyrene	1815	25	24.8	99.2
Naphthalene	1815	25	27	108.0
Phenanthrene	1815	25	26	104.0
Pyrene	1815	25	26.7	106.8
Surr: p-Terphenyl	1815	c	c	
PNA CMPS - 8310 NONAQUEOUS				
Acenaphthene	1815	25	23.2	92.8
Acenaphthylene	1815	25	25.4	101.6
Anthracene	1815	25	23.1	92.4
Benzo (a) anthracene	1815	25	26.1	104.4
Benzo (b) fluoranthene	1815	25	26	104.0
Benzo (k) fluoranthene	1815	25	26.1	104.4
Benzo (a) pyrene	1815	25	26.3	105.2
Benzo (ghi)perylene	1815	25	26.6	106.4
Chrysene	1815	25	26.3	105.2
Dibenzo (a,h)anthracene	1815	25	26	104.0
Fluoranthene	1815	25	26.2	104.8
Fluorene	1815	25	26.9	107.6
Indeno (1,2,3-cd)pyrene	1815	25	23	92.0
Naphthalene	1815	25	27.2	108.8
Phenanthrene	1815	25	26.7	106.8
Pyrene	1815	25	25.9	103.6
Surr: p-Terphenyl	1815	c	c	
PNA CMPS - 8310 NONAQUEOUS				
Acenaphthene	1816	25	23.6	94.4
Acenaphthylene	1816	25	24.4	97.6
Anthracene	1816	25	22.7	90.8
Benzo (a) anthracene	1816	25	24.5	98.0
Benzo (b) fluoranthene	1816	25	26.6	106.4

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Pound	Percent Recovery
	Batch Number	True Conc.		
Benzo (k) fluoranthene	1816	25	26	104.0
Benzo (a) pyrene	1816	25	24.3	97.2
Benzo (ghi) perylene	1816	25	25.4	101.6
Chrysene	1816	25	27.3	109.2
Dibenzo (a, h) anthracene	1816	25	26.3	105.2
Fluoranthene	1816	25	26.5	106.0
Fluorene	1816	25	26.9	107.6
Indeno (1, 2, 3-cd) pyrene	1816	25	25.2	100.8
Naphthalene	1816	25	26.7	106.8
Phenanthrene	1816	25	26.4	105.6
Pyrene	1816	25	26.2	104.8
Surr: p-Terphenyl	1816	c	c	
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1816	25	23.5	94.0
Acenaphthylene	1816	25	24.5	98.0
Anthracene	1816	25	22.7	90.8
Benzo (a) anthracene	1816	25	25.5	102.0
Benzo (b) fluoranthene	1816	25	26.2	104.8
Benzo (k) fluoranthene	1816	25	26.4	105.6
Benzo (a) pyrene	1816	25	25	100.0
Benzo (ghi) perylene	1816	25	27.2	108.8
Chrysene	1816	25	26.9	107.6
Dibenzo (a, h) anthracene	1816	25	26.5	106.0
Fluoranthene	1816	25	26.2	104.8
Fluorene	1816	25	26.9	107.6
Indeno (1, 2, 3-cd) pyrene	1816	25	26.1	104.4
Naphthalene	1816	25	26.7	106.8
Phenanthrene	1816	25	27.1	108.4
Pyrene	1816	25	26	104.0
Surr: p-Terphenyl	1816	c	c	
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1817	25	23.9	95.6
Acenaphthylene	1817	25	24.6	98.4
Anthracene	1817	25	23	92.0

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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
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11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Benzo(a)anthracene	1817	25	26.7	106.8
Benzo(b)fluoranthene	1817	25	26.6	106.4
Benzo(k)fluoranthene	1817	25	26.7	106.8
Benzo(a)pyrene	1817	25	27	108.0
Benzo(ghi)perylene	1817	25	27.4	109.6
Chrysene	1817	25	27.9	111.6
Dibenzo(a,h)anthracene	1817	25	25	100.0
Fluoranthene	1817	25	26.9	107.6
Fluorene	1817	25	27.7	110.8
Indeno(1,2,3-cd)pyrene	1817	25	26.8	107.2
Naphthalene	1817	25	27.5	110.0
Phenanthrene	1817	25	27.1	108.4
Pyrene	1817	25	26.8	107.2
Surr: p-Terphenyl	1817	c	c	
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1817	25	23.9	95.6
Acenaphthylene	1817	25	24.6	98.4
Anthracene	1817	25	22.9	91.6
Benzo(a)anthracene	1817	25	26.8	107.2
Benzo(b)fluoranthene	1817	25	26.8	107.2
Benzo(k)fluoranthene	1817	25	26.9	107.6
Benzo(a)pyrene	1817	25	27.2	108.8
Benzo(ghi)perylene	1817	25	25.3	101.2
Chrysene	1817	25	28	112.0
Dibenzo(a,h)anthracene	1817	25	27.1	108.4
Fluoranthene	1817	25	26.9	107.6
Fluorene	1817	25	27.7	110.8
Indeno(1,2,3-cd)pyrene	1817	25	24.8	99.2
Naphthalene	1817	25	27.5	110.0
Phenanthrene	1817	25	27.1	108.4
Pyrene	1817	25	26.6	106.4
Surr: p-Terphenyl	1817	c	c	
PCB'S NON-AQUEOUS				
PCB-1016	42	500	510	102.0

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc.	Percent
	Batch	True		
	Number	Conc.	Found	Recovery
PCB-1260	42	500	515	103.0
PCB'S NON-AQUEOUS				
PCB-1016	42	500	484	96.8
PCB-1260	42	500	485	97.0
PCB'S NON-AQUEOUS				
PCB-1016	42	500	456	91.2
PCB-1260	42	500	455	91.0
PCB'S NON-AQUEOUS				
PCB-1016	42	500	484	96.8
PCB-1260	42	500	487	97.4
PCB'S NON-AQUEOUS				
PCB-1016	44	500	493	98.6
PCB-1260	44	500	478	95.6
PCB'S NON-AQUEOUS				
PCB-1016	44	500	506	101.2
PCB-1260	44	500	491	98.2
PCB'S NON-AQUEOUS				
PCB-1016	46	500	519	103.8
PCB-1260	46	500	519	103.8
PCB'S NON-AQUEOUS				
PCB-1016	46	500	472	94.4
PCB-1260	46	500	492	98.4
PCB'S NON-AQUEOUS				
PCB-1016	46	500	478	95.6
PCB-1260	46	500	476	95.2
PCB'S NON-AQUEOUS				
PCB-1016	46	500	505	101.0
PCB-1260	46	500	500	100.0
PCB'S NON-AQUEOUS				
PCB-1016	46	500	487	97.4
PCB-1260	46	500	489	97.8
PCB'S NON-AQUEOUS				
PCB-1016	47	500	491	98.2
PCB-1260	47	500	502	100.4

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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
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11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
PCB'S NON-AQUEOUS				
PCB-1016	47	500	464	92.8
PCB-1260	47	500	479	95.8
PCB'S NON-AQUEOUS				
PCB-1016	47	500	474	94.8
PCB-1260	47	500	470	94.0
PCB'S NON-AQUEOUS				
PCB-1016	47	500	464	92.8
PCB-1260	47	500	470	94.0
PCB'S NON-AQUEOUS				
PCB-1016	47	500	475	95.0
PCB-1260	47	500	494	98.8

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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA	223	661	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	224	661	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	227	666	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	225	667	<0.50	mg/Kg	0.50	SW 7060
Barium, ICP	1151	2160	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1152	2160	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1150	2148	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1153	2169	<1.0	mg/Kg	1.0	SW 6010B
Cadmium, ICP	1151	2139	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1152	2139	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1150	2135	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1153	2155	<0.50	mg/Kg	0.50	SW 6010B
Chromium, ICP	1151	2125	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1152	2125	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1150	2121	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1153	2140	<2.0	mg/Kg	2.0	SW 6010B
Lead, ICP	1151	2361	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1152	2361	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1150	2357	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1153	2380	<4.0	mg/Kg	4.0	SW 6010B
Mercury, CVAA	660	764	<0.040	mg/Kg	0.040	SW 7471A
Mercury, CVAA	662	767	<0.040	mg/Kg	0.040	SW 7471A
Selenium, GFAA	223	548	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	224	549	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	227	551	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	225	553	<0.25	mg/Kg	0.25	SW 7740
Silver, AA	482	566	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	483	566	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	484	567	<2.0	mg/Kg	2.0	SW 7760

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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**QUALITY CONTROL REPORT**

**BLANK ANALYSIS**

ENSR  
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11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Silver, AA	485	567	<2.0	mg/Kg	2.0	SW 7760
TPH MODIFIED 8015						SW 8015M
TPH as Gas	239	481	<50.	mg/Kg	50	SW 8015M
TPH as Diesel	239	481	<50.	mg/Kg	50	SW 8015M
TPH as Oil	239	481	<50.	mg/Kg	50	SW 8015M
N-octacosane (TPH surr)	239	481	109.0	µ		SW 8015M
TPH MODIFIED 8015						SW 8015M
TPH as Gas	240	485	<50	mg/Kg	50	SW 8015M
TPH as Diesel	240	485	<50	mg/Kg	50	SW 8015M
TPH as Oil	240	485	<50	mg/Kg	50	SW 8015M
N-octacosane (TPH surr)	240	485	107.0	µ		SW 8015M
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		43	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		43	<0.005	mg/Kg	0.005	SW 8260A
Toluene		43	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		43	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		43	95.2	µ	74-134	SW 8260A
Toluene-d8 (Surr)		43	103.2	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		43	101.6	µ	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		44	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		44	<0.005	mg/Kg	0.005	SW 8260A
Toluene		44	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		44	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		44	104.4	µ	74-134	SW 8260A
Toluene-d8 (Surr)		44	112.2	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		44	111.4	µ	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		45	<0.005	mg/Kg	0.005	SW 8260A

Advisory Control Limits for Blanks:

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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
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11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Ethylbenzene		45	<0.005	mg/Kg	0.005	SW 8260A
Toluene		45	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		45	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		45	101.2	µ	74-134	SW 8260A
Toluene-d8 (Surr)		45	109.8	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		45	106.2	µ	64-131	SW 8260A
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene		1814	<0.66	mg/Kg	0.020	SW 8310
Acenaphthylene		1814	<0.66	mg/Kg	0.020	SW 8310
Anthracene		1814	<1.3	mg/Kg	0.040	SW 8310
Benzo(a)anthracene		1814	<0.33	mg/Kg	0.010	SW 8310
Benzo(b)fluoranthene		1814	<0.33	mg/Kg	0.010	SW 8310
Benzo(k)fluoranthene		1814	<0.33	mg/Kg	0.010	SW 8310
Benzo(a)pyrene		1814	<0.33	mg/Kg	0.010	SW 8310
Benzo(ghi)perylene		1814	<1.3	mg/Kg	0.040	SW 8310
Chrysene		1814	<0.99	mg/Kg	0.030	SW 8310
Dibenzo(a,h)anthracene		1814	<0.33	mg/Kg	0.010	SW 8310
Fluoranthene		1814	<0.66	mg/Kg	0.020	SW 8310
Fluorene		1814	<0.66	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene		1814	<0.33	mg/Kg	0.010	SW 8310
Naphthalene		1814	<0.82	mg/Kg	0.025	SW 8310
Phenanthrene		1814	<1.3	mg/Kg	0.040	SW 8310
Pyrene		1814	<0.66	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl		1814	85.0	µ	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene		1815	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene		1815	<0.020	mg/Kg	0.020	SW 8310
Anthracene		1815	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene		1815	<0.010	mg/Kg	0.010	SW 8310

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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### BLANK ANALYSIS

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11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Prep	Run	Blank	Units	Reporting Limit	Analytical Method
	Batch Number	Batch Number	Analysis Results			
Benzo(b)fluoranthene		1815	<0.010	mg/Kg	0.010	SW 8310
Benzo(k)fluoranthene		1815	<0.010	mg/Kg	0.010	SW 8310
Benzo(a)pyrene		1815	<0.010	mg/Kg	0.010	SW 8310
Benzo(ghi)perylene		1815	<0.040	mg/Kg	0.040	SW 8310
Chrysene		1815	<0.030	mg/Kg	0.030	SW 8310
Dibenzo(a,h)anthracene		1815	<0.010	mg/Kg	0.010	SW 8310
Fluoranthene		1815	<0.020	mg/Kg	0.020	SW 8310
Fluorene		1815	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene		1815	<0.010	mg/Kg	0.010	SW 8310
Naphthalene		1815	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene		1815	<0.040	mg/Kg	0.040	SW 8310
Pyrene		1815	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl		1815	92.0	µ	43-125	SW 8310
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	371	42	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	371	42	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	371	42	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	371	42	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	371	42	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	371	42	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	371	42	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	371	42	98.0	µ	NA	SW 8082
2,4,5,6-TCMX (Surr)	371	42	90.0	µ	NA	SW 8082
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	372	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	372	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	372	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	372	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	372	46	<0.040	mg/Kg	0.040	SW 8082

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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Fax: (630) 289-5445

Rockford Division  
3548 35th Street  
Rockford, IL 61109  
Tel: (815) 874-2171  
Fax: (815) 874-5622  
(800) 807-2877

## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
PCB-1254	372	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	372	46	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	372	46	97.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	372	46	92.0	%	NA	SW 8082
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	373	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	373	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	373	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	373	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	373	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	373	46	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	373	46	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	373	46	91.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	373	46	72.0	%	NA	SW 8082

...

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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**QUALITY CONTROL REPORT**

**LABORATORY CONTROL STANDARD**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Arsenic, GFAA	223	661	0.0100	0.0105	105.0
Arsenic, GFAA	224	661	0.0100	0.0099	99.0
Arsenic, GFAA	227	666	0.0100	0.0096	96.0
Arsenic, GFAA	225	667	0.0100	0.0082	82.0
Barium, ICP	1151	2160	5.00	5.20	104.0
Barium, ICP	1152	2160	5.00	5.23	104.6
Barium, ICP	1150	2168	5.00	5.18	103.6
Barium, ICP	1153	2169	5.00	5.06	101.2
Cadmium, ICP	1151	2139	2.50	2.40	96.0
Cadmium, ICP	1152	2139	2.50	2.40	96.0
Cadmium, ICP	1150	2135	2.50	2.54	101.6
Cadmium, ICP	1153	2155	2.50	2.52	100.8
Chromium, ICP	1151	2125	5.00	4.60	92.0
Chromium, ICP	1152	2125	5.00	5.05	101.0
Chromium, ICP	1150	2121	5.00	5.55	111.0
Chromium, ICP	1153	2140	5.00	5.22	104.4
Lead, ICP	1151	2361	5.00	5.50	110.0
Lead, ICP	1152	2361	5.00	5.75	115.0
Lead, ICP	1150	2357	5.00	5.8	116.0
Lead, ICP	1153	2380	50.0	52.4	104.8
Mercury, CVAA	660	764	0.0025	0.00267	106.8
Mercury, CVAA	662	767	0.0025	0.00251	100.4
Mercury, CVAA		767	0.0020	0.00220	110.0
Selenium, GFAA	223	548	0.0100	0.0085	85.0
Selenium, GFAA	224	549	0.0100	0.0090	90.0
Selenium, GFAA	227	551	0.0100	0.0118	118.0
Selenium, GFAA	225	555	0.0100	0.0102	102.0
Silver, AA	482	566	0.10	0.097	97.0
Silver, AA	483	566	0.10	0.096	96.0
Silver, AA	484	567	0.1	0.101	101.0
Silver, AA		567	1.0	0.922	92.2



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**QUALITY CONTROL REPORT**

**LABORATORY CONTROL STANDARD**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Silver, AA	485	567	0.1	0.098	98.0
TPH MODIFIED 8015					
TPH as Gas	239	481	200	217	108.5
TPH as Diesel	239	481	200	224	112.0
TPH as Oil	239	481	200	211	105.5
N-octacosane (TPH surr)	239	481	100	114	114.0
TPH MODIFIED 8015					
TPH as Gas	240	485	250	177	70.8
TPH as Diesel	240	485	250	191	76.4
TPH as Oil	240	485	250	204	81.6
N-octacosane (TPH surr)	240	485	100	121	121.0
UST VOLATILES NON-AQUEOUS					
Benzene		43	20.0	21.3	106.5
Ethylbenzene		43	20.0	23.3	116.5
Toluene		43	20.0	22.2	111.0
Xylenes, Total		43	60.0	65.3	108.8
Dibromofluoromethane (Surr)		43	50.0	49.8	99.6
Toluene-d8 (Surr)		43	50.0	53.0	106.0
4-Bromofluoromethane (Surr)		43	50.0	53.5	107.0
UST VOLATILES NON-AQUEOUS					
Benzene		44	20.0	21.3	106.5
Ethylbenzene		44	20.0	22.8	114.0
Toluene		44	20.0	21.9	109.5
Xylenes, Total		44	60.0	65.4	109.0
Dibromofluoromethane (Surr)		44	50.0	52.8	105.6
Toluene-d8 (Surr)		44	50.0	55.4	110.8
4-Bromofluoromethane (Surr)		44	50.0	56.1	112.2
UST VOLATILES NON-AQUEOUS					
Benzene		45	20.0	21.8	109.0
Ethylbenzene		45	20.0	23.1	115.5
Toluene		45	20.0	22.0	110.0



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**QUALITY CONTROL REPORT**

**LABORATORY CONTROL STANDARD**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Xylenes, Total		45	60.0	66.2	110.3
Dibromofluoromethane (Surr)		45	50.0	49.5	99.0
Toluene-d8 (Surr)		45	50.0	53.2	106.4
4-Bromofluoromethane (Surr)		45	50.0	51.6	103.2
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene		1814	0.33	0.15	45.5
Acenaphthylene		1814	0.66	0.29	43.9
Anthracene		1814	0.033	0.019	57.6
Benzo (a) anthracene		1814	0.033	0.031	93.9
Benzo (b) fluoranthene		1814	0.066	0.060	90.9
Benzo (k) fluoranthene		1814	0.033	0.040	121.2
Benzo (a) pyrene		1814	0.033	0.031	93.9
Benzo (ghi) perylene		1814	0.066	0.050	75.8
Chrysene		1814	0.033	0.032	97.0
Dibenzo (a, h) anthracene		1814	0.066	0.053	80.3
Fluoranthene		1814	0.066	0.052	78.8
Fluorene		1814	0.066	0.044	66.7
Indeno(1,2,3-cd)pyrene		1814	0.033	0.027	81.8
Naphthalene		1814	0.33	0.15	45.5
Phenanthrene		1814	0.033	0.023	69.7
Pyrene		1814	0.033	0.023	69.7
Surr: p-Terphenyl		1814	0.33	0.33	100.0
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene		1814	0.33	0.24	72.7
Acenaphthylene		1814	0.66	0.50	75.8
Anthracene		1814	0.033	0.026	78.8
Benzo (a) anthracene		1814	0.033	0.027	81.8
Benzo (b) fluoranthene		1814	0.066	0.062	93.9
Benzo (k) fluoranthene		1814	0.033	0.027	81.8
Benzo (a) pyrene		1814	0.033	0.029	87.9
Benzo (ghi) perylene		1814	0.066	0.057	86.4



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Chrysene		1814	0.033	0.028	84.8
Dibenzo (a,h)anthracene		1814	0.066	0.055	83.3
Fluoranthene		1814	0.066	0.054	81.8
Fluorene		1814	0.066	0.059	89.4
Indeno (1,2,3-cd)pyrene		1814	0.033	0.025	75.8
Naphthalene		1814	0.33	0.23	69.7
Phenanthrene		1814	0.033	0.024	72.7
Pyrene		1814	0.033	0.027	81.8
Surr: p-Terphenyl		1814	0.33	0.26	78.8
PCB'S NON-AQUEOUS					
PCB-1016	371	42	500	510	102.0
PCB-1260	371	42	500	528	105.6
Decachlorobiphenyl (Surr)	371	42	100	105	105.0
2,4,5,6-TCMX (Surr)	371	42	100	95	95.0
PCB'S NON-AQUEOUS					
PCB-1016	372	46	500	492	98.4
PCB-1260	372	46	500	500	100.0
Decachlorobiphenyl (Surr)	372	46	100	110	110.0
2,4,5,6-TCMX (Surr)	372	46	100	103	103.0
PCB'S NON-AQUEOUS					
PCB-1016	373	46	500	443	88.6
PCB-1260	373	46	500	494	98.8
Decachlorobiphenyl (Surr)	373	46	100	92	92.0
2,4,5,6-TCMX (Surr)	373	46	100	75	75.0



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**QUALITY CONTROL REPORT**

**DUPLICATES**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/04/1998

NET Job Number: 98.13169

Mr. Wei-Lin Feng

Analyte	Prep	Run	Original Analysis	Duplicate Analysis	Units	RPD
	Batch Number	Batch Number				
pH, Non-Aqueous		172	7.81	7.90	units	1.1
pH, Non-Aqueous		173	8.20	8.14	units	0.7
pH, Non-Aqueous		174	6.54	6.45	units	1.4
Solids, Total		2517	99.1	99.1	‡	0.0
Solids, Total		2517	55.0	58.2	‡	5.7
Solids, Total		2518	88.6	85.7	‡	3.3
Solids, Total		2518	86.9	86.3	‡	0.7
Solids, Total		2518	92.3	91.6	‡	0.8
Solids, Total		2521	64.4	63.1	‡	2.0
Solids, Total		2521	93.7	94.3	‡	0.6
Solids, Total		2521	95.9	95.5	‡	0.4
Solids, Total		2521	86.6	87.8	‡	1.4
Solids, Total		2521	88.5	88.4	‡	0.1
Solids, Total		2521	86.4	86.9	‡	0.6

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.





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NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
- mg/L : Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
- ug/g : Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
- ug/L : Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
- ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
- TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
- Surr: : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
- % : Percent; To convert ppm to %, divide the result by 10,000.  
To convert % to ppm, multiply the result by 10,000.
- ICP : Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
- AA : Indicates analysis was performed using Atomic Absorption Spectroscopy.
- GFAA : Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
- PQL : Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

- (1) Methods 1000 through 9999; see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
- (2) ASTM "American Society for Testing Materials"
- (3) Methods 100 through 499; see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
- (4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
- (5) Methods 600 through 625; see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- (6) Methods 500 through 599; see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.



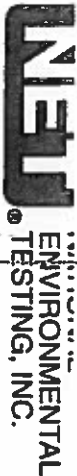
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- 
- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.
-





**UTILITY OF VERMONT**  
**COMPANY** ENVR Corporation  
**ADDRESS** 740 Pasquetti, 1105 Street  
**PHONE** (630) 989-1700 **FAX** 630-850-5307  
**PROJECT NAME/LOCATION** Cornell - Pawlston  
**PROJECT NUMBER** 1501-023-511  
**PROJECT MANAGER** Alex-Lin Ferry

**REPORT TO:** Alex-Lin Ferry  
**INVOICE TO:** \_\_\_\_\_  
**P.O. NO.** \_\_\_\_\_  
**NET QUOTE NO.** \_\_\_\_\_

**SAMPLED BY** Pat Luski  
**(PRINT NAME)** \_\_\_\_\_  
**SIGNATURE** \_\_\_\_\_

**SIGNATURE** \_\_\_\_\_  
**ANALYSES**

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	HCl	NaOH	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	# and Type of Containers		COMMENTS
										OTHER		
10/19/98	0800	S-1		X								
10/30		S-2										
09/15		S-3										
09/15		S-4										
09/30		S-5										
10/02		S-10										
11/5		S-7										
11/30		S-8										
11/02		S-9										
11/5		S-10										
11/30		S-11										
12/01		S-12										
1/3/98		S-14										

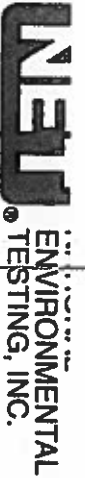
**CONDITION OF SAMPLE:** BOTTLES INTACT? (YES/NO) \_\_\_\_\_  
 FIELD FILTERED? (YES/NO) \_\_\_\_\_  
 COC SEALS PRESENT AND INTACT? (YES/NO) \_\_\_\_\_  
 VOLATILES FREE OF HEADSPACE? (YES/NO) \_\_\_\_\_  
**SAMPLE REMAINDER DISPOSAL:** RETURN SAMPLE REMAINDER TO CLIENT VIA \_\_\_\_\_  
 I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS \_\_\_\_\_  
**TEMPERATURE UPON RECEIPT:** \_\_\_\_\_  
 Bottles supplied by NET? (YES/NO) \_\_\_\_\_

**RECEIVED BY:** \_\_\_\_\_  
**DATE:** \_\_\_\_\_  
**TIME:** \_\_\_\_\_  
**RECEIVED FOR NET BY:** \_\_\_\_\_

**RECEIVED BY:** \_\_\_\_\_  
**DATE:** \_\_\_\_\_  
**TIME:** \_\_\_\_\_  
**RECEIVED FOR NET BY:** \_\_\_\_\_

**METHOD OF SHIPMENT:** NET  
**REMARKS:** \_\_\_\_\_





UTAH UT UOUIUUI NEUUNU  
 COMPANY ENISE  
 ADDRESS 740 Pasquelli, Westmont  
 PHONE 430-887-1700 FAX 430-850-5307  
 PROJECT NAME/LOCATION Comed - Fawcett  
 PROJECT NUMBER 1801-033-5710  
 PROJECT MANAGER Wli-Lin Feng

REPORT TO: Wli-Lin Feng  
 INVOICE TO: \_\_\_\_\_  
 P.O. NO. \_\_\_\_\_  
 NET QUOTE NO. \_\_\_\_\_

SAMPLED BY R. Houster  
 (PRINT NAME) R. Houster  
 SIGNATURE [Signature]

To assist us in selecting the proper method  
 Is this work being conducted for regulatory compliance monitoring? Yes \_\_\_ No \_\_\_  
 Is the work being conducted for regulatory enforcement action? Yes \_\_\_ No \_\_\_  
 Which regulations apply: RCRA \_\_\_ NPDES Wastewater \_\_\_  
 UST \_\_\_ Drinking Water \_\_\_  
 Other \_\_\_ None \_\_\_

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	* and Type of Containers						OTHER	ANALYSES	COMMENTS	
						HCl	NaOH	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	OTHER					
10/14/98	5-15			X											
10/14/98	5-16														
10/14/98	5-17														
10/14/98	5-18														
10/14/98	5-19														
10/14/98	5-20														
10/14/98	5-21														
10/14/98	5-22														
10/14/98	5-23														
10/14/98	5-24														
10/14/98	5-25														

CONDITION OF SAMPLE: BOTTLES INTACT?  YES /  NO  
 FIELD FILTERED?  YES /  NO  
 COC SEALS PRESENT AND INTACT?  YES /  NO  
 VOLATILES FREE OF HEADSPACE?  YES /  NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA \_\_\_\_\_  
 I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_ DATE: 10/14/98 TIME: 1500  
 RECEIVED BY: \_\_\_\_\_

METHOD OF SHIPMENT: NET  
 REMARKS: \_\_\_\_\_  
 DATE: 10/14/98 TIME: 1600 RECEIVED FOR NET BY: [Signature]





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Mr. Wei-Lin Feng  
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740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

IEPA Cert. No.: 100221  
WDNR Cert. No.: 999447130  
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: ComEd-Powerton; 1801-023-510

Sample Number	Sample Description	Date Taken	Date Received
496979	B-1	10/06/1998	10/08/1998
496980	B-4	10/06/1998	10/08/1998
496981	B-5	10/06/1998	10/08/1998
496982	B-6	10/06/1998	10/08/1998
496983	B-9	10/06/1998	10/08/1998
496984	B-10	10/06/1998	10/08/1998
496985	B-11	10/06/1998	10/08/1998
496986	B-12	10/06/1998	10/08/1998
496987	B-13	10/06/1998	10/08/1998
496988	B-14	10/06/1998	10/08/1998
496989	B-18	10/06/1998	10/08/1998
496990	B-35	10/06/1998	10/08/1998
496991	B-36	10/06/1998	10/08/1998
496992	B-15	10/07/1998	10/08/1998

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson  
Project Manager





**NATIONAL  
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Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

IEPA Cert. No.: 100221  
WDNR Cert. No.: 999447130  
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: ComEd-Powerton; 1801-023-510

Sample Number	Sample Description	Date Taken	Date Received
496993	B-16	10/07/1998	10/08/1998
496994	B-17	10/07/1998	10/08/1998
496995	B-19	10/07/1998	10/08/1998
496996	B-21	10/07/1998	10/08/1998
496997	B-22	10/07/1998	10/08/1998
496998	B-23	10/07/1998	10/08/1998
496999	B-25	10/07/1998	10/08/1998
497000	B-26	10/07/1998	10/08/1998
497001	B-27	10/07/1998	10/08/1998
497002	B-30	10/07/1998	10/08/1998
497003	B-31	10/07/1998	10/08/1998
497004	B-32	10/07/1998	10/08/1998
497005	B-33	10/07/1998	10/08/1998
497006	B-34	10/07/1998	10/08/1998

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson  
Project Manager



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496979  
NET Job No.: 98.13083

Sample Description: B-1  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 09:30  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.04	units	10/13/1998	0.10	nwg	166	SW 9045B
Solids, Total	88.0	%	10/20/1998	0.1	efw	2482	SM 2540
Arsenic, GPAA	6.1	mg/kg dw	10/20/1998	0.57	mhp	217 655	SW 7060
Barium, ICP	26	mg/kg dw	10/22/1998	1.1	kdw	1142 2148	SW 6010B
Cadmium, ICP	<0.57	mg/kg dw	10/19/1998	0.57	jct	1142 2127	SW 6010B
Chromium, ICP	6.9	mg/kg dw	10/19/1998	2.3	jct	1142 2113	SW 6010B
Lead, ICP	9.3	mg/kg dw	10/19/1998	4.5	jct	1142 2349	SW 6010B
Mercury, CVAA	<0.045	mg/kg dw	10/22/1998	0.045	sep	658 761	SW 7471A
Selenium, GPAA	<1.4	MX mg/kg dw	10/20/1998	0.28	mhp	217 542	SW 7740
Silver, AA	<2.3	mg/kg dw	10/21/1998	2.3	sep	477 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/16/1998	0.006	out	48	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/16/1998	0.006	out	48	SW 8260A
Toluene	<0.006	mg/kg dw	10/16/1998	0.006	out	48	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/16/1998	0.006	out	48	SW 8260A
Dibromofluoromethane (Surr)	92.0	%	10/16/1998	74-132	out	48	SW 8260A
Toluene-d8 (Surr)	100.0	%	10/16/1998	90-134	out	48	SW 8260A
4-Bromofluoromethane (Surr)	101.0	%	10/16/1998	64-131	out	48	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/14/1998		mmv	750	SW 3540C
<b>PNA CHPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.023	mg/kg dw	10/19/1998	0.023	keh	750 1800	SW 8310
Acenaphthylene	<0.023	mg/kg dw	10/19/1998	0.023	keh	750 1800	SW 8310
Anthracene	<0.045	mg/kg dw	10/19/1998	0.045	keh	750 1800	SW 8310
Benzo(a)anthracene	<0.0030	mg/kg dw	10/19/1998	0.0030	keh	750 1800	SW 8310
Benzo(b)fluoranthene	<0.0041	mg/kg dw	10/19/1998	0.0041	keh	750 1800	SW 9310

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR,  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496979  
NET Job No.: 98.13083

Sample Description: B-1  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 09:30  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	<0.0039	mg/kg dw	10/19/1998	0.0039	keh	750 1800	SW 8310
Benzo (a) pyrene	<0.0052	mg/kg dw	10/19/1998	0.0052	keh	750 1800	SW 8310
Benzo (ghi) perylene	<0.045	mg/kg dw	10/19/1998	0.045	keh	750 1800	SW 8310
Chrysene	<0.03	mg/kg dw	10/19/1998	0.03	keh	750 1800	SW 8310
Dibenzo (a,h) anthracene	<0.007	mg/kg dw	10/19/1998	0.007	keh	750 1800	SW 8310
Fluoranthene	<0.023	mg/kg dw	10/19/1998	0.023	keh	750 1800	SW 8310
Fluorene	<0.023	mg/kg dw	10/19/1998	0.023	keh	750 1800	SW 8310
Indeno (1,2,3-cd) pyrene	<0.0098	mg/kg dw	10/19/1998	0.0098	keh	750 1800	SW 8310
Naphthalene	<0.028	mg/kg dw	10/19/1998	0.028	keh	750 1800	SW 8310
Phenanthrene	<0.045	mg/kg dw	10/19/1998	0.045	keh	750 1800	SW 8310
Pyrene	<0.023	mg/kg dw	10/19/1998	0.023	keh	750 1800	SW 8310
Surr: p-Terphenyl	62.9	%	10/19/1998	43-125	keh	750 1800	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wma	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 39	SW 8082
PCB-1221	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 39	SW 8082
PCB-1232	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 39	SW 8082
PCB-1242	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 39	SW 8082
PCB-1248	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 39	SW 8082
PCB-1254	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 39	SW 8082
PCB-1260	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 39	SW 8082
Decachlorobiphenyl (Surr)	99.0	%	10/19/1998	NA	jrs	364 39	SW 8082
2,4,5,6-TCDF (Surr)	98.0	%	10/19/1998	NA	jrs	364 39	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496980  
NET Job No.: 98.13083

Sample Description: B-4  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 10:30  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.59	units	10/13/1998	0.10	nwg	166	SW 9045B
Solids, Total	97.6	%	10/20/1998	0.1	efw	2482	SM 2540
Arsenic, GFAA	6.0	M+ mg/kg dw	10/20/1998	0.51	mhp	217 655	SM 7060
Barium, ICP	13	mg/kg dw	10/22/1998	1.0	kdw	1142 2148	SM 6010B
Cadmium, ICP	<0.51	mg/kg dw	10/19/1998	0.51	jtt	1142 2127	SM 6010B
Chromium, ICP	5.5	mg/kg dw	10/19/1998	2.0	jtt	1142 2113	SM 6010B
Lead, ICP	7.6	mg/kg dw	10/19/1998	4.1	jtt	1142 2349	SM 6010B
Mercury, CVAA	<0.041	mg/kg dw	10/22/1998	0.041	sep	658 761	SM 7471A
Selenium, GFAA	<1.2	MX mg/kg dw	10/21/1998	0.26	mhp	217 542	SM 7740
Silver, AA	<2.0	mg/kg dw	10/21/1998	2.0	sep	477 564	SM 7760

UST VOLATILES NON-AQUEOUS

Benzene	<0.005	mg/kg dw	10/16/1998	0.005	out	48	SM 8260A
Ethylbenzene	<0.005	mg/kg dw	10/16/1998	0.005	out	48	SM 8260A
Toluene	<0.005	mg/kg dw	10/16/1998	0.005	out	48	SM 8260A
Xylenes, Total	<0.005	mg/kg dw	10/16/1998	0.005	out	48	SM 8260A
Dibromofluoromethane (Surr)	86.0	%	10/16/1998	74-132	out	48	SM 8260A
Toluene-d8 (Surr)	98.0	%	10/16/1998	90-134	out	48	SM 8260A
4-Bromofluoromethane (Surr)	113.0	%	10/16/1998	64-131	out	48	SM 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/14/1998		mvv	750	SM 3540C
PNA COMPS - 8310 NONAQUEOUS							
Acenaphthene	<0.020	mg/kg dw	10/19/1998	0.020	keh	750 1800	SM 8310
Acenaphthylene	<0.020	mg/kg dw	10/19/1998	0.020	keh	750 1800	SM 8310
Anthracene	<0.041	mg/kg dw	10/19/1998	0.041	keh	750 1800	SM 8310
Benzo(a)anthracene	<0.0027	mg/kg dw	10/19/1998	0.0027	keh	750 1800	SM 8310
Benzo(b)fluoranthene	<0.0037	mg/kg dw	10/19/1998	0.0037	keh	750 1800	SM 8310

M+ : Analyte quantified by MSA due to low spike recovery.  
MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496980  
NET Job No.: 98.13083

Sample Description: B-4  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 10:30  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	<0.0035	mg/kg dw	10/19/1998	0.0035	keh	750 1800	SW 8310
Benzo (a) pyrene	<0.0047	mg/kg dw	10/19/1998	0.0047	keh	750 1800	SW 8310
Benzo (ghi) perylene	<0.041	mg/kg dw	10/19/1998	0.041	keh	750 1800	SW 8310
Chrysene	<0.03	mg/kg dw	10/19/1998	0.03	keh	750 1800	SW 8310
Dibenzo (a,h) anthracene	<0.006	mg/kg dw	10/19/1998	0.006	keh	750 1800	SW 8310
Fluoranthene	<0.020	mg/kg dw	10/19/1998	0.020	keh	750 1800	SW 8310
Fluorene	<0.020	mg/kg dw	10/19/1998	0.020	keh	750 1800	SW 8310
Indeno (1,2,3-cd) pyrene	<0.0088	mg/kg dw	10/19/1998	0.0088	keh	750 1800	SW 8310
Naphthalene	<0.026	mg/kg dw	10/19/1998	0.026	keh	750 1800	SW 8310
Phenanthrene	<0.041	mg/kg dw	10/19/1998	0.041	keh	750 1800	SW 8310
Pyrene	<0.020	mg/kg dw	10/19/1998	0.020	keh	750 1800	SW 8310
Surr: p-Terphenyl	57.6	µ	10/19/1998	43-125	keh	750 1800	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.041	mg/kg dw	10/16/1998	0.041	jrs	364 37	SW 8082
PCB-1221	<0.041	mg/kg dw	10/16/1998	0.041	jrs	364 37	SW 8082
PCB-1232	<0.041	mg/kg dw	10/16/1998	0.041	jrs	364 37	SW 8082
PCB-1242	<0.041	mg/kg dw	10/16/1998	0.041	jrs	364 37	SW 8082
PCB-1248	<0.041	mg/kg dw	10/16/1998	0.041	jrs	364 37	SW 8082
PCB-1254	<0.041	mg/kg dw	10/16/1998	0.041	jrs	364 37	SW 8082
PCB-1260	<0.041	mg/kg dw	10/16/1998	0.041	jrs	364 37	SW 8082
Decachlorobiphenyl (Surr)	84.0	µ	10/16/1998	NA	jrs	364 37	SW 8082
2,4,5,6-TCDF (Surr)	81.0	µ	10/16/1998	NA	jrs	364 37	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 497005

NET Job No.: 98.13083

Sample Description: B-33  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 16:20  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.90	units	10/14/1998	0.10	nwg	169	SW 9045B
Solids, Total	90.0	t	10/20/1998	0.1	efw	2490	SM 2540
Arsenic, GFAA	2.3	mg/kg dw	10/22/1998	0.56	mhp	221 658	SW 7060
Barium, ICP	23	mg/kg dw	10/22/1998	1.1	kdw	1145 2148	SW 6010B
Cadmium, ICP	<0.56	mg/kg dw	10/22/1998	0.56	kdw	1145 2135	SW 6010B
Chromium, ICP	5.7	mg/kg dw	10/22/1998	2.2	kdw	1145 2121	SW 6010B
Lead, ICP	8.0	mg/kg dw	10/22/1998	4.4	kdw	1145 2357	SW 6010B
Mercury, CVAA	<0.044	mg/kg dw	10/22/1998	0.044	sep	659 761	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	10/24/1998	0.28	mhp	221 545	SW 7740
Silver, AA	<2.2	mg/kg dw	10/21/1998	2.2	sep	479 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/20/1998	0.006	out	51	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/20/1998	0.006	out	51	SW 8260A
Toluene	<0.006	mg/kg dw	10/20/1998	0.006	out	51	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/20/1998	0.006	out	51	SW 8260A
Dibromofluoromethane (Surr)	86.0	t	10/20/1998	74-132	out	51	SW 8260A
Toluene-d8 (Surr)	101.0	t	10/20/1998	90-134	out	51	SW 8260A
4-Bromofluoromethane (Surr)	104.0	t	10/20/1998	64-131	out	51	SW 8260A
Prep, 8310 PNA NON-AQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C
<b>PNA CMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.022	mg/kg dw	10/23/1998	0.022	keh	753 1806	SW 8310
Acenaphthylene	<0.022	mg/kg dw	10/23/1998	0.022	keh	753 1806	SW 8310
Anthracene	<0.044	mg/kg dw	10/23/1998	0.044	keh	753 1806	SW 8310
Benzo(a)anthracene	<0.0029	mg/kg dw	10/23/1998	0.0029	keh	753 1806	SW 8310
Benzo(b)fluoranthene	<0.0040	mg/kg dw	10/23/1998	0.0040	keh	753 1806	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 497004  
NET Job No.: 98.13083

Sample Description: B-32  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 15:45  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	<0.0039	mg/kg dw	10/23/1998	0.0039	keh	753 1806	SW 8310
Benzo(a)pyrene	<0.0053	mg/kg dw	10/23/1998	0.0053	keh	753 1806	SW 8310
Benzo(ghi)perylene	<0.046	mg/kg dw	10/23/1998	0.046	keh	753 1806	SW 8310
Chrysene	<0.03	mg/kg dw	10/23/1998	0.03	keh	753 1806	SW 8310
Dibenzo(a,h)anthracene	<0.007	mg/kg dw	10/23/1998	0.007	keh	753 1806	SW 8310
Fluoranthene	<0.023	mg/kg dw	10/23/1998	0.023	keh	753 1806	SW 8310
Fluorene	<0.023	mg/kg dw	10/23/1998	0.023	keh	753 1806	SW 8310
Indeno(1,2,3-cd)pyrene	<0.0099	mg/kg dw	10/23/1998	0.0099	keh	753 1806	SW 8310
Naphthalene	<0.029	mg/kg dw	10/23/1998	0.029	keh	753 1806	SW 8310
Phenanthrene	<0.046	mg/kg dw	10/23/1998	0.046	keh	753 1806	SW 8310
Pyrene	<0.023	mg/kg dw	10/23/1998	0.023	keh	753 1806	SW 8310
Surr: p-Terphenyl	81.8	t	10/23/1998	43-125	keh	753 1806	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	vna	365	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.046	mg/kg dw	10/20/1998	0.046	jrs	365 43	SW 8082
PCB-1221	<0.046	mg/kg dw	10/20/1998	0.046	jrs	365 43	SW 8082
PCB-1232	<0.046	mg/kg dw	10/20/1998	0.046	jrs	365 43	SW 8082
PCB-1242	<0.046	mg/kg dw	10/20/1998	0.046	jrs	365 43	SW 8082
PCB-1248	<0.046	mg/kg dw	10/20/1998	0.046	jrs	365 43	SW 8082
PCB-1254	<0.046	mg/kg dw	10/20/1998	0.046	jrs	365 43	SW 8082
PCB-1260	<0.046	mg/kg dw	10/20/1998	0.046	jrs	365 43	SW 8082
Decachlorobiphenyl (Surr)	88.0	t	10/20/1998	NA	jrs	365 43	SW 8082
2,4,5,6-TCDF (Surr)	85.0	t	10/20/1998	NA	jrs	365 43	SW 8082



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 497004  
NET Job No.: 98.13083

Sample Description: B-32  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 15:45  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.33	units	10/14/1998	0.10	nwg	169	SW 9045B
Solids, Total	87.3	%	10/20/1998	0.1	efw	2490	SM 2540
Arsenic, GFAA	5.0	mg/kg dw	10/22/1998	0.57	mhp	221 658	SW 7060
Barium, ICP	50	mg/kg dw	10/22/1998	1.1	kdw	1145 2148	SW 6010B
Cadmium, ICP	<0.57	mg/kg dw	10/22/1998	0.57	kdw	1145 2135	SW 6010B
Chromium, ICP	17	mg/kg dw	10/22/1998	2.3	kdw	1145 2121	SW 6010B
Lead, ICP	17	mg/kg dw	10/22/1998	4.6	kdw	1145 2357	SW 6010B
Mercury, CVAA	<0.046	mg/kg dw	10/22/1998	0.046	sep	659 761	SW 7471A
Selenium, GFAA	<0.29	mg/kg dw	10/24/1998	0.29	mhp	221 545	SW 7740
Silver, AA	<2.3	mg/kg dw	10/21/1998	2.3	sep	479 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/20/1998	0.006	cut	51	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/20/1998	0.006	cut	51	SW 8260A
Toluene	<0.006	mg/kg dw	10/20/1998	0.006	cut	51	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/20/1998	0.006	cut	51	SW 8260A
Dibromofluoromethane (Surr)	87.0	%	10/20/1998	74-132	cut	51	SW 8260A
Toluene-d8 (Surr)	101.0	%	10/20/1998	90-134	cut	51	SW 8260A
4-Bromofluoromethane (Surr)	105.0	%	10/20/1998	64-131	cut	51	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C
<b>PNA COMPOUNDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.023	mg/kg dw	10/23/1998	0.023	keh	753 1806	SW 8310
Acenaphthylene	<0.023	mg/kg dw	10/23/1998	0.023	keh	753 1806	SW 8310
Anthracene	<0.046	mg/kg dw	10/23/1998	0.046	keh	753 1806	SW 8310
Benzo(a)anthracene	<0.0030	mg/kg dw	10/23/1998	0.0030	keh	753 1806	SW 8310
Benzo(b)fluoranthene	<0.0041	mg/kg dw	10/23/1998	0.0041	keh	753 1806	SW 8310





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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 497003

NET Job No.: 98.13083

Sample Description: B-31  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 15:20  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
Benzo(k)fluoranthene	<0.020	MX	10/21/1998	0.0036	keh	753 1803	SW 8310
Benzo(a)pyrene	<0.0049		10/21/1998	0.0049	keh	753 1803	SW 8310
Benzo(ghi)perylene	<0.042		10/21/1998	0.042	keh	753 1803	SW 8310
Chrysene	<0.03		10/21/1998	0.03	keh	753 1803	SW 8310
Dibenzo(a,h)anthracene	<0.006		10/21/1998	0.006	keh	753 1803	SW 8310
Fluoranthene	<0.021		10/21/1998	0.021	keh	753 1803	SW 8310
Fluorene	<0.021		10/21/1998	0.021	keh	753 1803	SW 8310
Indeno(1,2,3-cd)pyrene	0.017		10/21/1998	0.0091	keh	753 1803	SW 8310
Naphthalene	<0.026		10/21/1998	0.026	keh	753 1803	SW 8310
Phenanthrene	<0.042		10/21/1998	0.042	keh	753 1803	SW 8310
Pyrene	<0.021		10/21/1998	0.021	keh	753 1803	SW 8310
Surr: p-Terphenyl	82.0	†	10/21/1998	43-125	keh	753 1803	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wma	365	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.042	mg/kg dw	10/20/1998	0.042	jrs	365 43	SW 8082
PCB-1221	<0.042	mg/kg dw	10/20/1998	0.042	jrs	365 43	SW 8082
PCB-1232	<0.042	mg/kg dw	10/20/1998	0.042	jrs	365 43	SW 8082
PCB-1242	<0.042	mg/kg dw	10/20/1998	0.042	jrs	365 43	SW 8082
PCB-1248	<0.042	mg/kg dw	10/20/1998	0.042	jrs	365 43	SW 8082
PCB-1254	<0.042	mg/kg dw	10/20/1998	0.042	jrs	365 43	SW 8082
PCB-1260	<0.042	mg/kg dw	10/20/1998	0.042	jrs	365 43	SW 8082
Decachlorobiphenyl (Surr)	84.0	†	10/20/1998	NA	jrs	365 43	SW 8082
2,4,5,6-TCDF (Surr)	82.0	†	10/20/1998	NA	jrs	365 43	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 497003  
NET Job No. : 98.13083

Sample Description: B-31  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 15:20  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.84	units	10/14/1998	0.10	mvg	169	SW 9045B
Solids, Total	94.6	g	10/20/1998	0.1	efw	2490	SM 2540
Arsenic, GFAA	4.0	mg/kg dw	10/22/1998	0.53	mhp	221 658	SW 7060
Barium, ICP	61	mg/kg dw	10/22/1998	1.1	kdw	1145 2148	SW 6010B
Cadmium, ICP	<0.53	mg/kg dw	10/22/1998	0.53	kdw	1145 2135	SW 6010B
Chromium, ICP	12	mg/kg dw	10/22/1998	2.1	kdw	1145 2121	SW 6010B
Lead, ICP	16	mg/kg dw	10/22/1998	4.2	kdw	1145 2357	SW 6010B
Mercury, CVAA	<0.042	mg/kg dw	10/22/1998	0.042	sep	659 761	SW 7471A
Selenium, GFAA	<0.26	mg/kg dw	10/24/1998	0.26	mhp	221 545	SW 7740
Silver, AA	<2.1	mg/kg dw	10/21/1998	2.1	sep	479 564	SW 7760

UST VOLATILES NON-AQUEOUS

Benzene	<0.005	mg/kg dw	10/20/1998	0.005	out	51	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/20/1998	0.005	out	51	SW 8260A
Toluene	<0.005	mg/kg dw	10/20/1998	0.005	out	51	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/20/1998	0.005	out	51	SW 8260A
Dibromofluoromethane (Surr)	91.0	g	10/20/1998	74-132	out	51	SW 8260A
Toluene-d8 (Surr)	96.0	g	10/20/1998	90-134	out	51	SW 8260A
4-Bromofluoromethane (Surr)	111.0	g	10/20/1998	64-131	out	51	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/17/1998		mvg	753	SW 3540C
PNA CMPS - 8310 NONAQUEOUS							
Acenaphthene	<0.021	mg/kg dw	10/21/1998	0.021	keh	753 1803	SW 8310
Acenaphthylene	<0.021	mg/kg dw	10/22/1998	0.021	keh	753 1804	SW 8310
Anthracene	<0.042	mg/kg dw	10/22/1998	0.042	keh	753 1804	SW 8310
Benzo(a)anthracene	0.021	mg/kg dw	10/21/1998	0.0027	keh	753 1803	SW 8310
Benzo(b)fluoranthene	0.018	mg/kg dw	10/21/1998	0.0038	keh	753 1803	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 497002  
NET Job No.: 98.13083

Sample Description: B-30  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 14:45  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	0.010	mg/kg dw	10/21/1998	0.0039	keh	753 1803	SW 8310
Benzo(a)pyrene	<0.012	MX mg/kg dw	10/21/1998	0.0052	keh	753 1803	SW 8310
Benzo(ghi)perylene	<0.045	mg/kg dw	10/21/1998	0.045	keh	753 1803	SW 8310
Chrysene	<0.03	mg/kg dw	10/21/1998	0.03	keh	753 1803	SW 8310
Dibenzo(a,h)anthracene	<0.007	mg/kg dw	10/21/1998	0.007	keh	753 1803	SW 8310
Fluoranthene	<0.023	mg/kg dw	10/21/1998	0.023	keh	753 1803	SW 8310
Fluorene	<0.023	mg/kg dw	10/21/1998	0.023	keh	753 1803	SW 8310
Indeno(1,2,3-cd)pyrene	<0.0098	mg/kg dw	10/21/1998	0.0098	keh	753 1803	SW 8310
Naphthalene	<0.028	mg/kg dw	10/21/1998	0.028	keh	753 1803	SW 8310
Phenanthrene	<0.045	mg/kg dw	10/21/1998	0.045	keh	753 1803	SW 8310
Pyrene	<0.023	mg/kg dw	10/21/1998	0.023	keh	753 1803	SW 8310
Surr: p-Terphenyl	84.0	t	10/21/1998	43-125	keh	753 1803	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	365	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	10/20/1998	0.045	jra	365 43	SW 8082
PCB-1221	<0.045	mg/kg dw	10/20/1998	0.045	jra	365 43	SW 8082
PCB-1232	<0.045	mg/kg dw	10/20/1998	0.045	jra	365 43	SW 8082
PCB-1242	<0.045	mg/kg dw	10/20/1998	0.045	jra	365 43	SW 8082
PCB-1248	<0.045	mg/kg dw	10/20/1998	0.045	jra	365 43	SW 8082
PCB-1254	<0.045	mg/kg dw	10/20/1998	0.045	jra	365 43	SW 8082
PCB-1260	<0.045	mg/kg dw	10/20/1998	0.045	jra	365 43	SW 8082
Decachlorobiphenyl (Surr)	91.0	t	10/20/1998	NA	jra	365 43	SW 8082
2,4,5,6-TCDF (Surr)	84.0	t	10/20/1998	NA	jra	365 43	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 497002  
NET Job No.: 98.13083

Sample Description: B-30  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 14:45  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.98	units	10/14/1998	0.10	nwg	169	SW 9045B
Solids, Total	88.2	†	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	36	mg/kg dw	10/22/1998	0.57	mhp	221 658	SW 7060
Barium, ICP	76	mg/kg dw	10/22/1998	1.1	kdw	1145 2148	SW 6010B
Cadmium, ICP	1.1	mg/kg dw	10/22/1998	0.57	kdw	1145 2135	SW 6010B
Chromium, ICP	12	mg/kg dw	10/22/1998	2.3	kdw	1145 2121	SW 6010B
Lead, ICP	136	mg/kg dw	10/22/1998	4.5	kdw	1145 2357	SW 6010B
Mercury, CVAA	<0.045	mg/kg dw	10/22/1998	0.045	sep	659 761	SW 7471A
Selenium, GFAA	<0.28	mg/kg dw	10/24/1998	0.28	mhp	221 545	SW 7740
Silver, AA	<2.3	mg/kg dw	10/21/1998	2.3	sep	479 564	SW 7760
<b>UST-VOLATILES-NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/20/1998	0.006	out	51	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/20/1998	0.006	out	51	SW 8260A
Toluene	<0.006	mg/kg dw	10/20/1998	0.006	out	51	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/20/1998	0.006	out	51	SW 8260A
Dibromofluoromethane (Surr)	89.0	†	10/20/1998	74-132	out	51	SW 8260A
Toluene-d8 (Surr)	96.0	†	10/20/1998	90-134	out	51	SW 8260A
4-Bromofluoromethane (Surr)	106.0	†	10/20/1998	64-131	out	51	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS PNA CPD'S - 8310 NONAQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C
Acenaphthene	<0.023	mg/kg dw	10/21/1998	0.023	keh	753 1803	SW 8310
Acenaphthylene	<0.023	mg/kg dw	10/22/1998	0.023	keh	753 1804	SW 8310
Anthracene	<0.045	mg/kg dw	10/22/1998	0.045	keh	753 1804	SW 8310
Benzo(a)anthracene	0.026	mg/kg dw	10/21/1998	0.0029	keh	753 1803	SW 8310
Benzo(b)fluoranthene	0.011	mg/kg dw	10/21/1998	0.0041	keh	753 1803	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 497001  
NET Job No.: 98.13083

Sample Description: B-27  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 14:20  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	<0.46	mg/kg dw	10/21/1998	0.0047	keh	753 1803	SW 8310
Benzo (a) pyrene	<0.064	mg/kg dw	10/21/1998	0.0064	keh	753 1803	SW 8310
Benzo (ghi) perylene	<0.55	mg/kg dw	10/21/1998	0.055	keh	753 1803	SW 8310
Chrysene	<0.4	mg/kg dw	10/21/1998	0.04	keh	753 1803	SW 8310
Dibenzo (a, h) anthracene	<0.08	mg/kg dw	10/21/1998	0.008	keh	753 1803	SW 8310
Fluoranthene	<0.28	mg/kg dw	10/21/1998	0.028	keh	753 1803	SW 8310
Fluorene	<0.28	mg/kg dw	10/21/1998	0.028	keh	753 1803	SW 8310
Indeno (1, 2, 3-cd) pyrene	<0.12	mg/kg dw	10/21/1998	0.012	keh	753 1803	SW 8310
Naphthalene	<0.35	mg/kg dw	10/21/1998	0.035	keh	753 1803	SW 8310
Phenanthrene	<0.55	mg/kg dw	10/21/1998	0.055	keh	753 1803	SW 8310
Pyrene	0.29	mg/kg dw	10/21/1998	0.028	keh	753 1803	SW 8310
Surr: p-Terphenyl	Masked		10/21/1998	43-125	keh	753 1803	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	365	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.055	mg/kg dw	10/20/1998	0.055	jrs	365 43	SW 8082
PCB-1221	<0.055	mg/kg dw	10/20/1998	0.055	jrs	365 43	SW 8082
PCB-1232	<0.055	mg/kg dw	10/20/1998	0.055	jrs	365 43	SW 8082
PCB-1242	<0.055	mg/kg dw	10/20/1998	0.055	jrs	365 43	SW 8082
PCB-1248	<0.055	mg/kg dw	10/20/1998	0.055	jrs	365 43	SW 8082
PCB-1254	<0.055	mg/kg dw	10/20/1998	0.055	jrs	365 43	SW 8082
PCB-1260	<0.055	mg/kg dw	10/20/1998	0.055	jrs	365 43	SW 8082
Decachlorobiphenyl (Surr)	80.0	µ	10/20/1998	NA	jrs	365 43	SW 8082
2,4,5,6-TCDF (Surr)	81.0	µ	10/20/1998	NA	jrs	365 43	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 497001  
NET Job No.: 98.13083

Sample Description: B-27  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 14:20  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.61	units	10/14/1998	0.10	nvg	169	SW 9045B
Solids, Total	72.4	g	10/20/1998	0.1	efv	2488	SM 2540
Arsenic, GFAA	6.1	mg/kg dw	10/22/1998	0.69	mhp	221 658	SW 7060
Barium, ICP	61	mg/kg dw	10/22/1998	1.4	kdw	1145 2148	SW 6010B
Cadmium, ICP	<0.69	mg/kg dw	10/22/1998	0.69	kdw	1145 2135	SW 6010B
Chromium, ICP	9.8	mg/kg dw	10/22/1998	2.8	kdw	1145 2121	SW 6010B
Lead, ICP	16	mg/kg dw	10/22/1998	5.5	kdw	1145 2357	SW 6010B
Mercury, CVAA	<0.055	mg/kg dw	10/22/1998	0.055	sep	659 761	SW 7471A
Selenium, GFAA	<0.35	mg/kg dw	10/24/1998	0.35	mhp	221 545	SW 7740
Silver, AA	<2.8	mg/kg dw	10/21/1998	2.8	sep	479 564	SW 7760

**UST VOLATILES NON-AQUEOUS**

Benzene	<0.007	mg/kg dw	10/20/1998	0.007	out	51	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	10/20/1998	0.007	out	51	SW 8260A
Toluene	<0.007	mg/kg dw	10/20/1998	0.007	out	51	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	10/20/1998	0.007	out	51	SW 8260A
Dibromofluoromethane (Surr)	89.0	g	10/20/1998	74-132	out	51	SW 8260A
Toluene-d8 (Surr)	102.0	g	10/20/1998	90-134	out	51	SW 8260A
4-Bromofluoromethane (Surr)	114.0	g	10/20/1998	64-131	out	51	SW 8260A
Prep, 8310 FNAs NON-AQUEOUS	extracted		10/17/1998		nvg	753	SW 3540C
FNAs COMPOUNDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.28	mg/kg dw	10/21/1998	0.028	keh	753 1803	SW 8310
Acenaphthylene	<0.28	mg/kg dw	10/22/1998	0.028	keh	753 1804	SW 8310
Anthracene	<0.55	mg/kg dw	10/22/1998	0.055	keh	753 1804	SW 8310
Benzo(a)anthracene	<1.3	mg/kg dw	10/21/1998	0.0036	keh	753 1803	SW 8310
Benzo(b)fluoranthene	<0.33	mg/kg dw	10/21/1998	0.0050	keh	753 1803	SW 8310

ELV : Elevated reporting limits due to matrix interference.



**NATIONAL  
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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 497000

NET Job No.: 98.13083

Sample Description: B-26  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 13:30  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	<0.0043	ng/kg dw	10/21/1998	0.0043	keh	753 1803	SW 8310
Benzo(a)pyrene	<0.0058	ng/kg dw	10/21/1998	0.0058	keh	753 1803	SW 8310
Benzo(ghi)perylene	<0.050	ng/kg dw	10/21/1998	0.050	keh	753 1803	SW 8310
Chrysene	<0.04	ng/kg dw	10/21/1998	0.04	keh	753 1803	SW 8310
Dibenzo(a,h)anthracene	<0.008	ng/kg dw	10/21/1998	0.008	keh	753 1803	SW 8310
Fluoranthene	<0.025	ng/kg dw	10/21/1998	0.025	keh	753 1803	SW 8310
Fluorene	<0.025	ng/kg dw	10/21/1998	0.025	keh	753 1803	SW 8310
Indeno(1,2,3-cd)pyrene	<0.011	ng/kg dw	10/21/1998	0.011	keh	753 1803	SW 8310
Naphthalene	<0.031	ng/kg dw	10/21/1998	0.031	keh	753 1803	SW 8310
Phenanthrene	<0.050	ng/kg dw	10/21/1998	0.050	keh	753 1803	SW 8310
Pyrene	<0.025	ng/kg dw	10/21/1998	0.025	keh	753 1803	SW 8310
Surr: p-Terphenyl	75.0	†	10/21/1998	43-125	keh	753 1803	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wma	365	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.050	ng/kg dw	10/20/1998	0.050	jrs	365 43	SW 8082
PCB-1221	<0.050	ng/kg dw	10/20/1998	0.050	jrs	365 43	SW 8082
PCB-1232	<0.050	ng/kg dw	10/20/1998	0.050	jrs	365 43	SW 8082
PCB-1242	<0.050	ng/kg dw	10/20/1998	0.050	jrs	365 43	SW 8082
PCB-1248	<0.050	ng/kg dw	10/20/1998	0.050	jrs	365 43	SW 8082
PCB-1254	<0.050	ng/kg dw	10/20/1998	0.050	jrs	365 43	SW 8082
PCB-1260	<0.050	ng/kg dw	10/20/1998	0.050	jrs	365 43	SW 8082
Decachlorobiphenyl (Surr)	91.0	†	10/20/1998	NA	jrs	365 43	SW 8082
2,4,5,6-TCDF (Surr)	84.0	†	10/20/1998	NA	jrs	365 43	SW 8082







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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 497000

NET Job No.: 98.13083

Sample Description: B-26  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 13:30  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.92	units	10/14/1998	0.10	nwg	169	SW 9045B
Solids, Total	79.5	†	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	16	mg/kg dw	10/22/1998	0.63	mhp	220 658	SW 7060
Barium, ICP	70	mg/kg dw	10/22/1998	1.3	kdw	1145 2148	SW 6010B
Cadmium, ICP	<0.63	mg/kg dw	10/22/1998	0.63	kdw	1145 2135	SW 6010B
Chromium, ICP	15	mg/kg dw	10/22/1998	2.5	kdw	1145 2121	SW 6010B
Lead, ICP	20	mg/kg dw	10/22/1998	5.0	kdw	1145 2357	SW 6010B
Mercury, CVAA	<0.050	mg/kg dw	10/22/1998	0.050	sep	659 761	SW 7471A
Selenium, GFAA	<0.31	mg/kg dw	10/23/1998	0.31	mhp	220 544	SW 7740
Silver, AA	<2.5	mg/kg dw	10/21/1998	2.5	sep	479 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/21/1998	0.006	out	52	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/21/1998	0.006	out	52	SW 8260A
Toluene	<0.006	mg/kg dw	10/21/1998	0.006	out	52	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/21/1998	0.006	out	52	SW 8260A
Dibromofluoromethane (Surr)	95.0	†	10/21/1998	74-132	out	52	SW 8260A
Toluene-d8 (Surr)	100.0	†	10/21/1998	90-134	out	52	SW 8260A
4-Bromofluoromethane (Surr)	108.0	†	10/21/1998	64-131	out	52	SW 8260A
Prep. 8310 PNA's NON-AQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C
<b>PNA COMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.025	mg/kg dw	10/21/1998	0.025	keh	753 1803	SW 8310
Acenaphthylene	<0.025	mg/kg dw	10/22/1998	0.025	keh	753 1804	SW 8310
Anthracene	<0.050	mg/kg dw	10/22/1998	0.050	keh	753 1804	SW 8310
Benzo(a)anthracene	<0.0033	mg/kg dw	10/21/1998	0.0033	keh	753 1803	SW 8310
Benzo(b)fluoranthene	<0.0045	mg/kg dw	10/21/1998	0.0045	keh	753 1803	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR.  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496999

NET Job No. : 98.13083

Sample Description: B-25  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 13:00  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	<0.013	MX	10/21/1998	0.0040	keh	753 1803	SW 8310
Benzo(a)pyrene	<0.0055		10/21/1998	0.0055	keh	753 1803	SW 8310
Benzo(ghi)perylene	<0.048		10/21/1998	0.048	keh	753 1803	SW 8310
Chrysene	<0.04		10/22/1998	0.04	keh	753 1804	SW 8310
Dibenzo(a,h)anthracene	<0.007		10/21/1998	0.007	keh	753 1803	SW 8310
Fluoranthene	<0.024		10/21/1998	0.024	keh	753 1803	SW 8310
Fluorene	<0.024		10/21/1998	0.024	keh	753 1803	SW 8310
Indeno(1,2,3-cd)pyrene	<0.030	MX	10/21/1998	0.010	keh	753 1803	SW 8310
Naphthalene	<0.030		10/21/1998	0.030	keh	753 1803	SW 8310
Phenanthrene	<0.048		10/21/1998	0.048	keh	753 1803	SW 8310
Pyrene	<0.024		10/21/1998	0.024	keh	753 1803	SW 8310
Surr: p-Terphenyl	Masked		10/21/1998	43-125	keh	753 1803	SW 8310

PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	365	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.048	mg/kg dw	10/20/1998	0.048	jrs	365 43	SW 8082
PCB-1221	<0.048	mg/kg dw	10/20/1998	0.048	jrs	365 43	SW 8082
PCB-1232	<0.048	mg/kg dw	10/20/1998	0.048	jrs	365 43	SW 8082
PCB-1242	<0.048	mg/kg dw	10/20/1998	0.048	jrs	365 43	SW 8082
PCB-1248	<0.048	mg/kg dw	10/20/1998	0.048	jrs	365 43	SW 8082
PCB-1254	<0.048	mg/kg dw	10/20/1998	0.048	jrs	365 43	SW 8082
PCB-1260	<0.048	mg/kg dw	10/20/1998	0.048	jrs	365 43	SW 8082
Decachlorobiphenyl (Surr)	83.0	t	10/20/1998	NA	jrs	365 43	SW 8082
2,4,5,6-TCMX (Surr)	83.0	t	10/20/1998	NA	jrs	365 43	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496999  
NET Job No.: 98.13083

Sample Description: B-25  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 13:00  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method	
pH, Non-Aqueous	8.45	units	10/14/1998	0.10	nwg	169	SW 9045B	
Solids, Total	84.1	¢	10/20/1998	0.1	efw	2488	SM 2540	
Arsenic, GFAA	7.0	mg/kg dw	10/22/1998	0.59	mhp	220 658	SW 7060	
Barium, ICP	178	mg/kg dw	10/22/1998	1.2	kdw	1143 2148	SW 6010B	
Cadmium, ICP	1.0	mg/kg dw	10/19/1998	0.59	jct	1143 2127	SW 6010B	
Chromium, ICP	67	mg/kg dw	10/19/1998	2.4	jct	1143 2113	SW 6010B	
Lead, ICP	33	mg/kg dw	10/19/1998	4.8	jct	1143 2349	SW 6010B	
Mercury, CVAA	<0.048	mg/kg dw	10/22/1998	0.048	sep	659 761	SW 7472A	
Selenium, GFAA	0.49	mg/kg dw	10/23/1998	0.30	mhp	220 546	SW 7740	
Silver, AA	<2.4	mg/kg dw	10/21/1998	2.4	sep	479 564	SW 7760	
<b>UST VOLATILES NON-AQUEOUS</b>								
Benzene	<0.006	mg/kg dw	10/20/1998	0.006	out	51	SW 8260A	
Ethylbenzene	<0.006	mg/kg dw	10/20/1998	0.006	out	51	SW 8260A	
Toluene	<0.006	mg/kg dw	10/20/1998	0.006	out	51	SW 8260A	
Xylenes, Total	<0.006	mg/kg dw	10/20/1998	0.006	out	51	SW 8260A	
Dibromofluoromethane (Surr)	89.0	¢	10/20/1998	74-132	out	51	SW 8260A	
Toluene-d8 (Surr)	99.0	¢	10/20/1998	90-134	out	51	SW 8260A	
4-Bromofluoromethane (Surr)	116.0	¢	10/20/1998	64-131	out	51	SW 8260A	
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C	
<b>PNA COMPS - 8310 NONAQUEOUS</b>								
Acenaphthene	<0.024	mg/kg dw	10/21/1998	0.024	keh	753 1803	SW 8310	
Acenaphthylene	<0.024	mg/kg dw	10/22/1998	0.024	keh	753 1804	SW 8310	
Anthracene	<0.048	mg/kg dw	10/22/1998	0.048	keh	753 1804	SW 8310	
Benzo(a)anthracene	<0.062	MX	mg/kg dw	10/21/1998	0.0031	keh	753 1803	SW 8310
Benzo(b)fluoranthene	<0.011	MX	mg/kg dw	10/21/1998	0.0043	keh	753 1803	SW 8310

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496998  
NET Job No.: 98.13083

Sample Description: B-23  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 11:15  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	0.33	mg/kg dw	10/20/1998	0.0037	keh	753 1803	SW 8310
Benzo(a)pyrene	0.61	mg/kg dw	10/20/1998	0.0050	keh	753 1803	SW 8310
Benzo(ghi)perylene	<0.87	mg/kg dw	10/20/1998	0.043	keh	753 1803	SW 8310
Chrysene	0.75	mg/kg dw	10/20/1998	0.03	keh	753 1803	SW 8310
Dibenzo(a,h)anthracene	<0.1	mg/kg dw	10/20/1998	0.007	keh	753 1803	SW 8310
Fluoranthene	3.0	mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Fluorene	<0.43	mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Indeno(1,2,3-cd)pyrene	0.30	mg/kg dw	10/20/1998	0.0093	keh	753 1803	SW 8310
Naphthalene	1.2	mg/kg dw	10/20/1998	0.027	keh	753 1803	SW 8310
Phenanthrene	2.5	mg/kg dw	10/20/1998	0.043	keh	753 1803	SW 8310
Pyrene	1.3	mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Surr: p-Terphenyl	Diluted out		10/20/1998	43-125	keh	753 1803	SW 8310

PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	365	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.043	mg/kg dw	10/20/1998	0.043	jrs	365 43	SW 8082
PCB-1221	<0.043	mg/kg dw	10/20/1998	0.043	jrs	365 43	SW 8082
PCB-1232	<0.043	mg/kg dw	10/20/1998	0.043	jrs	365 43	SW 8082
PCB-1242	<0.043	mg/kg dw	10/20/1998	0.043	jrs	365 43	SW 8082
PCB-1248	<0.043	mg/kg dw	10/20/1998	0.043	jrs	365 43	SW 8082
PCB-1254	<0.043	mg/kg dw	10/20/1998	0.043	jrs	365 43	SW 8082
PCB-1260	<0.043	mg/kg dw	10/20/1998	0.043	jrs	365 43	SW 8082
Decachlorobiphenyl (Surr)	75.0	t	10/20/1998	NA	jrs	365 43	SW 8082
2,4,5,6-TCMX (Surr)	75.0	t	10/20/1998	NA	jrs	365 43	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496998  
NET Job No.: 98.13083

Sample Description: B-23  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 11:15  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.10	units	10/14/1998	0.10	nwg	169	SW 9045B
Solids, Total	92.0	‡	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	177	mg/kg dw	10/22/1998	0.54	mhp	220 657	SW 7060
Barium, ICP	141	mg/kg dw	10/22/1998	1.1	kdv	1143 2148	SW 6010B
Cadmium, ICP	4.3	mg/kg dw	10/19/1998	0.54	jtc	1143 2127	SW 6010B
Chromium, ICP	15	mg/kg dw	10/19/1998	2.2	jtc	1143 2113	SW 6010B
Lead, ICP	60	mg/kg dw	10/19/1998	4.3	jtc	1143 2349	SW 6010B
Mercury, CVAA	0.072	mg/kg dw	10/22/1998	0.043	sep	659 761	SW 7471A
Selenium, GFAA	0.34	mg/kg dw	10/23/1998	0.27	mhp	220 546	SW 7740
Silver, AA	<2.2	MS mg/kg dw	10/21/1998	2.2	sep	478 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/20/1998	0.005	out	50	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/20/1998	0.005	out	50	SW 8260A
Toluene	<0.005	mg/kg dw	10/20/1998	0.005	out	50	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/20/1998	0.005	out	50	SW 8260A
Dibromofluoromethane (Surr)	88.0	‡	10/20/1998	74-132	out	50	SW 8260A
Toluene-d8 (Surr)	104.0	‡	10/20/1998	90-134	out	50	SW 8260A
4-Bromofluoromethane (Surr)	110.0	‡	10/20/1998	64-131	out	50	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.43	mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Acenaphthylene	<0.43	mg/kg dw	10/22/1998	0.022	keh	753 1804	SW 8310
Anthracene	<0.87	mg/kg dw	10/22/1998	0.043	keh	753 1804	SW 8310
Benzo(a)anthracene	1.6	mg/kg dw	10/20/1998	0.0028	keh	753 1803	SW 8310
Benzo(b)fluoranthene	0.57	mg/kg dw	10/20/1998	0.0039	keh	753 1803	SW 8310

ELV : Elevated reporting limits due to matrix interference.  
MS recovery was outside the acceptance limits. The LCS was in control.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496997

NET Job No.: 98.13083

Sample Description: B-22  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 10:40  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	<0.0047	ng/kg dw	10/21/1998	0.0047	keh	753 1803	SW 8310
Benzo(a)pyrene	<0.0064	ng/kg dw	10/21/1998	0.0064	keh	753 1803	SW 8310
Benzo(ghi)perylene	<0.055	ng/kg dw	10/21/1998	0.055	keh	753 1803	SW 8310
Chrysene	<0.04	ng/kg dw	10/21/1998	0.04	keh	753 1804	SW 8310
Dibenzo(a,h)anthracene	<0.008	ng/kg dw	10/21/1998	0.008	keh	753 1803	SW 8310
Fluoranthene	<0.028	ng/kg dw	10/21/1998	0.028	keh	753 1803	SW 8310
Fluorene	<0.028	ng/kg dw	10/21/1998	0.028	keh	753 1803	SW 8310
Indeno(1,2,3-cd)pyrene	<0.012	ng/kg dw	10/21/1998	0.012	keh	753 1803	SW 8310
Naphthalene	<0.035	ng/kg dw	10/21/1998	0.035	keh	753 1803	SW 8310
Phenanthrene	<0.055	ng/kg dw	10/21/1998	0.055	keh	753 1803	SW 8310
Pyrene	<0.028	ng/kg dw	10/21/1998	0.028	keh	753 1803	SW 8310
Surr: p-Terphenyl	75.4	t	10/21/1998	43-125	keh	753 1803	SW 8310

PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	365	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.055	ng/kg dw	10/20/1998	0.055	jrs	365 43	SW 8082
PCB-1221	<0.055	ng/kg dw	10/20/1998	0.055	jrs	365 43	SW 8082
PCB-1232	<0.055	ng/kg dw	10/20/1998	0.055	jrs	365 43	SW 8082
PCB-1242	<0.055	ng/kg dw	10/20/1998	0.055	jrs	365 43	SW 8082
PCB-1248	<0.055	ng/kg dw	10/20/1998	0.055	jrs	365 43	SW 8082
PCB-1254	<0.055	ng/kg dw	10/20/1998	0.055	jrs	365 43	SW 8082
PCB-1260	<0.055	ng/kg dw	10/20/1998	0.055	jrs	365 43	SW 8082
Decachlorobiphenyl (Surr)	86.0	t	10/20/1998	NA	jrs	365 43	SW 8082
2,4,5,6-TCDF (Surr)	86.0	t	10/20/1998	NA	jrs	365 43	SW 8082



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496997

NET Job No.: 98.13083

Sample Description: B-22  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 10:40  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.21	units	10/14/1998	0.10	nwg	169	SW 9045B
Solids, Total	72.4	%	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	11	mg/kg dw	10/22/1998	0.69	mhp	220 657	SW 7060
Barium, ICP	110	mg/kg dw	10/22/1998	1.4	kdw	1143 2148	SW 6010B
Cadmium, ICP	<0.69	mg/kg dw	10/19/1998	0.69	jtt	1143 2127	SW 6010B
Chromium, ICP	18	mg/kg dw	10/19/1998	2.8	jtt	1143 2113	SW 6010B
Lead, ICP	25	mg/kg dw	10/19/1998	5.5	jtt	1143 2349	SW 6010B
Mercury, CVAA	<0.055	mg/kg dw	10/22/1998	0.055	sep	659 761	SW 7471A
Selenium, GPAA	<0.35	mg/kg dw	10/23/1998	0.35	mhp	220 546	SW 7740
Silver, AA	<2.8	mg/kg dw	10/21/1998	2.8	sep	478 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.007	mg/kg dw	10/20/1998	0.007	out	50	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	10/20/1998	0.007	out	50	SW 8260A
Toluene	<0.007	mg/kg dw	10/20/1998	0.007	out	50	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	10/20/1998	0.007	out	50	SW 8260A
Dibromofluoromethane (Surr)	90.0	%	10/20/1998	74-132	out	50	SW 8260A
Toluene-d8 (Surr)	96.0	%	10/20/1998	90-134	out	50	SW 8260A
4-Bromofluoromethane (Surr)	104.0	%	10/20/1998	64-131	out	50	SW 8260A
Prep. 8310 PNAAs NON-AQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C
<b>PRA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.028	mg/kg dw	10/21/1998	0.028	keh	753 1803	SW 8310
Acenaphthylene	<0.028	mg/kg dw	10/21/1998	0.028	keh	753 1804	SW 8310
Anthracene	<0.055	mg/kg dw	10/21/1998	0.055	keh	753 1804	SW 8310
Benzo(a)anthracene	<0.0036	mg/kg dw	10/21/1998	0.0036	keh	753 1803	SW 8310
Benzo(b)fluoranthene	<0.0050	mg/kg dw	10/21/1998	0.0050	keh	753 1803	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496996  
NET Job No. : 98.13083

Sample Description: B-21  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 10:20  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	<0.45	mg/kg dw	10/20/1998	0.0038	keh	753 1803	SW 8310
Benzo(a)pyrene	<0.15	mg/kg dw	10/20/1998	0.0052	keh	753 1803	SW 8310
Benzo(ghi)perylene	<0.90	mg/kg dw	10/20/1998	0.045	keh	753 1803	SW 8310
Chrysene	<0.7	mg/kg dw	10/20/1998	0.03	keh	753 1803	SW 8310
Dibenzo(a,h)anthracene	<0.1	mg/kg dw	10/20/1998	0.007	keh	753 1803	SW 8310
Fluoranthene	<0.45	mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Fluorene	<0.45	mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Indeno(1,2,3-cd)pyrene	<0.19	mg/kg dw	10/20/1998	0.0097	keh	753 1803	SW 8310
Naphthalene	<0.56	mg/kg dw	10/20/1998	0.028	keh	753 1803	SW 8310
Phenanthrene	<0.90	mg/kg dw	10/20/1998	0.045	keh	753 1803	SW 8310
Pyrene	0.54	mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Surr: p-Terphenyl	Diluted out		10/20/1998	43-125	keh	753 1803	SW 8310

PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1221	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1232	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1242	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1248	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1254	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1260	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
Decachlorobiphenyl (Surr)	97.0	t	10/19/1998	NA	jrs	364 38	SW 8082
2,4,5,6-TCDF (Surr)	89.0	t	10/19/1998	NA	jrs	364 38	SW 8082





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496996  
NET Job No.: 98.13083

Sample Description: B-21  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 10:20  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.42	units	10/14/1998	0.10	nwg	168	SW 9045B
Solids, Total	89.0	%	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	25	ng/kg dw	10/22/1998	0.56	nbp	220 657	SW 7060
Barium, ICP	854	ng/kg dw	10/22/1998	1.1	kdw	1143 2148	SW 6010B
Cadmium, ICP	0.65	ng/kg dw	10/19/1998	0.56	jtt	1143 2127	SW 6010B
Chromium, ICP	15	ng/kg dw	10/19/1998	2.2	jtt	1143 2113	SW 6010B
Lead, ICP	44	ng/kg dw	10/19/1998	4.5	jtt	1143 2349	SW 6010B
Mercury, CVAA	0.066	ng/kg dw	10/23/1998	0.045	sep	660 764	SW 7471A
Selenium, GFAA	0.40	ng/kg dw	10/26/1998	0.28	nbp	220 547	SW 7740
Silver, AA	<2.2	ng/kg dw	10/21/1998	2.2	sep	478 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	ng/kg dw	10/20/1998	0.006	out	50	SW 8260A
Ethylbenzene	<0.006	ng/kg dw	10/20/1998	0.006	out	50	SW 8260A
Toluene	<0.006	ng/kg dw	10/20/1998	0.006	out	50	SW 8260A
Xylenes, Total	<0.006	ng/kg dw	10/20/1998	0.006	out	50	SW 8260A
Dibromofluoromethane (Surr)	90.0	%	10/20/1998	74-132	out	50	SW 8260A
Toluene-d8 (Surr)	105.0	%	10/20/1998	90-134	out	50	SW 8260A
4-Bromofluoromethane (Surr)	114.0	%	10/20/1998	64-131	out	50	SW 8260A
Prep, 8310 PNA NON-AQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C
PNA CPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.45	ng/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Acenaphthylene	<0.45	ng/kg dw	10/21/1998	0.022	keh	753 1804	SW 8310
Anthracene	<0.90	ng/kg dw	10/21/1998	0.045	keh	753 1804	SW 8310
Benzo(a)anthracene	<2.0	ng/kg dw	10/20/1998	0.0029	keh	753 1803	SW 8310
Benzo(b)fluoranthene	<0.36	ng/kg dw	10/20/1998	0.0040	keh	753 1803	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496995  
NET Job No.: 98.13083

Sample Description: B-19  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 09:50  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	0.26	mg/kg dw	10/20/1998	0.0038	keh	753 1803	SW 8310
Benzo(a)pyrene	0.25	mg/kg dw	10/20/1998	0.0052	keh	753 1803	SW 8310
Benzo(ghi)perylene	<0.45	mg/kg dw	10/20/1998	0.045	keh	753 1803	SW 8310
Chrysene	<0.3	mg/kg dw	10/20/1998	0.03	keh	753 1803	SW 8310
Dibenzo(a,h)anthracene	<0.07	mg/kg dw	10/20/1998	0.007	keh	753 1803	SW 8310
Fluoranthene	<1.2	MX mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Fluorene	<0.22	mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Indeno(1,2,3-cd)pyrene	0.12	mg/kg dw	10/20/1998	0.0097	keh	753 1803	SW 8310
Naphthalene	0.64	mg/kg dw	10/20/1998	0.028	keh	753 1803	SW 8310
Phenanthrene	0.93	mg/kg dw	10/20/1998	0.045	keh	753 1803	SW 8310
Pyrene	0.54	mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Surr: p-Terphenyl	Masked		10/20/1998	43-125	keh	753 1803	SW 8310

PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	waa	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1221	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1232	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1242	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1248	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1254	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1260	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
Decachlorobiphenyl (Surr)	103.0	†	10/19/1998	NA	jrs	364 38	SW 8082
2,4,5,6-TCDF (Surr)	95.0	†	10/19/1998	NA	jrs	364 38	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496995  
NET Job No. : 98.13083

Sample Description: B-19  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 09:50  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.12	units	10/14/1998	0.10	nwg	168	SW 9045B
Solids, Total	89.1	¢	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	14	mg/kg dw	10/22/1998	0.56	mhp	220 657	SW 7060
Barium, ICP	135	mg/kg dw	10/22/1998	1.1	kdw	1143 2148	SW 6010B
Cadmium, ICP	1.5	mg/kg dw	10/19/1998	0.56	jtt	1143 2127	SW 6010B
Chromium, ICP	46	mg/kg dw	10/19/1998	2.2	jtt	1143 2113	SW 6010B
Lead, ICP	79	mg/kg dw	10/19/1998	4.5	jtt	1143 2349	SW 6010B
Mercury, CVAA	0.46	mg/kg dw	10/23/1998	0.045	sep	660 764	SW 7471A
Selenium, GFAA	0.67	mg/kg dw	10/23/1998	0.28	mhp	220 546	SW 7740
Silver, AA	<2.2	mg/kg dw	10/21/1998	2.2	sep	478 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/20/1998	0.006	out	50	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/20/1998	0.006	out	50	SW 8260A
Toluene	<0.006	mg/kg dw	10/20/1998	0.006	out	50	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/20/1998	0.006	out	50	SW 8260A
Dibromofluoromethane (Surr)	87.0	¢	10/20/1998	74-132	out	50	SW 8260A
Toluene-d8 (Surr)	97.0	¢	10/20/1998	90-134	out	50	SW 8260A
4-Bromofluoromethane (Surr)	106.0	¢	10/20/1998	64-131	out	50	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.22	mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Acenaphthylene	<0.22	mg/kg dw	10/21/1998	0.022	keh	753 1804	SW 8310
Anthracene	<0.45	mg/kg dw	10/21/1998	0.045	keh	753 1804	SW 8310
Benzo(a)anthracene	0.86	mg/kg dw	10/20/1998	0.0029	keh	753 1803	SW 8310
Benzo(b)fluoranthene	0.18	mg/kg dw	10/20/1998	0.0040	keh	753 1803	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496994

NET Job No.: 98.13083

Sample Description: B-17  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 08:15  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k) fluoranthene	0.31	mg/kg dw	10/20/1998	0.0038	keh	753 1803	SW 8310
Benzo(a)pyrene	0.65	mg/kg dw	10/20/1998	0.0051	keh	753 1803	SW 8310
Benzo(ghi)perylene	0.53	mg/kg dw	10/20/1998	0.045	keh	753 1803	SW 8310
Chrysene	0.65	mg/kg dw	10/20/1998	0.03	keh	753 1803	SW 8310
Dibenzo(a,h)anthracene	0.10	mg/kg dw	10/20/1998	0.007	keh	753 1803	SW 8310
Fluoranthene	1.2	mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Fluorene	<0.09	mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Indeno(1,2,3-cd)pyrene	0.45	mg/kg dw	10/20/1998	0.0096	keh	753 1803	SW 8310
Naphthalene	<0.1	mg/kg dw	10/20/1998	0.028	keh	753 1803	SW 8310
Phenanthrene	0.33	mg/kg dw	10/20/1998	0.045	keh	753 1803	SW 8310
Pyrene	1.1	mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Surr: p-Terphenyl	Masked		10/20/1998	43-125	keh	753 1803	SW 8310

PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wms	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1221	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1232	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1242	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1248	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1254	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
PCB-1260	<0.045	mg/kg dw	10/19/1998	0.045	jrs	364 38	SW 8082
Decachlorobiphenyl (Surr)	99.0	†	10/19/1998	NA	jrs	364 38	SW 8082
2,4,5,6-TCMX (Surr)	86.0	†	10/19/1998	NA	jrs	364 38	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496994  
NET Job No.: 98.13083

Sample Description: B-17  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 08:15  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.49	units	10/14/1998	0.10	nwg	168	SW 9045B
Solids, Total	89.8	%	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	47	mg/kg dw	10/22/1998	0.56	mbp	220 657	SW 7060
Barium, ICP	55	mg/kg dw	10/22/1998	1.1	kdw	1143 2148	SW 6010B
Cadmium, ICP	1.1	mg/kg dw	10/19/1998	0.56	jtc	1143 2127	SW 6010B
Chromium, ICP	10	mg/kg dw	10/19/1998	2.2	jtc	1143 2113	SW 6010B
Lead, ICP	13	mg/kg dw	10/19/1998	4.5	jtc	1143 2349	SW 6010B
Mercury, CVAA	<0.045	mg/kg dw	10/23/1998	0.045	sep	660 764	SW 7471A
Selenium, GFAA	0.29	mg/kg dw	10/23/1998	0.28	mhp	220 546	SW 7740
Silver, AA	<2.2	mg/kg dw	10/21/1998	2.2	sep	478 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/20/1998	0.006	out	50	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/20/1998	0.006	out	50	SW 8260A
Toluene	<0.006	mg/kg dw	10/20/1998	0.006	out	50	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/20/1998	0.006	out	50	SW 8260A
Dibromofluoromethane (Surr)	96.0	%	10/20/1998	74-132	out	50	SW 8260A
Toluene-d8 (Surr)	110.0	%	10/20/1998	90-134	out	50	SW 8260A
4-Bromofluoromethane (Surr)	106.0	%	10/20/1998	64-131	out	50	SW 8260A
Prep. 8310 PNA NON-AQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C
PNA CMFDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.09	mg/kg dw	10/20/1998	0.022	keh	753 1803	SW 8310
Acenaphthylene	<0.089	mg/kg dw	10/21/1998	0.022	keh	753 1804	SW 8310
Anthracene	0.22	mg/kg dw	10/21/1998	0.045	keh	753 1804	SW 8310
Benzo(a)anthracene	0.80	mg/kg dw	10/20/1998	0.0029	keh	753 1803	SW 8310
Benzo(b)fluoranthene	0.76	mg/kg dw	10/20/1998	0.0040	keh	753 1803	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496993

NET Job No.: 98.13083

Sample Description: B-16  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 07:45  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	<0.0036	mg/kg dw	10/20/1998	0.0036	keh	752 1803	SW 8310
Benzo (a) pyrene	<0.0049	mg/kg dw	10/20/1998	0.0049	keh	752 1803	SW 8310
Benzo (ghi) perylene	<0.042	mg/kg dw	10/20/1998	0.042	keh	752 1803	SW 8310
Chrysene	<0.03	mg/kg dw	10/20/1998	0.03	keh	752 1803	SW 8310
Dibenzo (a, h) anthracene	<0.006	mg/kg dw	10/20/1998	0.006	keh	752 1803	SW 8310
Fluoranthene	<0.021	mg/kg dw	10/20/1998	0.021	keh	752 1803	SW 8310
Fluorene	<0.021	mg/kg dw	10/20/1998	0.021	keh	752 1803	SW 8310
Indeno (1, 2, 3-cd) pyrene	<0.0091	mg/kg dw	10/20/1998	0.0091	keh	752 1803	SW 8310
Naphthalene	<0.026	mg/kg dw	10/20/1998	0.026	keh	752 1803	SW 8310
Phenanthrene	<0.042	mg/kg dw	10/20/1998	0.042	keh	752 1803	SW 8310
Pyrene	<0.021	mg/kg dw	10/20/1998	0.021	keh	752 1803	SW 8310
Surr: p-Terphenyl	68.0	µ	10/20/1998	43-125	keh	752 1803	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.042	mg/kg dw	10/19/1998	0.042	jrs	364 39	SW 8082
PCB-1221	<0.042	mg/kg dw	10/19/1998	0.042	jrs	364 39	SW 8082
PCB-1232	<0.042	mg/kg dw	10/19/1998	0.042	jrs	364 39	SW 8082
PCB-1242	<0.042	mg/kg dw	10/19/1998	0.042	jrs	364 39	SW 8082
PCB-1248	<0.042	mg/kg dw	10/19/1998	0.042	jrs	364 39	SW 8082
PCB-1254	<0.042	mg/kg dw	10/19/1998	0.042	jrs	364 39	SW 8082
PCB-1260	<0.042	mg/kg dw	10/19/1998	0.042	jrs	364 39	SW 8082
Decachlorobiphenyl (Surr)	88.0	µ	10/19/1998	NA	jrs	364 39	SW 8082
2,4,5,6-TCMX (Surr)	85.0	µ	10/19/1998	NA	jrs	364 39	SW 8082



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496993

NET Job No.: 98.13083

Sample Description: B-16  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 07:45  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.21	units	10/14/1998	0.10	nwg	168	SW 9045B
Solids, Total	94.7	t	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	8.6	mg/kg dw	10/22/1998	0.53	mhp	220 657	SW 7060
Barium, ICP	33	mg/kg dw	10/22/1998	1.1	kdw	1143 2148	SW 6010B
Cadmium, ICP	<0.53	mg/kg dw	10/19/1998	0.53	jtt	1143 2127	SW 6010B
Chromium, ICP	8.2	mg/kg dw	10/19/1998	2.1	jtt	1143 2113	SW 6010B
Lead, ICP	14	mg/kg dw	10/19/1998	4.2	jtt	1143 2349	SW 6010B
Mercury, CVAA	<0.042	mg/kg dw	10/23/1998	0.042	sep	660 764	SW 7471A
Selenium, GFAA	<0.26	mg/kg dw	10/23/1998	0.26	mhp	220 546	SW 7740
Silver, AA	<2.1	mg/kg dw	10/21/1998	2.1	sep	478 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/20/1998	0.005	out	50	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/20/1998	0.005	out	50	SW 8260A
Toluene	<0.005	mg/kg dw	10/20/1998	0.005	out	50	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/20/1998	0.005	out	50	SW 8260A
Dibromofluoromethane (Surr)	86.0	t	10/20/1998	74-132	out	50	SW 8260A
Toluene-d8 (Surr)	102.0	t	10/20/1998	90-134	out	50	SW 8260A
4-Bromofluoromethane (Surr)	109.0	t	10/20/1998	64-131	out	50	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/16/1998		nwg	752	SW 3540C
<b>PNA CMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.021	mg/kg dw	10/20/1998	0.021	keh	752 1803	SW 8310
Acenaphthylene	<0.021	mg/kg dw	10/21/1998	0.021	keh	752 1804	SW 8310
Anthracene	<0.042	mg/kg dw	10/21/1998	0.042	keh	752 1804	SW 8310
Benzo(a)anthracene	<0.0027	mg/kg dw	10/20/1998	0.0027	keh	752 1803	SW 8310
Benzo(b)fluoranthene	<0.0038	mg/kg dw	10/20/1998	0.0038	keh	752 1803	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496992

NET Job No.: 98.13083

Sample Description: B-15  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 07:30  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	<0.0037	mg/kg dw	10/20/1998	0.0037	keh	752 1803	SW 8310
Benzo (a) pyrene	<0.0050	mg/kg dw	10/20/1998	0.0050	keh	752 1803	SW 8310
Benzo (ghi) perylene	<0.043	mg/kg dw	10/20/1998	0.043	keh	752 1803	SW 8310
Chrysene	<0.03	mg/kg dw	10/20/1998	0.03	keh	752 1803	SW 8310
Dibenzo (a, h) anthracene	<0.007	mg/kg dw	10/20/1998	0.007	keh	752 1803	SW 8310
Fluoranthene	<0.022	mg/kg dw	10/20/1998	0.022	keh	752 1803	SW 8310
Fluorene	<0.022	mg/kg dw	10/20/1998	0.022	keh	752 1803	SW 8310
Indeno (1, 2, 3-cd) pyrene	<0.0093	mg/kg dw	10/20/1998	0.0093	keh	752 1803	SW 8310
Naphthalene	<0.027	mg/kg dw	10/20/1998	0.027	keh	752 1803	SW 8310
Phenanthrene	<0.043	mg/kg dw	10/20/1998	0.043	keh	752 1803	SW 8310
Pyrene	<0.022	mg/kg dw	10/20/1998	0.022	keh	752 1803	SW 8310
Surr: p-Terphenyl	66.9	t	10/20/1998	43-125	keh	752 1803	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/15/1998	COMPLETE vna		368	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.043	mg/kg dw	10/19/1998	0.043	jrs	368 38	SW 8082
PCB-1221	<0.043	mg/kg dw	10/19/1998	0.043	jrs	368 38	SW 8082
PCB-1232	<0.043	mg/kg dw	10/19/1998	0.043	jrs	368 38	SW 8082
PCB-1242	<0.043	mg/kg dw	10/19/1998	0.043	jrs	368 38	SW 8082
PCB-1248	<0.043	mg/kg dw	10/19/1998	0.043	jrs	368 38	SW 8082
PCB-1254	<0.043	mg/kg dw	10/19/1998	0.043	jrs	368 38	SW 8082
PCB-1260	<0.043	mg/kg dw	10/19/1998	0.043	jrs	368 38	SW 8082
Decachlorobiphenyl (Surr)	118.0	t	10/19/1998	NA	jrs	368 38	SW 8082
2,4,5,6-TCMX (Surr)	108.0	t	10/19/1998	NA	jrs	368 38	SW 8082





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496992  
NET Job No.: 98.13083

Sample Description: B-15  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 07:30  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.29	units	10/14/1998	0.10	nwg	168	SW 9045B
Solids, Total	92.0	%	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	10	mg/kg dw	10/22/1998	0.54	mhp	220 657	SW 7060
Barium, ICP	33	mg/kg dw	10/22/1998	1.1	kdw	1146 2150	SW 6010B
Cadmium, ICP	<0.54	mg/kg dw	10/20/1998	0.54	kdw	1146 2130	SW 6010B
Chromium, ICP	7.5	mg/kg dw	10/20/1998	2.2	kdw	1146 2116	SW 6010B
Lead, ICP	11	mg/kg dw	10/20/1998	4.3	kdw	1146 2352	SW 6010B
Mercury, CVAA	<0.043	mg/kg dw	10/23/1998	0.043	sep	660 764	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	10/23/1998	0.27	mhp	220 546	SW 7740
Silver, AA	<2.2	mg/kg dw	10/21/1998	2.2	sep	478 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/19/1998	0.005	out	49	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/19/1998	0.005	out	49	SW 8260A
Toluene	<0.005	mg/kg dw	10/19/1998	0.005	out	49	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/19/1998	0.005	out	49	SW 8260A
Dibromofluoromethane (Surr)	88.0	%	10/19/1998	74-132	out	49	SW 8260A
Toluene-d8 (Surr)	96.0	%	10/19/1998	90-134	out	49	SW 8260A
4-Bromofluoromethane (Surr)	119.0	%	10/19/1998	64-131	out	49	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/16/1998		nwg	752	SW 3540C
<b>PNA CMFDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.022	mg/kg dw	10/20/1998	0.022	keh	752 1803	SW 8310
Acenaphthylene	<0.022	mg/kg dw	10/21/1998	0.022	keh	752 1804	SW 8310
Anthracene	<0.043	mg/kg dw	10/21/1998	0.043	keh	752 1804	SW 8310
Benzo(a)anthracene	<0.0028	mg/kg dw	10/20/1998	0.0028	keh	752 1803	SW 8310
Benzo(b)fluoranthene	<0.0039	mg/kg dw	10/20/1998	0.0039	keh	752 1803	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496991

NET Job No.: 98.13083

Sample Description: B-36  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 16:10  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k) fluoranthene	<0.051	MX	10/20/1998	0.0042	keh	752 1803	SW 8310
Benzo(a) pyrene	<0.024	MX	10/20/1998	0.0057	keh	752 1803	SW 8310
Benzo(ghi)perylene	<0.050		10/20/1998	0.050	keh	752 1803	SW 8310
Chrysene	<0.04		10/21/1998	0.04	keh	752 1804	SW 8310
Dibenzo(a,h)anthracene	<0.007		10/20/1998	0.007	keh	752 1803	SW 8310
Fluoranthene	<0.061	MX	10/20/1998	0.025	keh	752 1803	SW 8310
Fluorene	<0.025		10/20/1998	0.025	keh	752 1803	SW 8310
Indeno(1,2,3-cd)pyrene	<0.011		10/20/1998	0.011	keh	752 1803	SW 8310
Naphthalene	0.036		10/20/1998	0.031	keh	752 1803	SW 8310
Phenanthrene	0.076		10/20/1998	0.050	keh	752 1803	SW 8310
Pyrene	0.050		10/20/1998	0.025	keh	752 1803	SW 8310
Surr: p-Terphenyl	Masked		10/20/1998	43-125	keh	752 1803	SW 8310

PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wma	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.050		10/19/1998	0.050	jrs	364 39	SW 8082
PCB-1221	<0.050		10/19/1998	0.050	jrs	364 39	SW 8082
PCB-1232	<0.050		10/19/1998	0.050	jrs	364 39	SW 8082
PCB-1242	<0.050		10/19/1998	0.050	jrs	364 39	SW 8082
PCB-1248	<0.050		10/19/1998	0.050	jrs	364 39	SW 8082
PCB-1254	<0.050		10/19/1998	0.050	jrs	364 39	SW 8082
PCB-1260	<0.050		10/19/1998	0.050	jrs	364 39	SW 8082
Decachlorobiphenyl (Surr)	116.0	†	10/19/1998	NA	jrs	364 39	SW 8082
2,4,5,6-TCMX (Surr)	119.0	†	10/19/1998	NA	jrs	364 39	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496991  
NET Job No.: 98.13083

Sample Description: B-36  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 16:10  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.34	units	10/14/1998	0.10	nwg	168	SW 9045B
Solids, Total	80.2	†	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	12	mg/kg dw	10/22/1998	0.62	mhp	220 657	SW 7060
Barium, ICP	175	mg/kg dw	10/22/1998	1.2	kdw	1143 2148	SW 6010B
Cadmium, ICP	0.85	mg/kg dw	10/19/1998	0.62	jtc	1143 2127	SW 6010B
Chromium, ICP	66	mg/kg dw	10/19/1998	2.5	jtc	1143 2113	SW 6010B
Lead, ICP	26	mg/kg dw	10/19/1998	5.0	jtc	1143 2349	SW 6010B
Mercury, CVAA	0.079	mg/kg dw	10/22/1998	0.050	sep	659 761	SW 7471A
Selenium, GFAA	0.50	mg/kg dw	10/23/1998	0.31	mhp	220 546	SW 7740
Silver, AA	<2.5	mg/kg dw	10/21/1998	2.5	sep	478 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/19/1998	0.006	out	49	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/19/1998	0.006	out	49	SW 8260A
Toluene	<0.006	mg/kg dw	10/19/1998	0.006	out	49	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/19/1998	0.006	out	49	SW 8260A
Dibromofluoromethane (Surr)	90.0	†	10/19/1998	74-132	out	49	SW 8260A
Toluene-d8 (Surr)	96.0	†	10/19/1998	90-134	out	49	SW 8260A
4-Bromofluoromethane (Surr)	110.0	†	10/19/1998	64-131	out	49	SW 8260A
Prep. 8310 PNA <sub>s</sub> NON-AQUEOUS	extracted		10/16/1998		nwg	752	SW 3540C
<b>PNA CMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.025	mg/kg dw	10/20/1998	0.025	keh	752 1803	SW 8310
Acenaphthylene	<0.025	mg/kg dw	10/21/1998	0.025	keh	752 1804	SW 8310
Anthracene	<0.050	mg/kg dw	10/21/1998	0.050	keh	752 1804	SW 8310
Benzo(a)anthracene	0.062	mg/kg dw	10/20/1998	0.0032	keh	752 1803	SW 8310
Benzo(b)fluoranthene	<0.015	MX	10/20/1998	0.0045	keh	752 1803	SW 8310

MX : Dilution required due to sample matrix; analyte is not detected.



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496990

NET Job No.: 98.13083

Sample Description: B-35  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 11:15  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	0.013	mg/kg dw	10/21/1998	0.0037	keh	752 1801	SW 8310
Benzo (a) pyrene	0.025	mg/kg dw	10/21/1998	0.0050	keh	752 1801	SW 8310
Benzo (ghi) perylene	<0.044	mg/kg dw	10/21/1998	0.044	keh	752 1801	SW 8310
Chrysene	<0.03	mg/kg dw	10/21/1998	0.03	keh	752 1804	SW 8310
Dibenzo (a, h) anthracene	<0.007	mg/kg dw	10/21/1998	0.007	keh	752 1801	SW 8310
Fluoranthene	0.079	mg/kg dw	10/21/1998	0.022	keh	752 1801	SW 8310
Fluorene	<0.022	mg/kg dw	10/21/1998	0.022	keh	752 1801	SW 8310
Indeno (1, 2, 3-cd) pyrene	0.016	mg/kg dw	10/21/1998	0.0094	keh	752 1801	SW 8310
Naphthalene	<0.027	mg/kg dw	10/21/1998	0.027	keh	752 1801	SW 8310
Phenanthrene	0.054	mg/kg dw	10/21/1998	0.044	keh	752 1801	SW 8310
Pyrene	0.050	mg/kg dw	10/21/1998	0.022	keh	752 1801	SW 8310
Surr: p-Terphenyl	77.1	†	10/21/1998	43-125	keh	752 1801	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.044	mg/kg dw	10/19/1998	0.044	jrs	364 39	SW 8082
PCB-1221	<0.044	mg/kg dw	10/19/1998	0.044	jrs	364 39	SW 8082
PCB-1232	<0.044	mg/kg dw	10/19/1998	0.044	jrs	364 39	SW 8082
PCB-1242	<0.044	mg/kg dw	10/19/1998	0.044	jrs	364 39	SW 8082
PCB-1248	<0.044	mg/kg dw	10/19/1998	0.044	jrs	364 39	SW 8082
PCB-1254	<0.044	mg/kg dw	10/19/1998	0.044	jrs	364 39	SW 8082
PCB-1260	<0.044	mg/kg dw	10/19/1998	0.044	jrs	364 39	SW 8082
Decachlorobiphenyl (Surr)	89.0	†	10/19/1998	NA	jrs	364 39	SW 8082
2,4,5,6-TCMX (Surr)	89.0	†	10/19/1998	NA	jrs	364 39	SW 8082



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496990  
NET Job No.: 98.13083

Sample Description: B-35  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 11:15  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.92	units	10/14/1998	0.10	nwg	168	SW 9045B
Solids, Total	91.5	%	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	10	ng/kg dw	10/22/1998	0.55	mhp	218 657	SW 7060
Barium, ICP	39	ng/kg dw	10/22/1998	1.1	kdw	1143 2148	SW 6010B
Cadmium, ICP	<0.55	ng/kg dw	10/19/1998	0.55	jtt	1143 2127	SW 6010B
Chromium, ICP	9.3	ng/kg dw	10/19/1998	2.2	jtt	1143 2113	SW 6010B
Lead, ICP	14	ng/kg dw	10/19/1998	4.4	jtt	1143 2349	SW 6010B
Mercury, CVAA	<0.044	ng/kg dw	10/22/1998	0.044	sep	659 761	SW 7471A
Selenium, GFAA	<0.27	ng/kg dw	10/23/1998	0.27	mhp	218 546	SW 7740
Silver, AA	<2.2	ng/kg dw	10/21/1998	2.2	sep	478 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	ng/kg dw	10/19/1998	0.005	out	49	SW 8260A
Ethylbenzene	<0.005	ng/kg dw	10/19/1998	0.005	out	49	SW 8260A
Toluene	<0.005	ng/kg dw	10/19/1998	0.005	out	49	SW 8260A
Xylenes, Total	<0.005	ng/kg dw	10/19/1998	0.005	out	49	SW 8260A
Dibromofluoromethane (Surr)	89.0	%	10/19/1998	74-132	out	49	SW 8260A
Toluene-d8 (Surr)	96.0	%	10/19/1998	90-134	out	49	SW 8260A
4-Bromofluoromethane (Surr)	111.0	%	10/19/1998	64-131	out	49	SW 8260A
Prep, 8310 PNA <sub>s</sub> NON-AQUEOUS	extracted		10/16/1998		nwg	752	SW 3540C
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.022	ng/kg dw	10/21/1998	0.022	keh	752 1801	SW 8310
Acenaphthylene	<0.022	ng/kg dw	10/21/1998	0.022	keh	752 1801	SW 8310
Anthracene	<0.044	ng/kg dw	10/21/1998	0.044	keh	752 1801	SW 8310
Benzo(a)anthracene	0.028	ng/kg dw	10/21/1998	0.0028	keh	752 1801	SW 8310
Benzo(b)fluoranthene	0.022	ng/kg dw	10/21/1998	0.0039	keh	752 1801	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496989  
NET Job No.: 98.13083

Sample Description: B-18  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 13:15  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	0.079	mg/kg dw	10/20/1998	0.0037	keh	752 1800	SW 8310
Benzo (a) pyrene	0.093	mg/kg dw	10/20/1998	0.0050	keh	752 1800	SW 8310
Benzo (ghi) perylene	<0.2	mg/kg dw	10/20/1998	0.044	keh	752 1800	SW 8310
Chrysene	<0.16	mg/kg dw	10/20/1998	0.03	keh	752 1800	SW 8310
Dibenzo (a, h) anthracene	<0.03	mg/kg dw	10/20/1998	0.007	keh	752 1800	SW 8310
Fluoranthene	0.27	mg/kg dw	10/20/1998	0.022	keh	752 1800	SW 8310
Fluorene	<0.1	mg/kg dw	10/20/1998	0.022	keh	752 1800	SW 8310
Indeno (1, 2, 3-cd) pyrene	0.13	mg/kg dw	10/20/1998	0.0094	keh	752 1800	SW 8310
Naphthalene	<0.1	mg/kg dw	10/20/1998	0.027	keh	752 1800	SW 8310
Phenanthrene	<0.2	mg/kg dw	10/20/1998	0.044	keh	752 1800	SW 8310
Pyrene	0.24	mg/kg dw	10/20/1998	0.022	keh	752 1800	SW 8310
Surr: p-Terphenyl	Masked		10/20/1998	43-125	keh	752 1800	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.044	mg/kg dw	10/19/1998	0.044	jrs	364 39	SW 8082
PCB-1221	<0.044	mg/kg dw	10/19/1998	0.044	jrs	364 39	SW 8082
PCB-1232	<0.044	mg/kg dw	10/19/1998	0.044	jrs	364 39	SW 8082
PCB-1242	<0.044	mg/kg dw	10/19/1998	0.044	jrs	364 39	SW 8082
PCB-1248	<0.044	mg/kg dw	10/19/1998	0.044	jrs	364 39	SW 8082
PCB-1254	<0.044	mg/kg dw	10/19/1998	0.044	jrs	364 39	SW 8082
PCB-1260	<0.044	mg/kg dw	10/19/1998	0.044	jrs	364 39	SW 8082
Decachlorobiphenyl (Surr)	80.0	µ	10/19/1998	NA	jrs	364 39	SW 8082
2,4,5,6-TCDF (Surr)	84.0	µ	10/19/1998	NA	jrs	364 39	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496989  
NET Job No.: 98.13083

Sample Description: B-18  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 13:15  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.62	units	10/14/1998	0.10	nwg	168	SW 9045B
Solids, Total	91.4	t	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	24	mg/kg dw	10/22/1998	0.55	whp	218 657	SW 7060
Barium, ICP	89	mg/kg dw	10/22/1998	1.1	kdw	1143 2148	SW 6010B
Cadmium, ICP	1.3	mg/kg dw	10/19/1998	0.55	jtc	1143 2127	SW 6010B
Chromium, ICP	21	mg/kg dw	10/19/1998	2.2	jtc	1143 2113	SW 6010B
Lead, ICP	26	mg/kg dw	10/19/1998	4.4	jtc	1143 2349	SW 6010B
Mercury, CVAA	<0.044	mg/kg dw	10/23/1998	0.044	sep	659 764	SW 7471A
Selenium, GFAA	0.43	mg/kg dw	10/23/1998	0.27	whp	218 546	SW 7740
Silver, AA	<2.2	mg/kg dw	10/21/1998	2.2	sep	478 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/19/1998	0.005	out	49	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/19/1998	0.005	out	49	SW 8260A
Toluene	<0.005	mg/kg dw	10/19/1998	0.005	out	49	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/19/1998	0.005	out	49	SW 8260A
Dibromofluoromethane (Surr)	89.0	t	10/19/1998	74-132	out	49	SW 8260A
Toluene-d8 (Surr)	96.0	t	10/19/1998	90-134	out	49	SW 8260A
4-Bromofluoromethane (Surr)	105.0	t	10/19/1998	64-131	out	49	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/16/1998		nwg	752	SW 3540C
PNA CMPS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.1	mg/kg dw	10/20/1998	0.022	keh	752 1800	SW 8310
Acenaphthylene	<0.1	mg/kg dw	10/20/1998	0.022	keh	752 1800	SW 8310
Anthracene	<0.2	mg/kg dw	10/21/1998	0.044	keh	752 1801	SW 8310
Benzo(a)anthracene	0.13	mg/kg dw	10/20/1998	0.0028	keh	752 1800	SW 8310
Benzo(b)fluoranthene	0.19	mg/kg dw	10/20/1998	0.0039	keh	752 1800	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496988  
NET Job No.: 98.13083

Sample Description: B-14  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 16:40  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k) fluoranthene	<0.0050	mg/kg dw	10/20/1998	0.0050	keh	752 1800	SW 8310
Benzo(a) pyrene	<0.0067	mg/kg dw	10/20/1998	0.0067	keh	752 1800	SW 8310
Benzo(ghi) perylene	<0.059	mg/kg dw	10/20/1998	0.059	keh	752 1800	SW 8310
Chrysene	<0.04	mg/kg dw	10/21/1998	0.04	keh	752 1801	SW 8310
Dibenzo(a,h)anthracene	<0.009	mg/kg dw	10/20/1998	0.009	keh	752 1800	SW 8310
Fluoranthene	<0.029	mg/kg dw	10/20/1998	0.029	keh	752 1800	SW 8310
Fluorene	<0.029	mg/kg dw	10/20/1998	0.029	keh	752 1800	SW 8310
Indeno(1,2,3-cd)pyrene	<0.013	mg/kg dw	10/20/1998	0.013	keh	752 1800	SW 8310
Naphthalene	<0.037	mg/kg dw	10/20/1998	0.037	keh	752 1800	SW 8310
Phenanthrene	<0.059	mg/kg dw	10/20/1998	0.059	keh	752 1800	SW 8310
Pyrene	<0.029	mg/kg dw	10/20/1998	0.029	keh	752 1800	SW 8310
Surr: p-Terphenyl	58.5	t	10/20/1998	43-125	keh	752 1800	SW 8310

PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wra	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.059	mg/kg dw	10/19/1998	0.059	jrs	364 39	SW 8082
PCB-1221	<0.059	mg/kg dw	10/19/1998	0.059	jrs	364 39	SW 8082
PCB-1232	<0.059	mg/kg dw	10/19/1998	0.059	jrs	364 39	SW 8082
PCB-1242	<0.059	mg/kg dw	10/19/1998	0.059	jrs	364 39	SW 8082
PCB-1248	<0.059	mg/kg dw	10/19/1998	0.059	jrs	364 39	SW 8082
PCB-1254	<0.059	mg/kg dw	10/19/1998	0.059	jrs	364 39	SW 8082
PCB-1260	<0.059	mg/kg dw	10/19/1998	0.059	jrs	364 39	SW 8082
Decachlorobiphenyl (Surr)	89.0	t	10/19/1998	NA	jrs	364 39	SW 8082
2,4,5,6-TCMX (Surr)	86.0	t	10/19/1998	NA	jrs	364 39	SW 8082





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496988  
NET Job No.: 98.13083

Sample Description: B-14  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 16:40  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.52	units	10/14/1998	0.10	nwg	168	SW 9045B
Solids, Total	68.2	†	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	25	mg/kg dw	10/22/1998	0.73	mhp	218 657	SW 7060
Barium, ICP	130	mg/kg dw	10/22/1998	1.5	kdv	1142 2148	SW 6010B
Cadmium, ICP	1.8	mg/kg dw	10/19/1998	0.73	jtc	1142 2127	SW 6010B
Chromium, ICP	40	mg/kg dw	10/19/1998	2.9	jtc	1142 2113	SW 6010B
Lead, ICP	29	mg/kg dw	10/19/1998	5.9	jtc	1142 2349	SW 6010B
Mercury, CVAA	<0.059	mg/kg dw	10/23/1998	0.059	sep	659 764	SW 7471A
Selenium, GFAA	0.40	mg/kg dw	10/23/1998	0.37	mhp	218 546	SW 7740
Silver, AA	<2.9	mg/kg dw	10/21/1998	2.9	sep	477 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.007	mg/kg dw	10/19/1998	0.007	out	49	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	10/19/1998	0.007	out	49	SW 8260A
Toluene	<0.007	mg/kg dw	10/19/1998	0.007	out	49	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	10/19/1998	0.007	out	49	SW 8260A
Dibromofluoromethane (Surr)	90.0	†	10/19/1998	74-132	out	49	SW 8260A
Toluene-d8 (Surr)	90.0	†	10/19/1998	90-134	out	49	SW 8260A
4-Bromofluoromethane (Surr)	108.0	†	10/19/1998	64-131	out	49	SW 8260A
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/16/1998		nwg	752	SW 3540C
<b>PNAs COMPOUNDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.029	mg/kg dw	10/20/1998	0.029	keh	752 1800	SW 8310
Acenaphthylene	<0.029	mg/kg dw	10/20/1998	0.029	keh	752 1800	SW 8310
Anthracene	<0.059	mg/kg dw	10/21/1998	0.059	keh	752 1801	SW 8310
Benzo(a)anthracene	<0.0038	mg/kg dw	10/20/1998	0.0038	keh	752 1800	SW 8310
Benzo(b)fluoranthene	<0.0053	mg/kg dw	10/20/1998	0.0053	keh	752 1800	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496987

NET Job No.: 98.13083

Sample Description: B-13  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 15:40  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	<0.0040	mg/kg dw	10/20/1998	0.0040	keh	752 1800	SW 8310
Benzo(a)pyrene	<0.0054	mg/kg dw	10/20/1998	0.0054	keh	752 1800	SW 8310
Benzo(ghi)perylene	<0.047	mg/kg dw	10/20/1998	0.047	keh	752 1800	SW 8310
Chrysene	<0.04	mg/kg dw	10/21/1998	0.04	keh	752 1801	SW 8310
Dibenzo(a,h)anthracene	<0.007	mg/kg dw	10/20/1998	0.007	keh	752 1800	SW 8310
Fluoranthene	<0.023	mg/kg dw	10/20/1998	0.023	keh	752 1800	SW 8310
Fluorene	<0.023	mg/kg dw	10/20/1998	0.023	keh	752 1800	SW 8310
Indeno(1,2,3-cd)pyrene	<0.010	mg/kg dw	10/20/1998	0.010	keh	752 1800	SW 8310
Naphthalene	<0.029	mg/kg dw	10/20/1998	0.029	keh	752 1800	SW 8310
Phenanthrene	<0.047	mg/kg dw	10/20/1998	0.047	keh	752 1800	SW 8310
Pyrene	<0.023	mg/kg dw	10/20/1998	0.023	keh	752 1800	SW 8310
Surr: p-Terphenyl	87.5	t	10/20/1998	43-125	keh	752 1800	SW 8310

PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.047	mg/kg dw	10/19/1998	0.047	jrs	364 39	SW 8082
PCB-1221	<0.047	mg/kg dw	10/19/1998	0.047	jrs	364 39	SW 8082
PCB-1232	<0.047	mg/kg dw	10/19/1998	0.047	jrs	364 39	SW 8082
PCB-1242	<0.047	mg/kg dw	10/19/1998	0.047	jrs	364 39	SW 8082
PCB-1248	<0.047	mg/kg dw	10/19/1998	0.047	jrs	364 39	SW 8082
PCB-1254	<0.047	mg/kg dw	10/19/1998	0.047	jrs	364 39	SW 8082
PCB-1260	<0.047	mg/kg dw	10/19/1998	0.047	jrs	364 39	SW 8082
Decachlorobiphenyl (Surr)	159.0	RM t	10/19/1998	NA	jrs	364 39	SW 8082
2,4,5,6-TCMX (Surr)	154.0	RM t	10/19/1998	NA	jrs	364 39	SW 8082

RM : Surrogate was outside of QA/QC limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
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740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496987  
NET Job No. : 98.13083

Sample Description: B-13  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 15:40  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.79	units	10/14/1998	0.10	nwg	168	SW 9045B
Solids, Total	85.7	%	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	7.4	mg/kg dw	10/22/1998	0.58	mhp	218 657	SW 7060
Barium, ICP	140	mg/kg dw	10/22/1998	1.2	kdw	1142 2148	SW 6010B
Cadmium, ICP	<0.58	mg/kg dw	10/19/1998	0.58	kdw	1142 2127	SW 6010B
Chromium, ICP	16	mg/kg dw	10/19/1998	2.3	kdw	1142 2113	SW 6010B
Lead, ICP	20	mg/kg dw	10/19/1998	4.7	kdw	1142 2349	SW 6010B
Mercury, CVAA	<0.047	mg/kg dw	10/23/1998	0.047	sep	659 764	SW 7471A
Selenium, GFAA	<0.29	mg/kg dw	10/23/1998	0.29	mhp	218 546	SW 7740
Silver, AA	<2.3	mg/kg dw	10/21/1998	2.3	sep	477 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/19/1998	0.006	out	49	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/19/1998	0.006	out	49	SW 8260A
Toluene	<0.006	mg/kg dw	10/19/1998	0.006	out	49	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/19/1998	0.006	out	49	SW 8260A
Dibromofluoromethane (Surr)	96.0	%	10/19/1998	74-132	out	49	SW 8260A
Toluene-d8 (Surr)	102.0	%	10/19/1998	90-134	out	49	SW 8260A
4-Bromofluoromethane (Surr)	107.0	%	10/19/1998	64-131	out	49	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/16/1998		nwg	752	SW 3540C
<b>PNA CMFDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.023	mg/kg dw	10/20/1998	0.023	keh	752 1800	SW 8310
Acenaphthylene	<0.023	mg/kg dw	10/20/1998	0.023	keh	752 1800	SW 8310
Anthracene	<0.047	mg/kg dw	10/21/1998	0.047	keh	752 1801	SW 8310
Benzo(a)anthracene	<0.040	MX mg/kg dw	10/20/1998	0.0030	keh	752 1800	SW 8310
Benzo(b)fluoranthene	<0.0042	mg/kg dw	10/20/1998	0.0042	keh	752 1800	SW 8310

MX : Dilution required due to sample matrix; analyte is not detected.



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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(800) 807-2877

**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496986  
NET Job No.: 98.13083

Sample Description: B-12  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 15:15  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	<0.0036	mg/kg dw	10/20/1998	0.0036	keh	752 1800	SW 8310
Benzo(a)pyrene	<0.0049	mg/kg dw	10/20/1998	0.0049	keh	752 1800	SW 8310
Benzo(ghi)perylene	<0.043	mg/kg dw	10/20/1998	0.043	keh	752 1800	SW 8310
Chrysene	<0.03	mg/kg dw	10/20/1998	0.03	keh	752 1800	SW 8310
Dibenzo(a,h)anthracene	<0.006	mg/kg dw	10/20/1998	0.006	keh	752 1800	SW 8310
Fluoranthene	<0.021	mg/kg dw	10/20/1998	0.021	keh	752 1800	SW 8310
Fluorene	<0.021	mg/kg dw	10/20/1998	0.021	keh	752 1800	SW 8310
Indeno(1,2,3-cd)pyrene	<0.0092	mg/kg dw	10/20/1998	0.0092	keh	752 1800	SW 8310
Naphthalene	<0.027	mg/kg dw	10/20/1998	0.027	keh	752 1800	SW 8310
Phenanthrene	<0.043	mg/kg dw	10/20/1998	0.043	keh	752 1800	SW 8310
Pyrene	<0.021	mg/kg dw	10/20/1998	0.021	keh	752 1800	SW 8310
Surr: p-Terphenyl	75.4	t	10/20/1998	43-125	keh	752 1800	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wma	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.043	mg/kg dw	10/19/1998	0.043	jrs	364 39	SW 8082
PCB-1221	<0.043	mg/kg dw	10/19/1998	0.043	jrs	364 39	SW 8082
PCB-1232	<0.043	mg/kg dw	10/19/1998	0.043	jrs	364 39	SW 8082
PCB-1242	<0.043	mg/kg dw	10/19/1998	0.043	jrs	364 39	SW 8082
PCB-1248	<0.043	mg/kg dw	10/19/1998	0.043	jrs	364 39	SW 8082
PCB-1254	<0.043	mg/kg dw	10/19/1998	0.043	jrs	364 39	SW 8082
PCB-1260	<0.043	mg/kg dw	10/19/1998	0.043	jrs	364 39	SW 8082
Decachlorobiphenyl (Surr)	84.0	t	10/19/1998	NA	jrs	364 39	SW 8082
2,4,5,6-TCMX (Surr)	81.0	t	10/19/1998	NA	jrs	364 39	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496986  
NET Job No.: 98.13083

Sample Description: B-12  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 15:15  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.02	units	10/13/1998	0.10	nwg	167	SW 9045B
Solids, Total	93.7	‡	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	6.7	mg/kg dw	10/22/1998	0.53	mhp	218 657	SW 7060
Barium, ICP	29	mg/kg dw	10/22/1998	1.1	kdw	1142 2148	SW 6010B
Cadmium, ICP	<0.53	mg/kg dw	10/19/1998	0.53	jtc	1142 2127	SW 6010B
Chromium, ICP	8.4	mg/kg dw	10/19/1998	2.1	jtc	1142 2113	SW 6010B
Lead, ICP	10	mg/kg dw	10/19/1998	4.3	jtc	1142 2349	SW 6010B
Mercury, CVAA	0.33	MS mg/kg dw	10/22/1998	0.043	sep	658 761	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	10/23/1998	0.27	mhp	218 546	SW 7740
Silver, AA	<2.1	mg/kg dw	10/21/1998	2.1	sep	477 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Toluene	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Dibromofluoromethane (Surr)	92.0	‡	10/17/1998	74-132	out	48	SW 8260A
Toluene-d8 (Surr)	98.0	‡	10/17/1998	90-134	out	48	SW 8260A
4-Bromofluoromethane (Surr)	107.0	‡	10/17/1998	64-131	out	48	SW 8260A
Prep. 8310 PNAs NON-AQUEOUS	extracted		10/16/1998		nwg	752	SW 3540C
<b>PKA COMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.021	mg/kg dw	10/20/1998	0.021	keh	752 1800	SW 8310
Acenaphthylene	<0.021	mg/kg dw	10/20/1998	0.021	keh	752 1800	SW 8310
Anthracene	<0.043	mg/kg dw	10/20/1998	0.043	keh	752 1801	SW 8310
Benzo(a)anthracene	<0.0028	mg/kg dw	10/20/1998	0.0028	keh	752 1800	SW 8310
Benzo(b)fluoranthene	<0.0038	mg/kg dw	10/20/1998	0.0038	keh	752 1800	SW 8310

MS recovery was outside the acceptance limits. The LCS was in control.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496985

NET Job No.: 98.13083

Sample Description: B-11  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 14:50  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	<0.0037	mg/kg dw	10/20/1998	0.0037	keh	752 1800	SW 8310
Benzo (a) pyrene	<0.0050	mg/kg dw	10/20/1998	0.0050	keh	752 1800	SW 8310
Benzo (ghi) perylene	<0.043	mg/kg dw	10/20/1998	0.043	keh	752 1800	SW 8310
Chrysene	<0.03	mg/kg dw	10/20/1998	0.03	keh	752 1801	SW 8310
Dibenzo (a, h) anthracene	<0.007	mg/kg dw	10/20/1998	0.007	keh	752 1800	SW 8310
Fluoranthene	<0.022	mg/kg dw	10/20/1998	0.022	keh	752 1800	SW 8310
Fluorene	<0.022	mg/kg dw	10/20/1998	0.022	keh	752 1800	SW 8310
Indeno (1,2,3-cd) pyrene	<0.0093	mg/kg dw	10/20/1998	0.0093	keh	752 1800	SW 8310
Naphthalene	<0.027	mg/kg dw	10/20/1998	0.027	keh	752 1800	SW 8310
Phenanthrene	<0.043	mg/kg dw	10/20/1998	0.043	keh	752 1800	SW 8310
Pyrene	<0.022	mg/kg dw	10/20/1998	0.022	keh	752 1800	SW 8310
Surr: p-Terphenyl	84.4	µ	10/20/1998	43-125	keh	752 1800	SW 8310

PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wma	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.043	mg/kg dw	10/16/1998	0.043	jrs	364 37	SW 8082
PCB-1221	<0.043	mg/kg dw	10/16/1998	0.043	jrs	364 37	SW 8082
PCB-1232	<0.043	mg/kg dw	10/16/1998	0.043	jrs	364 37	SW 8082
PCB-1242	<0.043	mg/kg dw	10/16/1998	0.043	jrs	364 37	SW 8082
PCB-1248	<0.043	mg/kg dw	10/16/1998	0.043	jrs	364 37	SW 8082
PCB-1254	<0.043	mg/kg dw	10/16/1998	0.043	jrs	364 37	SW 8082
PCB-1260	<0.043	mg/kg dw	10/16/1998	0.043	jrs	364 37	SW 8082
Decachlorobiphenyl (Surr)	Masked		10/16/1998	NA	jrs	364 37	SW 8082
2,4,5,6-TCDF (Surr)	95.0	µ	10/16/1998	NA	jrs	364 37	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496985

NET Job No.: 98.13083

Sample Description: B-11  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 14:50  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.88	units	10/13/1998	0.10	nwg	166	SW 9045B
Solids, Total	92.3	t	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	6.4	mg/kg dw	10/22/1998	0.54	mhp	218 657	SW 7060
Barium, ICP	228	mg/kg dw	10/22/1998	1.1	kdw	1142 2148	SW 6010B
Cadmium, ICP	0.80	mg/kg dw	10/19/1998	0.54	jtt	1142 2127	SW 6010B
Chromium, ICP	98	mg/kg dw	10/19/1998	2.2	jtt	1142 2113	SW 6010B
Lead, ICP	27	mg/kg dw	10/19/1998	4.3	jtt	1142 2349	SW 6010B
Mercury, CVAAs	0.39	mg/kg dw	10/22/1998	0.043	sep	658 761	SW 7471A
Selenium, GFAA	0.29	mg/kg dw	10/23/1998	0.27	mhp	218 546	SW 7740
Silver, AA	<2.2	mg/kg dw	10/21/1998	2.2	sep	477 564	SW 7760
<b>DST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/19/1998	0.005	out	49	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/19/1998	0.005	out	49	SW 8260A
Toluene	<0.005	mg/kg dw	10/19/1998	0.005	out	49	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/19/1998	0.005	out	49	SW 8260A
Dibromofluoromethane (Surr)	102.0	t	10/19/1998	74-132	out	49	SW 8260A
Toluene-d8 (Surr)	93.0	t	10/19/1998	90-134	out	49	SW 8260A
4-Bromofluoromethane (Surr)	95.0	t	10/19/1998	64-131	out	49	SW 8260A
Prep, 8310 PNAAs NON-AQUEOUS	extracted		10/16/1998		nwg	752	SW 3540C
<b>PNA CMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.022	mg/kg dw	10/20/1998	0.022	keh	752 1800	SW 8310
Acenaphthylene	<0.022	mg/kg dw	10/20/1998	0.022	keh	752 1800	SW 8310
Anthracene	<0.043	mg/kg dw	10/20/1998	0.043	keh	752 1801	SW 8310
Benzo(a)anthracene	<0.012	MX	10/20/1998	0.0028	keh	752 1800	SW 8310
Benzo(b)fluoranthene	<0.0039	mg/kg dw	10/20/1998	0.0039	keh	752 1800	SW 8310

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496984  
NET Job No.: 98.13083

Sample Description: B-10  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 14:35  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	0.0086	mg/kg dw	10/20/1998	0.0036	keh	752 1800	SW 8310
Benzo (a) pyrene	0.018	mg/kg dw	10/20/1998	0.0049	keh	752 1800	SW 8310
Benzo (ghi) perylene	<0.042	mg/kg dw	10/20/1998	0.042	keh	752 1800	SW 8310
Chrysene	<0.03	mg/kg dw	10/20/1998	0.03	keh	752 1801	SW 8310
Dibenzo (a, h) anthracene	<0.006	mg/kg dw	10/20/1998	0.006	keh	752 1800	SW 8310
Fluoranthene	<0.089	MX mg/kg dw	10/20/1998	0.021	keh	752 1800	SW 8310
Fluorene	<0.021	mg/kg dw	10/20/1998	0.021	keh	752 1800	SW 8310
Indeno (1, 2, 3-cd) pyrene	0.014	mg/kg dw	10/20/1998	0.0091	keh	752 1800	SW 8310
Naphthalene	<0.026	mg/kg dw	10/20/1998	0.026	keh	752 1800	SW 8310
Phenanthrene	<0.042	mg/kg dw	10/20/1998	0.042	keh	752 1800	SW 8310
Pyrene	0.027	mg/kg dw	10/20/1998	0.021	keh	752 1800	SW 8310
Surr: p-Terphenyl	Masked		10/20/1998	43-125	keh	752 1800	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.042	mg/kg dw	10/19/1998	0.042	jrs	364 39	SW 8082
PCB-1221	<0.042	mg/kg dw	10/19/1998	0.042	jrs	364 39	SW 8082
PCB-1232	<0.042	mg/kg dw	10/19/1998	0.042	jrs	364 39	SW 8082
PCB-1242	<0.042	mg/kg dw	10/19/1998	0.042	jrs	364 39	SW 8082
PCB-1248	<0.042	mg/kg dw	10/19/1998	0.042	jrs	364 39	SW 8082
PCB-1254	<0.042	mg/kg dw	10/19/1998	0.042	jrs	364 39	SW 8082
PCB-1260	<0.042	mg/kg dw	10/19/1998	0.042	jrs	364 39	SW 8082
Decachlorobiphenyl (Surr)	85.0	µ	10/19/1998	NA	jrs	364 39	SW 8082
2,4,5,6-TCMX (Surr)	84.0	µ	10/19/1998	NA	jrs	364 39	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.





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**ANALYTICAL REPORT**

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10/27/1998  
Sample No. : 496984  
NET Job No.: 98.13083

Sample Description: B-10  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 14:35  
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Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method POL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.89	units	10/13/1998	0.10	nwg	166	SW 9045B
Solids, Total	94.8	†	10/20/1998	0.1	efw	2489	SM 2540
Arsenic, GFAA	5.4	mg/kg dw	10/21/1998	0.53	mhp	218 657	SW 7060
Barium, ICP	232	mg/kg dw	10/22/1998	1.1	kdw	1142 2148	SW 6010B
Cadmium, ICP	0.94	mg/kg dw	10/19/1998	0.53	jtt	1142 2127	SW 6010B
Chromium, ICP	137	mg/kg dw	10/19/1998	2.1	jtt	1142 2113	SW 6010B
Lead, ICP	31	mg/kg dw	10/19/1998	4.2	jtt	1142 2349	SW 6010B
Mercury, CVAA	<0.042	mg/kg dw	10/22/1998	0.042	sep	658 761	SW 7471A
Selenium, GPAA	0.47	mg/kg dw	10/26/1998	0.26	mhp	218 546	SW 7740
Silver, AA	<2.1	mg/kg dw	10/21/1998	2.1	sep	477 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Toluene	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Dibromofluoromethane (Surr)	98.0	†	10/17/1998	74-132	out	48	SW 8260A
Toluene-d8 (Surr)	96.0	†	10/17/1998	90-134	out	48	SW 8260A
4-Bromofluoromethane (Surr)	103.0	†	10/17/1998	64-131	out	48	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/16/1998		nwg	752	SW 3540C
PNA COMPS - 8310 NONAQUEOUS							
Acenaphthene	<0.021	mg/kg dw	10/20/1998	0.021	keh	752 1800	SW 8310
Acenaphthylene	<0.021	mg/kg dw	10/20/1998	0.021	keh	752 1800	SW 8310
Anthracene	<0.042	mg/kg dw	10/20/1998	0.042	keh	752 1801	SW 8310
Benzo(a)anthracene	0.045	mg/kg dw	10/20/1998	0.0027	keh	752 1800	SW 8310
Benzo(b)fluoranthene	0.016	mg/kg dw	10/20/1998	0.0038	keh	752 1800	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496983

NET Job No.: 98.13083

Sample Description: B-9  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 14:15  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k)fluoranthene	0.015	ng/kg dw	10/19/1998	0.0037	keh	750 1800	SW 8310
Benzo(a)pyrene	0.021	ng/kg dw	10/19/1998	0.0050	keh	750 1800	SW 8310
Benzo(ghi)perylene	<0.043	ng/kg dw	10/19/1998	0.043	keh	750 1800	SW 8310
Chrysene	<0.03	ng/kg dw	10/19/1998	0.03	keh	750 1800	SW 8310
Dibenzo(a,h)anthracene	<0.006	ng/kg dw	10/19/1998	0.006	keh	750 1800	SW 8310
Fluoranthene	<0.12	MX ng/kg dw	10/19/1998	0.022	keh	750 1800	SW 8310
Fluorene	<0.022	ng/kg dw	10/19/1998	0.022	keh	750 1800	SW 8310
Indeno(1,2,3-cd)pyrene	0.024	ng/kg dw	10/19/1998	0.0093	keh	750 1800	SW 8310
Naphthalene	0.044	ng/kg dw	10/19/1998	0.027	keh	750 1800	SW 8310
Phenanthrene	<0.043	ng/kg dw	10/19/1998	0.043	keh	750 1800	SW 8310
Pyrene	0.049	ng/kg dw	10/19/1998	0.022	keh	750 1800	SW 8310
Surr: p-Terphenyl	97.8	µ	10/19/1998	43-125	keh	750 1800	SW 8310

PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.043	ng/kg dw	10/16/1998	0.043	jrs	364 37	SW 8082
PCB-1221	<0.043	ng/kg dw	10/16/1998	0.043	jrs	364 37	SW 8082
PCB-1232	<0.043	ng/kg dw	10/16/1998	0.043	jrs	364 37	SW 8082
PCB-1242	<0.043	ng/kg dw	10/16/1998	0.043	jrs	364 37	SW 8082
PCB-1248	<0.043	ng/kg dw	10/16/1998	0.043	jrs	364 37	SW 8082
PCB-1254	<0.043	ng/kg dw	10/16/1998	0.043	jrs	364 37	SW 8082
PCB-1260	<0.043	ng/kg dw	10/16/1998	0.043	jrs	364 37	SW 8082
Decachlorobiphenyl (Surr)	102.0	µ	10/16/1998	NA	jrs	364 37	SW 8082
2,4,5,6-TCDF (Surr)	94.0	µ	10/16/1998	NA	jrs	364 37	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496983

NET Job No.: 98.13083

Sample Description: B-9  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 14:15  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.83	units	10/13/1998	0.10	nwg	166	SW 9045B
Solids, Total	92.6	%	10/20/1998	0.1	efw	2488	SM 2540
Arsenic, GFAA	12	mg/kg dw	10/21/1998	0.54	mhp	218 657	SW 7060
Barium, ICP	98	mg/kg dw	10/22/1998	1.1	kdw	1142 2148	SW 6010B
Cadmium, ICP	1.1	mg/kg dw	10/19/1998	0.54	jtt	1142 2127	SW 6010B
Chromium, ICP	26	mg/kg dw	10/19/1998	2.2	jtt	1142 2113	SW 6010B
Lead, ICP	78	mg/kg dw	10/19/1998	4.3	jtt	1142 2349	SW 6010B
Mercury, CVA	<0.043	mg/kg dw	10/22/1998	0.043	sep	658 761	SW 7471A
Selenium, GFAA	<0.27	mg/kg dw	10/23/1998	0.27	mhp	218 546	SW 7740
Silver, AA	<2.2	mg/kg dw	10/21/1998	2.2	sep	477 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Toluene	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Dibromofluoromethane (Surr)	96.0	%	10/17/1998	74-132	out	48	SW 8260A
Toluene-d8 (Surr)	96.0	%	10/17/1998	90-134	out	48	SW 8260A
4-Bromofluoromethane (Surr)	101.0	%	10/17/1998	64-131	out	48	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/14/1998		mrv	750	SW 3540C
<b>PNA CMPOS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.022	mg/kg dw	10/19/1998	0.022	keh	750 1800	SW 8310
Acenaphthylene	<0.022	mg/kg dw	10/19/1998	0.022	keh	750 1800	SW 8310
Anthracene	<0.14	MX	10/19/1998	0.043	keh	750 1800	SW 8310
Benzo(a)anthracene	0.042	mg/kg dw	10/19/1998	0.0028	keh	750 1800	SW 8310
Benzo(b)fluoranthene	0.030	mg/kg dw	10/19/1998	0.0039	keh	750 1800	SW 8310

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496982

NET Job No.: 98.13083

Sample Description: B-6  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 13:45  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo(k) fluoranthene	0.064	ug/kg dw	10/20/1998	0.0040	keh	750 1799	SW 8310
Benzo(a) pyrene	0.12	ug/kg dw	10/20/1998	0.0054	keh	750 1799	SW 8310
Benzo(ghi) perylene	0.088	ug/kg dw	10/20/1998	0.047	keh	750 1799	SW 8310
Chrysene	0.14	ug/kg dw	10/20/1998	0.04	keh	750 1799	SW 8310
Dibenzo(a,h) anthracene	0.016	ug/kg dw	10/20/1998	0.007	keh	750 1799	SW 8310
Fluoranthene	0.53	ug/kg dw	10/20/1998	0.023	keh	750 1799	SW 8310
Fluorene	0.14	ug/kg dw	10/20/1998	0.023	keh	750 1799	SW 8310
Indeno(1,2,3-cd) pyrene	0.076	ug/kg dw	10/20/1998	0.010	keh	750 1799	SW 8310
Naphthalene	0.28	ug/kg dw	10/20/1998	0.029	keh	750 1799	SW 8310
Phenanthrene	0.51	ug/kg dw	10/20/1998	0.047	keh	750 1799	SW 8310
Pyrene	0.37	ug/kg dw	10/20/1998	0.023	keh	750 1799	SW 8310
Surr: p-Terphenyl	Masked		10/20/1998	43-125	keh	750 1799	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wma	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.047	ug/kg dw	10/19/1998	0.047	jrs	364 39	SW 8082
PCB-1221	<0.047	ug/kg dw	10/19/1998	0.047	jrs	364 39	SW 8082
PCB-1232	<0.047	ug/kg dw	10/19/1998	0.047	jrs	364 39	SW 8082
PCB-1242	<0.047	ug/kg dw	10/19/1998	0.047	jrs	364 39	SW 8082
PCB-1248	<0.047	ug/kg dw	10/19/1998	0.047	jrs	364 39	SW 8082
PCB-1254	<0.047	ug/kg dw	10/19/1998	0.047	jrs	364 39	SW 8082
PCB-1260	<0.047	ug/kg dw	10/19/1998	0.047	jrs	364 39	SW 8082
Decachlorobiphenyl (Surr)	80.0	%	10/19/1998	NA	jrs	364 39	SW 8082
2,4,5,6-TCDF (Surr)	85.0	%	10/19/1998	NA	jrs	364 39	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496982  
NET Job No.: 98.13083

Sample Description: B-6  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 13:45  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.86	units	10/13/1998	0.10	nwg	166	SW 9045B
Solids, Total	85.6	%	10/20/1998	0.1	efw	2482	SM 2540
Arsenic, GFAA	48	mg/kg dw	10/21/1998	0.58	mhp	218 657	SW 7060
Barium, ICP	222	mg/kg dw	10/22/1998	1.2	kdw	1142 2148	SW 6010B
Cadmium, ICP	7.4	mg/kg dw	10/19/1998	0.58	jtt	1142 2127	SW 6010B
Chromium, ICP	140	mg/kg dw	10/19/1998	2.3	jtt	1142 2113	SW 6010B
Lead, ICP	48	mg/kg dw	10/19/1998	4.7	jtt	1142 2349	SW 6010B
Mercury, CVAA	<0.047	mg/kg dw	10/22/1998	0.047	sep	658 761	SW 7471A
Selenium, GFAA	1.9	mg/kg dw	10/23/1998	0.29	mhp	218 546	SW 7740
Silver, AA	<2.3	mg/kg dw	10/21/1998	2.3	sep	477 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.006	mg/kg dw	10/17/1998	0.006	out	48	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/17/1998	0.006	out	48	SW 8260A
Toluene	<0.006	mg/kg dw	10/17/1998	0.006	out	48	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/17/1998	0.006	out	48	SW 8260A
Dibromofluoromethane (Surr)	97.0	%	10/17/1998	74-132	out	48	SW 8260A
Toluene-d8 (Surr)	96.0	%	10/17/1998	90-134	out	48	SW 8260A
4-Bromofluoromethane (Surr)	108.0	%	10/17/1998	64-131	out	48	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/14/1998		mmv	750	SW 3540C
<b>PNA CMPS - 8310 NON-AQUEOUS</b>							
Acenaphthene	0.12	mg/kg dw	10/20/1998	0.023	keh	750 1799	SW 8310
Acenaphthylene	<0.023	mg/kg dw	10/20/1998	0.023	keh	750 1799	SW 8310
Anthracene	0.19	mg/kg dw	10/20/1998	0.047	keh	750 1799	SW 8310
Benzo(a)anthracene	0.14	mg/kg dw	10/20/1998	0.0030	keh	750 1799	SW 8310
Benzo(b)fluoranthene	0.13	mg/kg dw	10/20/1998	0.0042	keh	750 1799	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 496981  
NET Job No.: 98.13083

Sample Description: B-5  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 11:45  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	5.5	mg/kg dw	10/20/1998	0.0037	keh	750 1799	SW 8310
Benzo (a) pyrene	11	mg/kg dw	10/20/1998	0.0050	keh	750 1799	SW 8310
Benzo (ghi) perylene	10	mg/kg dw	10/20/1998	0.043	keh	750 1799	SW 8310
Chrysene	9.3	mg/kg dw	10/20/1998	0.03	keh	750 1799	SW 8310
Dibenzo (a, h) anthracene	2.1	mg/kg dw	10/20/1998	0.007	keh	750 1799	SW 8310
Fluoranthene	28	mg/kg dw	10/20/1998	0.022	keh	750 1799	SW 8310
Fluorene	3.5	mg/kg dw	10/20/1998	0.022	keh	750 1799	SW 8310
Indeno (1, 2, 3-cd) pyrene	7.2	mg/kg dw	10/20/1998	0.0093	keh	750 1799	SW 8310
Naphthalene	<1.6	mg/kg dw	10/20/1998	0.027	keh	750 1799	SW 8310
Phenanthrene	22	mg/kg dw	10/20/1998	0.043	keh	750 1799	SW 8310
Pyrene	22	mg/kg dw	10/20/1998	0.022	keh	750 1799	SW 8310
Surr: p-Terphenyl	Diluted out		10/20/1998	43-125	keh	750 1799	SW 8310

PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wra	364	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.043	mg/kg dw	10/19/1998	0.043	jrs	364 39	SW 8082
PCB-1221	<0.043	mg/kg dw	10/19/1998	0.043	jrs	364 39	SW 8082
PCB-1232	<0.043	mg/kg dw	10/19/1998	0.043	jrs	364 39	SW 8082
PCB-1242	<0.043	mg/kg dw	10/19/1998	0.043	jrs	364 39	SW 8082
PCB-1248	<0.043	mg/kg dw	10/19/1998	0.043	jrs	364 39	SW 8082
PCB-1254	<0.043	mg/kg dw	10/19/1998	0.043	jrs	364 39	SW 8082
PCB-1260	0.050	mg/kg dw	10/19/1998	0.043	jrs	364 39	SW 8082
Decachlorobiphenyl (Surr)	76.0	†	10/19/1998	NA	jrs	364 39	SW 8082
2,4,5,6-TCDF (Surr)	85.0	†	10/19/1998	NA	jrs	364 39	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

Sample No. : 496981

NET Job No.: 98.13083

Sample Description: B-5  
ComEd-Powerton; 1801-023-510

Date Taken: 10/06/1998  
Time Taken: 11:45  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.70	units	10/13/1998	0.10	nwg	166	SW 9045B
Solids, Total	92.3	†	10/20/1998	0.1	efw	2482	SM 2540
Arsenic, GFAA	11	mg/kg dw	10/21/1998	0.54	mhp	218 657	SW 7060
Barium, ICP	314	mg/kg dw	10/22/1998	1.1	kdw	1142 2148	SW 6010B
Cadmium, ICP	0.83	mg/kg dw	10/19/1998	0.54	jtc	1142 2127	SW 6010B
Chromium, ICP	17	mg/kg dw	10/19/1998	2.2	jtc	1142 2113	SW 6010B
Lead, ICP	25	mg/kg dw	10/19/1998	4.3	jtc	1142 2349	SW 6010B
Mercury, CVAA	0.13	mg/kg dw	10/22/1998	0.043	sep	658 761	SW 7471A
Selenium, GFAA	0.39	mg/kg dw	10/23/1998	0.27	mhp	218 546	SW 7740
Silver, AA	<2.2	mg/kg dw	10/21/1998	2.2	sep	477 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Toluene	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/17/1998	0.005	out	48	SW 8260A
Dibromofluoromethane (Surr)	99.0	†	10/17/1998	74-132	out	48	SW 8260A
Toluene-d8 (Surr)	97.0	†	10/17/1998	90-134	out	48	SW 8260A
4-Bromofluoromethane (Surr)	100.0	†	10/17/1998	64-131	out	48	SW 8260A
Prep, 8310 PNA <sub>s</sub> NON-AQUEOUS	extracted		10/14/1998		mmv	750	SW 3540C
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	2.8	mg/kg dw	10/20/1998	0.022	keh	750 1799	SW 8310
Acenaphthylene	<1.3	mg/kg dw	10/20/1998	0.022	keh	750 1799	SW 8310
Anthracene	8.1	mg/kg dw	10/20/1998	0.043	keh	750 1799	SW 8310
Benzo(a)anthracene	11	mg/kg dw	10/20/1998	0.0028	keh	750 1799	SW 8310
Benzo(b)fluoranthene	10	mg/kg dw	10/20/1998	0.0039	keh	750 1799	SW 8310

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 497005  
NET Job No.: 98.13083

Sample Description: B-33  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 16:20  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	<0.0038	mg/kg dw	10/23/1998	0.0038	keh	753 1806	SW 8310
Benzo (a) pyrene	<0.0051	mg/kg dw	10/23/1998	0.0051	keh	753 1806	SW 8310
Benzo (ghi) perylene	<0.044	mg/kg dw	10/23/1998	0.044	keh	753 1806	SW 8310
Chrysene	<0.03	mg/kg dw	10/23/1998	0.03	keh	753 1808	SW 8310
Dibenzo (a,h) anthracene	<0.007	mg/kg dw	10/23/1998	0.007	keh	753 1806	SW 8310
Fluoranthene	<0.022	mg/kg dw	10/23/1998	0.022	keh	753 1806	SW 8310
Fluorene	<0.022	mg/kg dw	10/23/1998	0.022	keh	753 1806	SW 8310
Indeno (1,2,3-cd) pyrene	<0.0096	mg/kg dw	10/23/1998	0.0096	keh	753 1806	SW 8310
Naphthalene	<0.028	mg/kg dw	10/23/1998	0.028	keh	753 1806	SW 8310
Phenanthrene	<0.044	mg/kg dw	10/23/1998	0.044	keh	753 1806	SW 8310
Pyrene	<0.022	mg/kg dw	10/23/1998	0.022	keh	753 1806	SW 8310
Surr: p-Terphenyl	82.8	t	10/23/1998	43-125	keh	753 1806	SW 8310

PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	365	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.044	mg/kg dw	10/20/1998	0.044	jrs	365 43	SW 8082
PCB-1221	<0.044	mg/kg dw	10/20/1998	0.044	jrs	365 43	SW 8082
PCB-1232	<0.044	mg/kg dw	10/20/1998	0.044	jrs	365 43	SW 8082
PCB-1242	<0.044	mg/kg dw	10/20/1998	0.044	jrs	365 43	SW 8082
PCB-1248	<0.044	mg/kg dw	10/20/1998	0.044	jrs	365 43	SW 8082
PCB-1254	<0.044	mg/kg dw	10/20/1998	0.044	jrs	365 43	SW 8082
PCB-1260	<0.044	mg/kg dw	10/20/1998	0.044	jrs	365 43	SW 8082
Decachlorobiphenyl (Surr)	99.0	t	10/20/1998	NA	jrs	365 43	SW 8082
2,4,5,6-TCDF (Surr)	93.0	t	10/20/1998	NA	jrs	365 43	SW 8082





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998  
Sample No. : 497006  
NET Job No.: 98.13083

Sample Description: B-34  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 16:40  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	9.48	units	10/14/1998	0.10	nwg	169	SW 9045B
Solids, Total	94.5	†	10/20/1998	0.1	efw	2490	SM 2540
Arsenic, GFAA	3.3	mg/kg dw	10/22/1998	0.53	mhp	221 658	SW 7060
Barium, ICP	169	mg/kg dw	10/22/1998	1.0	kdw	1145 2148	SW 6010B
Cadmium, ICP	<1.0	MX mg/kg dw	10/22/1998	0.53	kdw	1145 2135	SW 6010B
Chromium, ICP	5.3	mg/kg dw	10/22/1998	2.1	kdw	1145 2121	SW 6010B
Lead, ICP	8.5	mg/kg dw	10/22/1998	4.2	kdw	1145 2357	SW 6010B
Mercury, CVAA	<0.042	mg/kg dw	10/22/1998	0.042	sep	659 761	SM 7471A
Selenium, GFAA	<0.26	mg/kg dw	10/24/1998	0.26	mhp	221 545	SW 7740
Silver, AA	<2.1	mg/kg dw	10/21/1998	2.1	sep	479 564	SW 7760
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.005	mg/kg dw	10/21/1998	0.005	out	52	SW 8260A
Ethylbenzene	<0.005	mg/kg dw	10/21/1998	0.005	out	52	SW 8260A
Toluene	<0.005	mg/kg dw	10/21/1998	0.005	out	52	SW 8260A
Xylenes, Total	<0.005	mg/kg dw	10/21/1998	0.005	out	52	SW 8260A
Dibromofluoromethane (Surr)	89.0	†	10/21/1998	74-132	out	52	SW 8260A
Toluene-d8 (Surr)	100.0	†	10/21/1998	90-134	out	52	SW 8260A
4-Bromofluoromethane (Surr)	108.0	†	10/21/1998	64-131	out	52	SW 8260A
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/17/1998		nwg	753	SW 3540C
<b>PNA COMPS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.021	mg/kg dw	10/23/1998	0.021	keh	753 1806	SW 8310
Acenaphthylene	<0.021	mg/kg dw	10/23/1998	0.021	keh	753 1806	SW 8310
Anthracene	<0.042	mg/kg dw	10/23/1998	0.042	keh	753 1806	SW 8310
Benzo(a)anthracene	<0.0028	mg/kg dw	10/23/1998	0.0028	keh	753 1806	SW 8310
Benzo(b)fluoranthene	<0.0038	mg/kg dw	10/23/1998	0.0038	keh	753 1806	SW 8310

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR.  
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Westmont, IL 60559

10/27/1998

Sample No. : 497006

NET Job No.: 98.13083

Sample Description: B-34  
ComEd-Powerton; 1801-023-510

Date Taken: 10/07/1998  
Time Taken: 16:40  
IEPA Cert. No. 100221

Date Received: 10/08/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Benzo (k) fluoranthene	<0.0036	mg/kg dw	10/23/1998	0.0036	keh	753 1806	SW 8310
Benzo (a) pyrene	<0.0049	mg/kg dw	10/23/1998	0.0049	keh	753 1806	SW 8310
Benzo (ghi) perylene	<0.042	mg/kg dw	10/23/1998	0.042	keh	753 1806	SW 8310
Chrysene	<0.03	mg/kg dw	10/23/1998	0.03	keh	753 1806	SW 8310
Dibenzo (a, h) anthracene	<0.006	mg/kg dw	10/23/1998	0.006	keh	753 1806	SW 8310
Fluoranthene	<0.021	mg/kg dw	10/23/1998	0.021	keh	753 1806	SW 8310
Fluorene	<0.021	mg/kg dw	10/23/1998	0.021	keh	753 1806	SW 8310
Indeno (1, 2, 3-cd) pyrene	<0.0091	mg/kg dw	10/23/1998	0.0091	keh	753 1806	SW 8310
Naphthalene	<0.026	mg/kg dw	10/23/1998	0.026	keh	753 1806	SW 8310
Phenanthrene	<0.042	mg/kg dw	10/23/1998	0.042	keh	753 1806	SW 8310
Pyrene	<0.021	mg/kg dw	10/23/1998	0.021	keh	753 1806	SW 8310
Surr: p-Terphenyl	68.5	†	10/23/1998	43-125	keh	753 1806	SW 8310

PCB Non-Aqueous Extraction	COMPLETE		10/13/1998	COMPLETE	wna	365	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.042	mg/kg dw	10/20/1998	0.042	jrs	365 43	SW 8082
PCB-1221	<0.042	mg/kg dw	10/20/1998	0.042	jrs	365 43	SW 8082
PCB-1232	<0.042	mg/kg dw	10/20/1998	0.042	jrs	365 43	SW 8082
PCB-1242	<0.042	mg/kg dw	10/20/1998	0.042	jrs	365 43	SW 8082
PCB-1248	<0.042	mg/kg dw	10/20/1998	0.042	jrs	365 43	SW 8082
PCB-1254	<0.042	mg/kg dw	10/20/1998	0.042	jrs	365 43	SW 8082
PCB-1260	<0.042	mg/kg dw	10/20/1998	0.042	jrs	365 43	SW 8082
Decachlorobiphenyl (Surr)	94.0	†	10/20/1998	NA	jrs	365 43	SW 8082
2,4,5,6-TCDF (Surr)	87.0	†	10/20/1998	NA	jrs	365 43	SW 8082



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
pH, Non-Aqueous	166	7.00	7.00	100.0
pH, Non-Aqueous	167	7.00	7.00	100.0
pH, Non-Aqueous	168	7.00	6.96	99.4
pH, Non-Aqueous	169	7.00	6.96	99.4
Arsenic, GFAA	655	0.0250	0.0245	98.0
Arsenic, GFAA	657	0.0250	0.0256	102.4
Arsenic, GFAA	658	0.0250	0.0250	100.0
Barium, ICP	2148	2.00	2.02	101.0
Barium, ICP	2150	2.00	2.01	100.5
Cadmium, ICP	2127	1.00	0.975	97.5
Cadmium, ICP	2127	1.00	1.09	109.0
Cadmium, ICP	2130	1.00	0.995	99.5
Cadmium, ICP	2135	1.00	1.00	100.0
Chromium, ICP	2113	2.00	1.94	97.0
Chromium, ICP	2113	2.00	2.16	108.0
Chromium, ICP	2116	2.00	1.96	98.0
Chromium, ICP	2121	2.00	2.00	100.0
Lead, ICP	2349	2.00	1.96	98.0
Lead, ICP	2349	2.00	2.16	108.0
Lead, ICP	2352	2.00	1.92	96.0
Mercury, CVAA	761	0.0025	0.00262	104.8
Mercury, CVAA	764	0.0025	0.00256	102.4
Selenium, GFAA	542	0.0500	0.0518	103.6
Selenium, GFAA	544	0.0500	0.0511	102.2
Selenium, GFAA	545	0.0500	0.0500	100.0
Selenium, GFAA	546	0.0500	0.0501	100.2
Selenium, GFAA	547	0.0500	0.0490	98.0
Silver, AA	564	0.50	0.497	99.4
UST VOLATILES NON-AQUEOUS				
Benzene	48	50.0	45.8	91.6
Ethylbenzene	48	50.0	44.6	89.2
Toluene	48	50.0	44.3	88.6
Xylenes, Total	48	150	136	90.7
UST VOLATILES NON-AQUEOUS				

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
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Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Benzene	49	50.0	47.6	95.2
Ethylbenzene	49	50.0	44.2	88.4
Toluene	49	50.0	48.5	97.0
Xylenes, Total	49	150	138	92.0
UST VOLATILES NON-AQUEOUS				
Benzene	50	50.0	52.6	105.2
Ethylbenzene	50	50.0	49.6	99.2
Toluene	50	50.0	49.6	99.2
Xylenes, Total	50	150	151	100.7
UST VOLATILES NON-AQUEOUS				
Benzene	51	50.0	52.6	105.2
Ethylbenzene	51	50.0	49.6	99.2
Toluene	51	50.0	49.6	99.2
Xylenes, Total	51	150	151	100.7
UST VOLATILES NON-AQUEOUS				
Benzene	52	50.0	51.8	103.6
Ethylbenzene	52	50.0	48.7	97.4
Toluene	52	50.0	49.8	99.6
Xylenes, Total	52	150	147	98.0
PNA CMPS - 8310 NONAQUEOUS				
Acenaphthene	1799	1000	985	98.5
Acenaphthylene	1799	1000	1,062	106.2
Anthracene	1799	1000	1,031	103.1
Benzo (a)anthracene	1799	1000	1,052	105.2
Benzo (b)fluoranthene	1799	1000	941	94.1
Benzo (k)fluoranthene	1799	1000	986	98.6
Benzo (a)pyrene	1799	1000	997	99.7
Benzo (ghi)perylene	1799	1000	1,053	105.3
Chrysene	1799	1000	1,047	104.7
Dibenzo (a, h)anthracene	1799	1000	1,005	100.5
Fluoranthene	1799	1000	1,052	105.2
Fluorene	1799	1000	1,037	103.7
Indeno (1,2,3-cd)pyrene	1799	1000	1,032	103.2
Naphthalene	1799	1000	1,027	102.7

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
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10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Run	CCV		Percent Recovery
	Batch Number	True Conc.	Conc. Found	
Phenanthrene	1799	1000	1,025	102.5
Pyrene	1799	1000	1,030	103.0
Surr: p-Terphenyl	1799	1000	983	98.3
PNA CMPS - 8310 NONAQUEOUS				
Acenaphthene	1799	1000	1,018	101.8
Acenaphthylene	1799	1000	1,053	105.3
Anthracene	1799	1000	1,052	105.2
Benzo(a)anthracene	1799	1000	1,063	106.3
Benzo(b)fluoranthene	1799	1000	999	99.9
Benzo(k)fluoranthene	1799	1000	991	99.1
Benzo(a)pyrene	1799	1000	992	99.2
Benzo(ghi)perylene	1799	1000	1,089	108.9
Chrysene	1799	1000	1,040	104.0
Dibenzo(a,h)anthracene	1799	1000	1,013	101.3
Fluoranthene	1799	1000	1,053	105.3
Fluorene	1799	1000	1,014	101.4
Indeno(1,2,3-cd)pyrene	1799	1000	995	99.5
Naphthalene	1799	1000	970	97.0
Phenanthrene	1799	1000	1,044	104.4
Pyrene	1799	1000	990	99.0
Surr: p-Terphenyl	1799	1000	1,008	100.8
PNA CMPS - 8310 NONAQUEOUS				
Acenaphthene	1799	1000	1,005	100.5
Acenaphthylene	1799	1000	1,075	107.5
Anthracene	1799	1000	1,059	105.9
Benzo(a)anthracene	1799	1000	1,053	105.3
Benzo(b)fluoranthene	1799	1000	973	97.3
Benzo(k)fluoranthene	1799	1000	1,014	101.4
Benzo(a)pyrene	1799	1000	1,001	100.1
Benzo(ghi)perylene	1799	1000	1,004	100.4
Chrysene	1799	1000	1,038	103.8
Dibenzo(a,h)anthracene	1799	1000	1,036	103.6
Fluoranthene	1799	1000	1,060	106.0
Fluorene	1799	1000	1,022	102.2

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Run	CCV		Percent Recovery
	Batch Number	True Conc.	Conc. Found	
Indeno (1,2,3-cd)pyrene	1799	1000	1,041	104.1
Naphthalene	1799	1000	928	92.8
Phenanthrene	1799	1000	1,037	103.7
Pyrene	1799	1000	1,024	102.4
Surr: p-Terphenyl	1799	1000	999	99.9
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1800	1000	994	99.4
Acenaphthylene	1800	1000	945	94.5
Anthracene	1800	1000	1,083	108.3
Benzo (a) anthracene	1800	1000	1,036	103.6
Benzo (b) fluoranthene	1800	1000	982	98.2
Benzo (k) fluoranthene	1800	1000	1,045	104.5
Benzo (a) pyrene	1800	1000	964	96.4
Benzo (ghi) perylene	1800	1000	1,051	105.1
Chrysene	1800	1000	1,059	105.9
Dibenzo (a, h) anthracene	1800	1000	1,022	102.2
Fluoranthene	1800	1000	1,069	106.9
Fluorene	1800	1000	989	98.9
Indeno (1,2,3-cd)pyrene	1800	1000	935	93.5
Naphthalene	1800	1000	1,023	102.3
Phenanthrene	1800	1000	1,072	107.2
Pyrene	1800	1000	1,010	101.0
Surr: p-Terphenyl	1800	1000	1,007	100.7
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1800	1000	1,089	108.9
Acenaphthylene	1800	1000	948	94.8
Anthracene	1800	1000	1,115	111.5
Benzo (a) anthracene	1800	1000	1,035	103.5
Benzo (b) fluoranthene	1800	1000	989	98.9
Benzo (k) fluoranthene	1800	1000	979	97.9
Benzo (a) pyrene	1800	1000	953	95.3
Benzo (ghi) perylene	1800	1000	985	98.5
Chrysene	1800	1000	1,067	106.7
Dibenzo (a, h) anthracene	1800	1000	1,030	103.0

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
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Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Fluoranthene	1800	1000	1,018	101.8
Fluorene	1800	1000	1,038	103.8
Indeno(1,2,3-cd)pyrene	1800	1000	999	99.9
Naphthalene	1800	1000	968	96.8
Phenanthrene	1800	1000	1,066	106.6
Pyrene	1800	1000	1,037	103.7
Surr: p-Terphenyl	1800	1000	972	97.2
PNA CMFDS - 8310 NONAQUEOUS				
Acenaphthene	1800	1000	1,023	102.3
Acenaphthylene	1800	1000	902	90.2
Anthracene	1800	1000	1,242	124.2
Benzo(a)anthracene	1800	1000	1,060	106.0
Benzo(b)fluoranthene	1800	1000	1,004	100.4
Benzo(k)fluoranthene	1800	1000	1,016	101.6
Benzo(a)pyrene	1800	1000	916	91.6
Benzo(ghi)perylene	1800	1000	934	93.4
Chrysene	1800	1000	1,059	105.9
Dibenzo(a,h)anthracene	1800	1000	999	99.9
Fluoranthene	1800	1000	1,074	107.4
Fluorene	1800	1000	995	99.5
Indeno(1,2,3-cd)pyrene	1800	1000	1,014	101.4
Naphthalene	1800	1000	979	97.9
Phenanthrene	1800	1000	1,075	107.5
Pyrene	1800	1000	1,037	103.7
Surr: p-Terphenyl	1800	1000	1,036	103.6
PNA CMFDS - 8310 NONAQUEOUS				
Acenaphthene	1801	5000	4,833	96.7
Acenaphthylene	1801	5000	5,150	103.0
Anthracene	1801	5000	5,145	102.9
Benzo(a)anthracene	1801	5000	5,172	103.4
Benzo(b)fluoranthene	1801	5000	4,878	97.6
Benzo(k)fluoranthene	1801	5000	4,863	97.3
Benzo(a)pyrene	1801	5000	4,929	98.6
Benzo(ghi)perylene	1801	5000	5,036	100.7

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Chrysene	1801	5000	5,105	102.1
Dibenzo (a,h) anthracene	1801	5000	4,990	99.8
Fluoranthene	1801	5000	5,039	100.8
Fluorene	1801	5000	4,948	99.0
Indeno (1,2,3-cd) pyrene	1801	5000	5,047	100.9
Naphthalene	1801	5000	4,969	99.4
Phenanthrene	1801	5000	5,082	101.6
Pyrene	1801	5000	4,967	99.3
Surr: p-Terphenyl	1801	5000	4,904	98.1
PNA COMPS - 8310 NONAQUEOUS				
Acenaphthene	1801	5000	4,846	96.9
Acenaphthylene	1801	5000	5,164	103.3
Anthracene	1801	5000	5,211	104.2
Benzo (a) anthracene	1801	5000	5,182	103.6
Benzo (b) fluoranthene	1801	5000	5,104	102.1
Benzo (k) fluoranthene	1801	5000	4,882	97.6
<del>Benzo (a) pyrene</del>	<del>1801</del>	<del>5000</del>	<del>5,015</del>	<del>100.3</del>
Benzo (ghi) perylene	1801	5000	5,129	102.6
Chrysene	1801	5000	5,183	103.7
Dibenzo (a,h) anthracene	1801	5000	5,027	100.5
Fluoranthene	1801	5000	5,072	101.4
Fluorene	1801	5000	5,024	100.5
Indeno (1,2,3-cd) pyrene	1801	5000	5,146	102.9
Naphthalene	1801	5000	4,673	93.5
Phenanthrene	1801	5000	5,125	102.5
Pyrene	1801	5000	4,974	99.5
Surr: p-Terphenyl	1801	5000	4,904	98.1
PNA COMPS - 8310 NONAQUEOUS				
Acenaphthene	1801	5000	4,787	95.7
Acenaphthylene	1801	5000	5,149	103.0
Anthracene	1801	5000	5,220	104.4
Benzo (a) anthracene	1801	5000	5,175	103.5
Benzo (b) fluoranthene	1801	5000	4,950	99.0
Benzo (k) fluoranthene	1801	5000	4,896	97.9

CCV - Continuing Calibration Verification





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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Benzo (a) pyrene	1801	5000	4,928	98.6
Benzo (ghi) perylene	1801	5000	5,116	102.3
Chrysene	1801	5000	5,113	102.3
Dibenzo (a,h) anthracene	1801	5000	4,998	100.0
Fluoranthene	1801	5000	5,069	101.4
Fluorene	1801	5000	5,044	100.9
Indeno (1,2,3-cd) pyrene	1801	5000	5,048	101.0
Naphthalene	1801	5000	4,625	92.5
Phenanthrene	1801	5000	5,090	101.8
Pyrene	1801	5000	4,957	99.1
Surr: p-Terphenyl	1801	5000	4,915	98.3
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthylene	1804	5000	5,042	100.8
Anthracene	1804	5000	5,102	102.0
Chrysene	1804	5000	5,054	101.1
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthylene	1804	5000	5,078	101.6
Anthracene	1804	5000	5,173	103.5
Chrysene	1804	5000	5,154	103.1
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthylene	1804	5000	5,079	101.6
Anthracene	1804	5000	5,175	103.5
Chrysene	1804	5000	5,087	101.7
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthylene	1804	5000	5,042	100.8
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1806	5000	4,746	94.9
Acenaphthylene	1806	5000	5,003	100.1
Anthracene	1806	5000	5,091	101.8
Benzo (a) anthracene	1806	5000	5,047	100.9
Benzo (b) fluoranthene	1806	5000	4,746	94.9
Benzo (k) fluoranthene	1806	5000	4,747	94.9

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
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10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Benzo (a) pyrene	1806	5000	4,636	92.7
Benzo (ghi) perylene	1806	5000	4,944	98.9
Chrysene	1806	5000	4,978	99.6
Dibenzo (a, h) anthracene	1806	5000	4,905	98.1
Fluoranthene	1806	5000	4,885	97.7
Fluorene	1806	5000	4,864	97.3
Indeno (1, 2, 3-cd) pyrene	1806	5000	4,972	99.4
Naphthalene	1806	5000	4,630	92.6
Phenanthrene	1806	5000	4,992	99.8
Pyrene	1806	5000	4,820	96.4
Surr: p-Terphenyl	1806	5000	4,774	95.5
PNA COMPS - 8310 NONAQUEOUS				
Acenaphthene	1806	5000	4,818	96.4
Acenaphthylene	1806	5000	5,102	102.0
Anthracene	1806	5000	4,207	84.2
Benzo (a) anthracene	1806	5000	5,163	103.3
Benzo (b) fluoranthene	1806	5000	4,958	99.2
Benzo (k) fluoranthene	1806	5000	4,873	97.5
Benzo (a) pyrene	1806	5000	4,834	96.7
Benzo (ghi) perylene	1806	5000	5,081	101.6
Chrysene	1806	5000	5,111	102.2
Dibenzo (a, h) anthracene	1806	5000	4,987	99.7
Fluoranthene	1806	5000	5,020	100.4
Fluorene	1806	5000	4,998	100.0
Indeno (1, 2, 3-cd) pyrene	1806	5000	5,098	102.0
Naphthalene	1806	5000	4,666	93.3
Phenanthrene	1806	5000	5,103	102.1
Pyrene	1806	5000	4,949	99.0
Surr: p-Terphenyl	1806	5000	4,909	98.2
PNA COMPS - 8310 NONAQUEOUS				
Acenaphthene	1806	5000	4,952	99.0
Acenaphthylene	1806	5000	5,142	102.8
Anthracene	1806	5000	5,255	105.1
Benzo (a) anthracene	1806	5000	5,152	103.0

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
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10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Benzo (b) fluoranthene	1806	5000	4,932	98.6
Benzo (k) fluoranthene	1806	5000	5,183	103.7
Benzo (a) pyrene	1806	5000	4,816	96.3
Benzo (ghi) perylene	1806	5000	5,244	104.9
Chrysene	1806	5000	5,144	102.9
Dibenzo (a, h) anthracene	1806	5000	5,048	101.0
Fluoranthene	1806	5000	5,052	101.0
Fluorene	1806	5000	5,081	101.6
Indeno (1, 2, 3-cd) pyrene	1806	5000	5,331	106.6
Naphthalene	1806	5000	4,679	93.6
Phenanthrene	1806	5000	5,139	102.8
Pyrene	1806	5000	4,977	99.5
Surr: p-Terphenyl	1806	5000	4,948	99.0
PNA CMPDS - 8310 NONAQUEOUS				
Chrysene	1808	5000	5,024	100.5
PNA CMPDS - 8310 NONAQUEOUS				
Chrysene	1808	5000	5,093	101.9
PNA CMPDS - 8310 NONAQUEOUS				
Chrysene	1808	5000	5,116	102.3
PCB'S NON-AQUEOUS				
PCB-1016	37	500	498	99.6
PCB-1260	37	500	498	99.6
PCB'S NON-AQUEOUS				
PCB-1016	37	500	500	100.0
PCB-1260	37	500	530	106.0
PCB'S NON-AQUEOUS				
PCB-1016	38	500	527	105.4
PCB-1260	38	500	519	103.8
PCB'S NON-AQUEOUS				
PCB-1016	38	500	514	102.8
PCB-1260	38	500	514	102.8
PCB'S NON-AQUEOUS				
PCB-1016	39	500	489	97.8
PCB-1260	39	500	484	96.8

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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
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10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
PCB'S NON-AQUEOUS				
PCB-1016	39	500	509	101.8
PCB-1260	39	500	497	99.4
PCB'S NON-AQUEOUS				
PCB-1016	43	500	509	101.8
PCB-1260	43	500	497	99.4
PCB'S NON-AQUEOUS				
PCB-1016	43	500	505	101.0
PCB-1260	43	500	480	96.0

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA	217	654	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	218	657	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	220	657	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	221	658	<0.50	mg/Kg	0.50	SW 7060
Barium, ICP	1142	2148	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1143	2148	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1145	2148	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1146	2150	<1.0	mg/Kg	1.0	SW 6010B
Cadmium, ICP	1142	2127	<0.010	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1143	2127	<0.010	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1146	2130	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1145	2135	<0.50	mg/Kg	0.50	SW 6010B
Chromium, ICP	1142	2113	<0.040	mg/Kg	2.0	SW 6010B
Chromium, ICP	1143	2113	<0.040	mg/Kg	2.0	SW 6010B
Chromium, ICP	1146	2116	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1145	2121	<2.0	mg/Kg	2.0	SW 6010B
Lead, ICP	1142	2349	<0.080	mg/Kg	4.0	SW 6010B
Lead, ICP	1143	2349	<0.080	mg/Kg	4.0	SW 6010B
Lead, ICP	1146	2352	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1145	2357	<4.0	mg/Kg	4.0	SW 6010B
Mercury, CVAA	658	761	<0.040	mg/Kg	0.040	SW 7471A
Mercury, CVAA	659	761	<0.040	mg/Kg	0.040	SW 7471A
Mercury, CVAA	660	764	<0.040	mg/Kg	0.040	SW 7471A
Selenium, GFAA	217	539	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	220	546	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	221	544	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	218	546	<0.25	mg/Kg	0.25	SW 7740
Silver, AA	477	564	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	478	564	<2.0	mg/Kg	2.0	SW 7760

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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**QUALITY CONTROL REPORT**

**BLANK ANALYSIS**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Silver, AA	479	564	<2.0	mg/Kg	2.0	SW 7760
UST VOLATILES NON-AQUEOUS						
Benzene		48	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		48	<0.005	mg/Kg	0.005	SW 8260A
Toluene		48	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		48	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		48	89.0	µ	74-132	SW 8260A
Toluene-d8 (Surr)		48	100.0	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		48	108.0	µ	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						
Benzene		49	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		49	<0.005	mg/Kg	0.005	SW 8260A
Toluene		49	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		49	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		49	94.0	µ	74-132	SW 8260A
Toluene-d8 (Surr)		49	99.0	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		49	110.0	µ	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						
Benzene		50	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		50	<0.005	mg/Kg	0.005	SW 8260A
Toluene		50	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		50	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		50	93.0	µ	74-132	SW 8260A
Toluene-d8 (Surr)		50	92.0	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		50	105.0	µ	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						
Benzene		51	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		51	<0.005	mg/Kg	0.005	SW 8260A
Toluene		51	<0.005	mg/Kg	0.005	SW 8260A

**Advisory Control Limits for Blanks:**

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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
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10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Xylenes, Total		51	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		51	90.0	µ	74-132	SW 8260A
Toluene-d8 (Surr)		51	102.0	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		51	109.0	µ	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		52	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		52	<0.005	mg/Kg	0.005	SW 8260A
Toluene		52	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		52	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		52	101.0	µ	74-132	SW 8260A
Toluene-d8 (Surr)		52	98.0	µ	90-134	SW 8260A
4-Bromofluoromethane (Surr)		52	98.0	µ	64-131	SW 8260A
PNA CMPS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	750	1794	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	750	1794	<0.020	mg/Kg	0.020	SW 8310
Anthracene	750	1794	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	750	1794	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	750	1794	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	750	1794	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	750	1794	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	750	1794	<0.040	mg/Kg	0.040	SW 8310
Chrysene	750	1794	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	750	1794	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	750	1794	<0.020	mg/Kg	0.020	SW 8310
Fluorene	750	1794	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	750	1794	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	750	1794	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	750	1794	<0.040	mg/Kg	0.040	SW 8310
Pyrene	750	1794	<0.020	mg/Kg	0.020	SW 8310

#### Advisory Control Limits for Blanks:

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### BLANK ANALYSIS

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10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Surr: p-Terphenyl	750	1794	82.9	µ	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	752	1799	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	752	1799	<0.020	mg/Kg	0.020	SW 8310
Anthracene	752	1799	<0.040	mg/Kg	0.040	SW 8310
Benzo (a) anthracene	752	1799	<0.0026	mg/Kg	0.0026	SW 8310
Benzo (b) fluoranthene	752	1799	<0.0036	mg/Kg	0.0036	SW 8310
Benzo (k) fluoranthene	752	1799	<0.0034	mg/Kg	0.0034	SW 8310
Benzo (a) pyrene	752	1799	<0.0046	mg/Kg	0.0046	SW 8310
Benzo (ghi) perylene	752	1799	<0.040	mg/Kg	0.040	SW 8310
Chrysene	752	1799	<0.03	mg/Kg	0.03	SW 8310
Dibenzo (a, h) anthracene	752	1799	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	752	1799	<0.020	mg/Kg	0.020	SW 8310
Fluorene	752	1799	<0.020	mg/Kg	0.020	SW 8310
Indeno (1, 2, 3-cd) pyrene	752	1799	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	752	1799	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	752	1799	<0.040	mg/Kg	0.040	SW 8310
Pyrene	752	1799	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	752	1799	76.2	µ	43-125	SW 8310
PNA CMPDS - 8310 NONAQUEOUS						SW 8310
Acenaphthene	753	1801	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	753	1801	<0.020	mg/Kg	0.020	SW 8310
Anthracene	753	1801	<0.040	mg/Kg	0.040	SW 8310
Benzo (a) anthracene	753	1801	<0.0026	mg/Kg	0.0026	SW 8310
Benzo (b) fluoranthene	753	1801	<0.0036	mg/Kg	0.0036	SW 8310
Benzo (k) fluoranthene	753	1801	<0.0034	mg/Kg	0.0034	SW 8310
Benzo (a) pyrene	753	1801	<0.0046	mg/Kg	0.0046	SW 8310
Benzo (ghi) perylene	753	1801	<0.040	mg/Kg	0.040	SW 8310
Chrysene	753	1801	<0.03	mg/Kg	0.03	SW 8310

#### Advisory Control Limits for Blanks:

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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
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10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Dibenzo(a,h)anthracene	753	1801	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	753	1801	<0.020	mg/Kg	0.020	SW 8310
Fluorene	753	1801	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	753	1801	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	753	1801	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	753	1801	<0.040	mg/Kg	0.040	SW 8310
Pyrene	753	1801	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	753	1801	80.0	†	43-125	SW 8310
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	364	37	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	364	37	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	364	37	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	364	37	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	364	37	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	364	37	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	364	37	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	364	37	90.0	†	NA	SW 8082
2,4,5,6-TCMX (Surr)	364	37	83.0	†	NA	SW 8082
PCB'S NON-AQUEOUS						SW 8082
PCB-1016	368	38	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	368	38	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	368	38	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	368	38	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	368	38	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	368	38	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	368	38	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	368	38	90.0	†	NA	SW 8082
2,4,5,6-TCMX (Surr)	368	38	85.0	†	NA	SW 8082
PCB'S NON-AQUEOUS						SW 8082

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Prep	Run	Blank	Units	Reporting	Analytical
	Batch	Batch	Analysis			
	Number	Number	Results		Limit	Method
PCB-1016	365	43	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	365	43	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	365	43	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	365	43	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	365	43	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	365	43	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	365	43	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	365	43	75.0	µ	NA	SW 8082
2,4,5,6-TCDF (Surr)	365	43	71.0	µ	NA	SW 8082

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS & Recovery
Arsenic, GFAA	217	654	0.0100	0.0088	88.0
Arsenic, GFAA	218	657	0.0100	0.0083	83.0
Arsenic, GFAA	220	657	0.0100	0.0113	113.0
Arsenic, GFAA	221	658	0.0100	0.0104	104.0
Barium, ICP	1142	2148	5.00	5.33	106.6
Barium, ICP	1143	2148	5.00	4.97	99.4
Barium, ICP	1145	2148	5.00	5.04	100.8
Barium, ICP	1146	2150	5.00	4.99	99.8
Cadmium, ICP	1142	2127	2.50	2.3	92.0
Cadmium, ICP	1143	2127	2.50	2.5	100.0
Cadmium, ICP	1146	2130	2.50	2.33	93.2
Cadmium, ICP	1145	2134	2.50	2.40	96.0
Chromium, ICP	1142	2113	5.00	5.0	100.0
Chromium, ICP	1143	2113	5.00	5.2	104.0
Chromium, ICP	1146	2116	5.00	4.75	95.0
Chromium, ICP	1145	2120	5.00	5.32	106.4
Lead, ICP	1142	2349	5.00	6.2	124.0
Lead, ICP	1143	2349	5.00	5.4	108.0
Lead, ICP	1146	2352	5.00	5.45	109.0
Lead, ICP	1145	2357	5.00	5.80	116.0
Mercury, CVAA	658	761	0.0025	0.00256	102.4
Mercury, CVAA	659	761	0.0020	0.00220	110.0
Mercury, CVAA	660	764	0.0025	0.00267	106.8
Selenium, GFAA	217	539	0.0100	0.0092	92.0
Selenium, GFAA	220	546	0.0100	0.0114	114.0
Selenium, GFAA	221	547	0.0100	0.0083	83.0
Selenium, GFAA	218	546	0.0100	0.0082	82.0
Silver, AA	477	564	0.1	0.096	96.0
Silver, AA	478	564	0.1	0.102	102.0
Silver, AA	479	564	0.1	0.112	112.0

UST VOLATILES NON-AQUEOUS



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**QUALITY CONTROL REPORT**

**LABORATORY CONTROL STANDARD**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Benzene		48	50.0	51.4	102.8
Ethylbenzene		48	50.0	49.7	99.4
Toluene		48	50.0	48.7	97.4
Xylenes, Total		48	150	150	100.0
Dibromofluoromethane (Surr)		48	50.0	49.0	98.0
Toluene-d8 (Surr)		48	50.0	49.5	99.0
4-Bromofluoromethane (Surr)		48	50.0	50.5	101.0
UST VOLATILES NON-AQUEOUS					
Benzene		49	50.0	50.2	100.4
Ethylbenzene		49	50.0	48.6	97.2
Toluene		49	50.0	46.5	93.0
Xylenes, Total		49	150	144	96.0
Dibromofluoromethane (Surr)		49	50.0	50.0	100.0
Toluene-d8 (Surr)		49	50.0	48.0	96.0
4-Bromofluoromethane (Surr)		49	50.0	51.0	102.0
UST VOLATILES NON-AQUEOUS					
Benzene		50	50.0	47.6	95.2
Ethylbenzene		50	50.0	47.8	95.6
Toluene		50	50.0	46.6	93.2
Xylenes, Total		50	150	147	98.0
Dibromofluoromethane (Surr)		50	50.0	47.0	94.0
Toluene-d8 (Surr)		50	50.0	50.0	100.0
4-Bromofluoromethane (Surr)		50	50.0	48.5	97.0
UST VOLATILES NON-AQUEOUS					
Benzene		51	50.0	47.3	94.6
Ethylbenzene		51	50.0	42.5	85.0
Toluene		51	50.0	45.7	91.4
Xylenes, Total		51	150	131	87.3
Dibromofluoromethane (Surr)		51	50.0	51.5	103.0
Toluene-d8 (Surr)		51	50.0	49.0	98.0
4-Bromofluoromethane (Surr)		51	50.0	55.0	110.0



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**QUALITY CONTROL REPORT**

**LABORATORY CONTROL STANDARD**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
<b>UST VOLATILES NON-AQUEOUS</b>					
Benzene		52	50.0	54.3	108.6
Ethylbenzene		52	50.0	51.0	102.0
Toluene		52	50.0	51.0	102.0
Xylenes, Total		52	150	154	102.7
Dibromofluoromethane (Surr)		52	50.0	50.5	101.0
Toluene-d8 (Surr)		52	50.0	49.0	98.0
4-Bromofluoromethane (Surr)		52	50.0	49.0	98.0
<b>PNA CMFDS - 8310 NONAQUEOUS</b>					
Acenaphthene	750	1794	0.033	0.034	103.0
Acenaphthylene	750	1794	0.033	0.030	90.9
Anthracene	750	1794	0.033	0.032	97.0
Benzo(a)anthracene	750	1794	0.033	0.031	93.9
Benzo(b)fluoranthene	750	1794	0.033	0.030	90.9
Benzo(k)fluoranthene	750	1794	0.033	0.029	87.9
Benzo(a)pyrene	750	1794	0.033	0.026	78.8
Benzo(ghi)perylene	750	1794	0.033	0.028	84.8
Chrysene	750	1794	0.033	0.033	100.0
Dibenzo(a,h)anthracene	750	1794	0.033	0.029	87.9
Fluoranthene	750	1794	0.033	0.030	90.9
Fluorene	750	1794	0.033	0.031	93.9
Indeno(1,2,3-cd)pyrene	750	1794	0.033	0.029	87.9
Naphthalene	750	1794	0.033	0.028	84.8
Phenanthrene	750	1794	0.033	0.031	93.9
Pyrene	750	1794	0.033	0.030	90.9
Surr: p-Terphenyl	750	1794	2000	1,756	87.8
<b>PNA CMFDS - 8310 NONAQUEOUS</b>					
Acenaphthene	752	1799	0.033	0.026	78.8
Acenaphthylene	752	1799	0.033	0.027	81.8
Anthracene	752	1799	0.033	0.030	90.9
Benzo(a)anthracene	752	1799	0.033	0.030	90.9



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**QUALITY CONTROL REPORT**

**LABORATORY CONTROL STANDARD**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Benzo (b) fluoranthene	752	1799	0.033	0.029	87.9
Benzo (k) fluoranthene	752	1799	0.033	0.029	87.9
Benzo (a) pyrene	752	1799	0.033	0.028	84.8
Benzo (ghi) perylene	752	1799	0.033	0.029	87.9
Chrysene	752	1799	0.033	0.030	90.9
Dibenzo (a,h) anthracene	752	1799	0.033	0.027	81.8
Fluoranthene	752	1799	0.033	0.029	87.9
Fluorene	752	1799	0.033	0.028	84.8
Indeno (1,2,3-cd) pyrene	752	1799	0.033	0.029	87.9
Naphthalene	752	1799	0.033	0.025	75.8
Phenanthrene	752	1799	0.033	0.030	90.9
Pyrene	752	1799	0.033	0.029	87.9
Surr: p-Terphenyl	752	1799	2000	1,590	79.5
FNA CMPS - 8310 NONAQUEOUS					
Acenaphthene	753	1801	0.033	0.028	84.8
Acenaphthylene	753	1801	0.033	0.033	100.0
Anthracene	753	1801	0.033	0.030	90.9
Benzo (a) anthracene	753	1801	0.033	0.029	87.9
Benzo (b) fluoranthene	753	1801	0.033	0.028	84.8
Benzo (k) fluoranthene	753	1801	0.033	0.027	81.8
Benzo (a) pyrene	753	1801	0.033	0.026	78.8
Benzo (ghi) perylene	753	1801	0.033	0.029	87.9
Chrysene	753	1801	0.033	0.029	87.9
Dibenzo (a,h) anthracene	753	1801	0.033	0.028	84.8
Fluoranthene	753	1801	0.033	0.029	87.9
Fluorene	753	1801	0.033	0.029	87.9
Indeno (1,2,3-cd) pyrene	753	1801	0.033	0.028	84.8
Naphthalene	753	1801	0.033	0.026	78.8
Phenanthrene	753	1801	0.033	0.030	90.9
Pyrene	753	1801	0.033	0.028	84.8
Surr: p-Terphenyl	753	1801	2000	1,651	82.6



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS & Recovery
PCB'S NON-AQUEOUS					
PCB-1016	364	37	500	477	95.4
PCB-1260	364	37	500	499	99.8
Decachlorobiphenyl (Surr)	364	37	100	93	93.0
2,4,5,6-TCMX (Surr)	364	37	100	87	87.0
PCB'S NON-AQUEOUS					
PCB-1016	368	38	500	521	104.2
PCB-1260	368	38	500	535	107.0
Decachlorobiphenyl (Surr)	368	38	100	99	99.0
2,4,5,6-TCMX (Surr)	368	38	100	90	90.0
PCB'S NON-AQUEOUS					
PCB-1016	365	43	500	490	98.0
PCB-1260	365	43	500	494	98.8
Decachlorobiphenyl (Surr)	365	43	100	95	95.0
2,4,5,6-TCMX (Surr)	365	43	100	88	88.0



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**QUALITY CONTROL REPORT**

**DUPLICATES**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

10/27/1998

NET Job Number: 98.13083

Mr. Wei-Lin Feng

Analyte	Prep	Run	Original Analysis	Duplicate Analysis	Units	RPD
	Batch Number	Batch Number				
pH, Non-Aqueous		166	7.85	7.76	units	1.2
pH, Non-Aqueous		167	9.02	8.92	units	1.1
pH, Non-Aqueous		168	8.52	8.50	units	0.2
pH, Non-Aqueous		169	8.21	8.21	units	0.0
Solids, Total		2482	81.6	81.9	g	0.4
Solids, Total		2482	92.6	92.1	g	0.5
Solids, Total		2488	92.6	92.1	g	0.5
Solids, Total		2488	94.7	94.3	g	0.4
Solids, Total		2490	94.5	94.6	g	0.1
Solids, Total		2490	82.6	81.9	g	0.9
Arsenic, GFAA	218	5	0.362	0.362	mg/L	0.0
Arsenic, GFAA	218	6	0.466	0.485	mg/L	4.0
Arsenic, GFAA	218	7	0.330	0.307	mg/L	7.2
Arsenic, GFAA	218	7	0.236	0.278	mg/L	16.3
Arsenic, GFAA	218	7	0.101	0.101	mg/L	0.0

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.





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NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
- mg/L : Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
- ug/g : Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
- ug/L : Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
- ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
- TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
- Surrogate : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
- % : Percent; To convert ppm to %, divide the result by 10,000.  
To convert % to ppm, multiply the result by 10,000.
- ICP : Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
- AA : Indicates analysis was performed using Atomic Absorption Spectroscopy.
- GFAA : Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
- PQL : Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

- (1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
- (2) ASTM "American Society for Testing Materials"
- (3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
- (4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
- (5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- (6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.



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- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999; see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.





NATIONAL ENVIRONMENTAL TESTING, INC.

**CHAIN OF CUSTODY RECORD**

COMPANY EMSR Corporation  
 ADDRESS 740 Pasquonelli, Westmont  
 PHONE 630-887-0700 FAX 8630-850-5307  
 PROJECT NAME/LOCATION Cemex - PowerGen  
 PROJECT NUMBER 1801-023-510  
 PROJECT MANAGER Weilin Feng

REPORT TO: Weilin Feng  
 INVOICE TO:  
 P.O. NO.  
 NET QUOTE NO.

SAMPLED BY: Lisa Rutkowski  
 (PRINT NAME) [Signature]  
 SIGNATURE

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers					ANALYSES	COMMENTS	
						HCl	NaOH	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	OTHER			PF (9045)
10/6/98	9:30	B-1	S	X									
	10:30	B-4											
	11:45	B-5											
	13:45	B-6											
	14:15	B-9											
	14:35	B-10											
	14:50	B-11											
	15:15	B-12											
	15:40	B-13											
	16:40	B-14											
	13:15	B-18											
	11:15	B-35											
	16:10	B-36											

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO  
 FIELD FILTERED? YES / NO

TEMPERATURE UPON RECEIPT: 2.5°C W/ T See  
 Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA  
 I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS

RECEIVED BY: [Signature] DATE: 10/8/98 TIME: 1700

RECEIVED FOR NET BY: [Signature]

METHOD OF SHIPMENT: Net

REMARKS:





NATIONAL ENVIRONMENTAL TESTING, INC.

**CHAIN OF CUSTODY RECORD**

COMPANY ENSR Corporation  
 ADDRESS 740 Pasquonelli, Westmont  
 PHONE (202) 887-1700 FAX (301) 850-5307  
 PROJECT NAME/LOCATION Comed - Powertron  
 PROJECT NUMBER 1801-023-S10  
 PROJECT MANAGER Wei-Lin Feng

REPORT TO: Wei-Lin Feng  
 INVOICE TO:  
 P.O. NO.  
 NET QUOTE NO.

SAMPLED BY Lisa Rutkowski SIGNATURE [Signature]  
 (PRINT NAME) SIGNATURE

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	HQ	# and Type of Containers					COMMENTS
							H <sub>2</sub> O <sub>2</sub>	HNO <sub>3</sub>	NaOH	OTHER	Other	
1/7	730	B-15	SA									
	745	B-16										
	815	B-17										
	950	B-19										
	1020	B-21										
	1040	B-22										
	1115	B-23										
	1300	B-25										
	1330	B-26										
	1420	B-27										
	1445	B-30										
	1520	B-31										
	1545	B-32										
	1620	B-33										
	1640	B-34										

**ANALYSES**

X	PH (905)
X	PNH (8310)
X	BTEX (8310)
X	PCB (8081)
X	PCRA metals (Total)

To assist us in selecting the proper method  
 Is this work being conducted for regulatory compliance monitoring? Yes \_\_\_ No \_\_\_  
 Is this work being conducted for regulatory enforcement action? Yes \_\_\_ No \_\_\_  
 Which regulations apply: RCRA \_\_\_ NPDES Wastewater \_\_\_  
 LIST \_\_\_ Drinking Water \_\_\_  
 Other \_\_\_ None \_\_\_

CONDITION OF SAMPLE: BOTTLES INTACT? YES (NO) FIELD FILTERED? YES (NO)  
 SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA \_\_\_\_\_  
 I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS \_\_\_\_\_  
 TEMPERATURE UPON RECEIPT: 25.4/26.2  
 Bottles supplied by NET? YES (NO)

RELINQUISHED BY: [Signature] DATE: 10/18/14 TIME: 1400  
 RECEIVED BY: [Signature] DATE: 10/18/14 TIME: 1700  
 METHOD OF SHIPMENT: Net  
 REMARKS:





**NATIONAL  
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Bartlett Division  
850 West Bartlett Rd.  
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Fax: (815) 874-5622  
(800) 807-2877

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

IEPA Cert. No.: 100221  
WDNR Cert. No.: 999447130  
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: ComEd-Powerton; 1801-023-510

Sample Number	Sample Description	Date Taken	Date Received
498643	Sed-1	10/14/1998	10/16/1998
498644	Sed-2	10/14/1998	10/16/1998
498645	Sed-3	10/14/1998	10/16/1998
498646	Sed-4	10/14/1998	10/16/1998
498647	Sed-5	10/14/1998	10/16/1998
498648	Sed-6	10/14/1998	10/16/1998
498649	Sed-7	10/14/1998	10/16/1998
498650	Sed-8	10/15/1998	10/16/1998
498651	Sed-9	10/15/1998	10/16/1998
498652	Sed-10	10/15/1998	10/16/1998
498653	Sed-11	10/15/1998	10/16/1998
498654	Sed-12	10/15/1998	10/16/1998

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson  
Project Manager





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498643  
NET Job No. : 98.13465

Sample Description: Sed-1  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.44	units	10/23/1998	0.10	nwg	180	SW 9045B
Solids, Total	49.4	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	5.1	mg/kg dw	11/03/1998	1.0	mhp	230 669	SW 7060
Barium, ICP	2,430	mg/kg dw	10/31/1998	2.0	jtt	1160 2175	SW 6010B
Cadmium, ICP	2.2	mg/kg dw	10/31/1998	1.0	jtt	1160 2161	SW 6010B
Chromium, ICP	26	mg/kg dw	10/31/1998	4.0	jtt	1160 2146	SW 6010B
Lead, ICP	59	mg/kg dw	11/03/1998	8.1	jtt	1160 2385	SW 6010B
Mercury, CVAA	<0.081	mg/kg dw	10/29/1998	0.081	jtt	664 768	SW 7471A
Selenium, GFAA	<0.51	mg/kg dw	11/03/1998	0.51	mhp	230 556	SW 7740
Silver, AA	<4.0	mg/kg dw	10/30/1998	4.0	sep	487 568	SW 7760
Prep, TPH 8015M - NONAQUEOUS TPH MODIFIED 8015	extracted		10/21/1998		mmv	240	SW 8015H
TPH as Gas	<100	mg/kg dw	11/05/1998	100	out	240 487	SW 8015H
TPH as Diesel	<100	mg/kg dw	11/05/1998	100	out	240 487	SW 8015H
TPH as Oil	<100	mg/kg dw	11/05/1998	100	out	240 487	SW 8015H
N-octacosane (TPH surr)	112.0	%	11/05/1998		out	240 487	SW 8015H
UST VOLATILES NON-AQUEOUS							
Benzene	<0.01	mg/kg dw	10/28/1998	0.01	mjo	61	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	10/28/1998	0.01	mjo	61	SW 8260A
Toluene	<0.01	mg/kg dw	10/28/1998	0.01	mjo	61	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	10/28/1998	0.01	mjo	61	SW 8260A
Dibromofluoromethane (Surr)	99.2	%	10/28/1998	81-129	mjo	61	SW 8260A
Toluene-d8 (Surr)	83.8	%	10/28/1998	74-129	mjo	61	SW 8260A
4-Bromofluoromethane (Surr)	88.8	%	10/28/1998	70-130	mjo	61	SW 8260A
Prep, 8310 PHAS NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498643  
NET Job No.: 98.13465

Sample Description: Sed-1  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.40	mg/kg dw	11/03/1998	0.040	kdw	764 1824	SW 8310
Acenaphthylene	<0.40	mg/kg dw	11/03/1998	0.040	kdw	764 1824	SW 8310
Anthracene	<0.81	mg/kg dw	11/03/1998	0.081	kdw	764 1824	SW 8310
Benzo(a)anthracene	<6.3	mg/kg dw	11/03/1998	0.0053	kdw	764 1824	SW 8310
Benzo(b)fluoranthene	<0.11	mg/kg dw	11/03/1998	0.0073	kdw	764 1824	SW 8310
Benzo(k)fluoranthene	<0.12	mg/kg dw	11/03/1998	0.0069	kdw	764 1824	SW 8310
Benzo(a)pyrene	<0.26	mg/kg dw	11/03/1998	0.0093	kdw	764 1824	SW 8310
Benzo(ghi)perylene	<0.81	mg/kg dw	11/03/1998	0.081	kdw	764 1824	SW 8310
Chrysene	<0.6	mg/kg dw	11/03/1998	0.06	kdw	764 1824	SW 8310
Dibenzo(a,h)anthracene	<0.16	mg/kg dw	11/03/1998	0.01	kdw	764 1824	SW 8310
Fluoranthene	0.59	mg/kg dw	11/03/1998	0.040	kdw	764 1824	SW 8310
Fluorene	<0.40	mg/kg dw	11/03/1998	0.040	kdw	764 1824	SW 8310
Indeno(1,2,3-cd)pyrene	<0.17	mg/kg dw	11/03/1998	0.017	kdw	764 1824	SW 8310
Naphthalene	<0.51	mg/kg dw	11/03/1998	0.051	kdw	764 1824	SW 8310
Phenanthrene	<0.81	mg/kg dw	11/03/1998	0.081	kdw	764 1824	SW 8310
Pyrene	<0.40	mg/kg dw	11/03/1998	0.040	kdw	764 1824	SW 8310
Surr: p-Terphenyl	Masked		11/03/1998	43-125	kdw	764 1824	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.081	mg/kg dw	11/03/1998	0.081	greg	374 49	SW 8082
PCB-1221	<0.081	mg/kg dw	11/03/1998	0.081	greg	374 49	SW 8082
PCB-1232	<0.081	mg/kg dw	11/03/1998	0.081	greg	374 49	SW 8082
PCB-1242	<0.081	mg/kg dw	11/03/1998	0.081	greg	374 49	SW 8082
PCB-1248	<0.081	mg/kg dw	11/03/1998	0.081	greg	374 49	SW 8082
PCB-1254	<0.081	mg/kg dw	11/03/1998	0.081	greg	374 49	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498643

NET Job No.: 98.13465

Sample Description: Sed-1  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.081	mg/kg dw	11/03/1998	0.081	greg	374 49	SW 8082
Decachlorobiphenyl (Surr)	73.6	%	11/03/1998	NA	greg	374 49	SW 8082
2,4,5,6-TCMX (Surr)	70.4	%	11/03/1998	NA	greg	374 49	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498644  
NET Job No.: 98.13465

Sample Description: Sed-2  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.99	units	10/23/1998	0.10	nwg	181	SW 9045B
Solids, Total	35.7	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	12	mg/kg dw	11/03/1998	1.4	mhp	230 669	SW 7060
Barium, ICP	2,070	mg/kg dw	10/31/1998	2.8	jtt	1160 2175	SW 6010B
Cadmium, ICP	4.5	mg/kg dw	10/31/1998	1.4	jtt	1160 2161	SW 6010B
Chromium, ICP	42	mg/kg dw	10/31/1998	5.6	jtt	1160 2146	SW 6010B
Lead, ICP	110	mg/kg dw	11/03/1998	11	jtt	1160 2385	SW 6010B
Mercury, CVAA	<0.11	mg/kg dw	10/29/1998	0.11	jtt	664 768	SW 7471A
Selenium, GFAA	1.4	mg/kg dw	11/03/1998	0.70	mhp	230 556	SW 7740
Silver, AA	<5.6	mg/kg dw	10/30/1998	5.6	sep	487 568	SW 7760
<hr/>							
<del>Prep, TPH-8015M NONAQUEOUS</del>	<del>extracted</del>		<del>10/21/1998</del>		<del>mmv</del>	<del>240</del>	<del>SW-8015M</del>
TPH MODIFIED 8015							
TPH as Gas	<140	mg/kg dw	11/05/1998	140	out	240 487	SW 8015M
TPH as Diesel	<140	mg/kg dw	11/05/1998	140	out	240 487	SW 8015M
TPH as Oil	15,300	PT mg/kg dw	11/05/1998	140	out	240 487	SW 8015M
N-octacosane (TPH surr)	40.0	%	11/05/1998		out	240 487	SW 8015M
<hr/>							
UST VOLATILES NON-AQUEOUS							
Benzene	<0.01	mg/kg dw	10/23/1998	0.01	jap	53	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	10/23/1998	0.01	jap	53	SW 8260A
Toluene	<0.01	mg/kg dw	10/23/1998	0.01	jap	53	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	10/23/1998	0.01	jap	53	SW 8260A
Dibromofluoromethane (Surr)	99.6	%	10/23/1998	81-129	jap	53	SW 8260A
Toluene-d8 (Surr)	109.0	%	10/23/1998	74-129	jap	53	SW 8260A
4-Bromofluoromethane (Surr)	108.0	%	10/23/1998	70-130	jap	53	SW 8260A
<hr/>							
Prep, 8310 PHAs NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C

PT: Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498644  
NET Job No.: 98.13465

Sample Description: Sed-2  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.56	mg/kg dw	11/04/1998	0.056	keh	764 1829	SW 8310
Acenaphthylene	<0.56	mg/kg dw	11/04/1998	0.056	keh	764 1829	SW 8310
Anthracene	<1.1	mg/kg dw	11/04/1998	0.11	keh	764 1829	SW 8310
Benzo(a)anthracene	<3.1	mg/kg dw	11/04/1998	0.0073	keh	764 1829	SW 8310
Benzo(b)fluoranthene	0.62	mg/kg dw	11/04/1998	0.010	keh	764 1829	SW 8310
Benzo(k)fluoranthene	0.45	mg/kg dw	11/04/1998	0.0095	keh	764 1829	SW 8310
Benzo(a)pyrene	0.81	mg/kg dw	11/04/1998	0.013	keh	764 1829	SW 8310
Benzo(ghi)perylene	<1.1	mg/kg dw	11/04/1998	0.11	keh	764 1829	SW 8310
Chrysene	0.95	mg/kg dw	11/06/1998	0.08	keh	764 1831	SW 8310
Dibenzo(a,h)anthracene	<0.2	mg/kg dw	11/04/1998	0.02	keh	764 1829	SW 8310
Fluoranthene	1.9	mg/kg dw	11/04/1998	0.056	keh	764 1829	SW 8310
Fluorene	<0.56	mg/kg dw	11/04/1998	0.056	keh	764 1829	SW 8310
Indeno(1,2,3-cd)pyrene	0.59	mg/kg dw	11/04/1998	0.024	keh	764 1829	SW 8310
Naphthalene	<0.70	mg/kg dw	11/04/1998	0.070	keh	764 1829	SW 8310
Phenanthrene	<1.1	mg/kg dw	11/04/1998	0.11	keh	764 1829	SW 8310
Pyrene	1.7	mg/kg dw	11/04/1998	0.056	keh	764 1829	SW 8310
Surr: p-Terphenyl	Masked		11/04/1998	43-125	keh	764 1829	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.11	mg/kg dw	11/03/1998	0.11	greg	374 49	SW 8082
PCB-1221	<0.11	mg/kg dw	11/03/1998	0.11	greg	374 49	SW 8082
PCB-1232	<0.11	mg/kg dw	11/03/1998	0.11	greg	374 49	SW 8082
PCB-1242	<0.11	mg/kg dw	11/03/1998	0.11	greg	374 49	SW 8082
PCB-1248	<0.11	mg/kg dw	11/03/1998	0.11	greg	374 49	SW 8082
PCB-1254	<0.11	mg/kg dw	11/03/1998	0.11	greg	374 49	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498644

NET Job No.: 98.13465

Sample Description: Sed-2  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.11	mg/kg dw	11/03/1998	0.11	greg	374 49	SW 8082
Decachlorobiphenyl (Surr)	44.2	%	11/03/1998	NA	greg	374 49	SW 8082
2,4,5,6-TCMX (Surr)	82.7	%	11/03/1998	NA	greg	374 49	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498645  
NET Job No.: 98.13465

Sample Description: Sed-3  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 11:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.11	units	10/23/1998	0.10	nwg	181	SW 9045B
Solids, Total	45.4	%	11/02/1998	0.1	efw	2511	SH 2540
Arsenic, GFAA	7.0	mg/kg dw	11/03/1998	1.1	mhp	230 669	SW 7060
Barium, ICP	4,850	mg/kg dw	10/31/1998	2.2	jtt	1160 2175	SW 6010B
Cadmium, ICP	1.4	mg/kg dw	10/31/1998	1.1	jtt	1160 2161	SW 6010B
Chromium, ICP	33	mg/kg dw	10/31/1998	4.4	jtt	1160 2146	SW 6010B
Lead, ICP	40	mg/kg dw	11/03/1998	8.8	jtt	1160 2385	SW 6010B
Mercury, CVAAs	<0.088	mg/kg dw	10/29/1998	0.088	jtt	664 768	SW 7471A
Selenium, GFAA	<0.55	mg/kg dw	11/03/1998	0.55	mhp	230 556	SW 7740
Silver, AA	<4.4	mg/kg dw	10/30/1998	4.4	sep	487 568	SW 7760
Prep, TPH 8015H - NONAQUEOUS TPH MODIFIED 8015	extracted		10/21/1998		mmv	240	SW 8015H
TPH as Gas	<110	mg/kg dw	11/05/1998	110	out	240 487	SW 8015H
TPH as Diesel	<110	mg/kg dw	11/05/1998	110	out	240 487	SW 8015H
TPH as Oil	<110	mg/kg dw	11/05/1998	110	out	240 487	SW 8015H
N-octacosane (TPH surr)	134.0	%	11/05/1998		out	240 487	SW 8015H
UST VOLATILES NON-AQUEOUS							
Benzene	<0.01	mg/kg dw	10/23/1998	0.01	jap	53	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	10/23/1998	0.01	jap	53	SW 8260A
Toluene	<0.01	mg/kg dw	10/23/1998	0.01	jap	53	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	10/23/1998	0.01	jap	53	SW 8260A
Dibromofluoromethane (Surr)	96.2	%	10/23/1998	81-129	jap	53	SW 8260A
Toluene-d8 (Surr)	113.4	%	10/23/1998	74-129	jap	53	SW 8260A
4-Bromofluoromethane (Surr)	103.6	%	10/23/1998	70-130	jap	53	SW 8260A
Prep, 8310 PNAs NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498645

NET Job No.: 98.13465

Sample Description: Sed-3  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 11:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.044	mg/kg dw	11/02/1998	0.044	kdw	764 1826	SW 8310
Acenaphthylene	<0.044	mg/kg dw	11/02/1998	0.044	kdw	764 1826	SW 8310
Anthracene	<0.088	mg/kg dw	11/02/1998	0.088	kdw	764 1826	SW 8310
Benzo(a)anthracene	<0.059	MX mg/kg dw	11/02/1998	0.0057	kdw	764 1826	SW 8310
Benzo(b)fluoranthene	<0.0079	mg/kg dw	11/02/1998	0.0079	kdw	764 1826	SW 8310
Benzo(k)fluoranthene	<0.0075	mg/kg dw	11/02/1998	0.0075	kdw	764 1826	SW 8310
Benzo(a)pyrene	<0.010	mg/kg dw	11/02/1998	0.010	kdw	764 1826	SW 8310
Benzo(ghi)perylene	<0.088	mg/kg dw	11/02/1998	0.088	kdw	764 1826	SW 8310
Chrysene	<0.07	mg/kg dw	11/02/1998	0.07	kdw	764 1826	SW 8310
Dibenzo(a,h)anthracene	<0.01	mg/kg dw	11/02/1998	0.01	kdw	764 1826	SW 8310
Fluoranthene	0.051	mg/kg dw	11/02/1998	0.044	kdw	764 1826	SW 8310
Fluorene	<0.15	MX mg/kg dw	11/02/1998	0.044	kdw	764 1826	SW 8310
Indeno(1,2,3-cd)pyrene	<0.019	mg/kg dw	11/02/1998	0.019	kdw	764 1826	SW 8310
Naphthalene	<0.055	mg/kg dw	11/02/1998	0.055	kdw	764 1826	SW 8310
Phenanthrene	<0.088	mg/kg dw	11/02/1998	0.088	kdw	764 1826	SW 8310
Pyrene	0.046	mg/kg dw	11/02/1998	0.044	kdw	764 1826	SW 8310
Surr: p-Terphenyl	51.7	%	11/02/1998	43-125	kdw	764 1826	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.088	mg/kg dw	11/03/1998	0.088	greg	374 49	SW 8082
PCB-1221	<0.088	mg/kg dw	11/03/1998	0.088	greg	374 49	SW 8082
PCB-1232	<0.088	mg/kg dw	11/03/1998	0.088	greg	374 49	SW 8082
PCB-1242	<0.088	mg/kg dw	11/03/1998	0.088	greg	374 49	SW 8082
PCB-1248	<0.088	mg/kg dw	11/03/1998	0.088	greg	374 49	SW 8082
PCB-1254	<0.088	mg/kg dw	11/03/1998	0.088	greg	374 49	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498645  
NET Job No.: 98.13465

Sample Description: Sed-3  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 11:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.088	mg/kg dw	11/03/1998	0.088	greg	374 49	SW 8082
Decachlorobiphenyl (Surr)	79.5	%	11/03/1998	NA	greg	374 49	SW 8082
2,4,5,6-TCMX (Surr)	87.2	%	11/03/1998	NA	greg	374 49	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498646  
NET Job No.: 98.13465

Sample Description: Sed-4  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method POL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.21	units	10/23/1998	0.10	nwg	181	SW 9045B
Solids, Total	38.8	%	11/02/1998	0.1	efw	2511	SW 2540
Arsenic, GFAA	17	mg/kg dw	11/03/1998	1.3	mhp	230 669	SW 7060
Barium, ICP	2,840	mg/kg dw	10/31/1998	2.6	jtc	1160 2175	SW 6010B
Cadmium, ICP	1.8	mg/kg dw	10/31/1998	1.3	jtc	1160 2161	SW 6010B
Chromium, ICP	41	mg/kg dw	10/31/1998	5.2	jtc	1160 2146	SW 6010B
Lead, ICP	44	mg/kg dw	11/03/1998	10	jtc	1160 2385	SW 6010B
Mercury, CVAA	0.13	mg/kg dw	10/29/1998	0.10	jtc	664 768	SW 7471A
Selenium, GFAA	<0.64	mg/kg dw	11/03/1998	0.64	mhp	230 556	SW 7740
Silver, AA	<5.2	mg/kg dw	10/30/1998	5.2	sep	487 568	SW 7760
<hr/>							
Prep, TPH 8015H - NONAQUEOUS	extracted		10/28/1998		emp	243	SW 8015H
<hr/>							
TPH MODIFIED 8015							
TPH as Gas	<130	mg/kg dw	11/05/1998	130	out	243 487	SW 8015H
TPH as Diesel	<130	mg/kg dw	11/05/1998	130	out	243 487	SW 8015H
TPH as Oil	<130	mg/kg dw	11/05/1998	130	out	243 487	SW 8015H
N-octacosane (TPH surr)	119.0	%	11/05/1998		out	243 487	SW 8015H
<hr/>							
UST VOLATILES NON-AQUEOUS							
Benzene	<0.01	mg/kg dw	10/23/1998	0.01	jap	53	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	10/23/1998	0.01	jap	53	SW 8260A
Toluene	<0.01	mg/kg dw	10/23/1998	0.01	jap	53	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	10/23/1998	0.01	jap	53	SW 8260A
Dibromofluoromethane (Surr)	105.6	%	10/23/1998	81-129	jap	53	SW 8260A
Toluene-d8 (Surr)	101.4	%	10/23/1998	74-129	jap	53	SW 8260A
4-Bromofluoromethane (Surr)	96.8	%	10/23/1998	70-130	jap	53	SW 8260A
<hr/>							
Prep, 8310 PNA's NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498646

NET Job No.: 98.13465

Sample Description: Sed-4  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.3	mg/kg dw	11/04/1998	0.052	keh	764 1829	SW 8310
Acenaphthylene	<0.3	mg/kg dw	11/04/1998	0.052	keh	764 1829	SW 8310
Anthracene	<0.5	mg/kg dw	11/04/1998	0.10	keh	764 1829	SW 8310
Benzo(a)anthracene	<0.64	mg/kg dw	11/04/1998	0.0067	keh	764 1829	SW 8310
Benzo(b)fluoranthene	<0.05	mg/kg dw	11/04/1998	0.0093	keh	764 1829	SW 8310
Benzo(k)fluoranthene	<0.04	mg/kg dw	11/04/1998	0.0088	keh	764 1829	SW 8310
Benzo(a)pyrene	<0.06	mg/kg dw	11/04/1998	0.012	keh	764 1829	SW 8310
Benzo(ghi)perylene	<0.5	mg/kg dw	11/04/1998	0.10	keh	764 1829	SW 8310
Chrysene	<0.4	mg/kg dw	11/06/1998	0.08	keh	764 1831	SW 8310
Dibenzo(a,h)anthracene	<0.1	mg/kg dw	11/04/1998	0.02	keh	764 1829	SW 8310
Fluoranthene	<0.3	mg/kg dw	11/04/1998	0.052	keh	764 1829	SW 8310
Fluorene	<0.3	mg/kg dw	11/04/1998	0.052	keh	764 1829	SW 8310
Indeno(1,2,3-cd)pyrene	<0.1	mg/kg dw	11/04/1998	0.022	keh	764 1829	SW 8310
Naphthalene	<0.3	mg/kg dw	11/04/1998	0.064	keh	764 1829	SW 8310
Phenanthrene	<0.5	mg/kg dw	11/04/1998	0.10	keh	764 1829	SW 8310
Pyrene	<0.3	mg/kg dw	11/04/1998	0.052	keh	764 1829	SW 8310
Surr: p-Terphenyl	81.5	%	11/04/1998	43-125	keh	764 1829	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/27/1998	COMPLETE	wna	374	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.10	mg/kg dw	11/03/1998	0.10	greg	374 49	SW 8082
PCB-1221	<0.10	mg/kg dw	11/03/1998	0.10	greg	374 49	SW 8082
PCB-1232	<0.10	mg/kg dw	11/03/1998	0.10	greg	374 49	SW 8082
PCB-1242	<0.10	mg/kg dw	11/03/1998	0.10	greg	374 49	SW 8082
PCB-1248	<0.10	mg/kg dw	11/03/1998	0.10	greg	374 49	SW 8082
PCB-1254	<0.10	mg/kg dw	11/03/1998	0.10	greg	374 49	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498646

NET Job No.: 98.13465

Sample Description: Sed-4  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.10	mg/kg dw	11/03/1998	0.10	greg	374 49	SW 8082
Decachlorobiphenyl (Surr)	79.9	%	11/03/1998	NA	greg	374 49	SW 8082
2,4,5,6-TCMX (Surr)	81.9	%	11/03/1998	NA	greg	374 49	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498647  
NET Job No.: 98.13465

Sample Description: Sed-5  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 13:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.94	units	10/23/1998	0.10	nwg	181	SW 90458
Solids, Total	84.5	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	3.2	mg/kg dw	11/03/1998	0.59	mhp	230 669	SW 7060
Barium, ICP	100	mg/kg dw	10/31/1998	1.2	jtt	1160 2175	SW 60108
Cadmium, ICP	0.70	mg/kg dw	10/31/1998	0.59	jtt	1160 2161	SW 60108
Chromium, ICP	40	mg/kg dw	10/31/1998	2.4	jtt	1160 2146	SW 60108
Lead, ICP	14	mg/kg dw	11/03/1998	4.7	jtt	1160 2385	SW 60108
Mercury, CVAA	<0.047	mg/kg dw	10/29/1998	0.047	jtt	664 768	SW 7471A
Selenium, GFAA	<0.30	mg/kg dw	11/03/1998	0.30	mhp	230 556	SW 7740
Silver, AA	<2.4	mg/kg dw	10/30/1998	2.4	sep	488 568	SW 7760
Prep, TPH 8015H - NONAQUEOUS TPH MODIFIED 8015	extracted		10/28/1998		rmp	243	SW 8015H
TPH as Gas	<59	mg/kg dw	11/05/1998	59	out	243 487	SW 8015H
TPH as Diesel	<59	mg/kg dw	11/05/1998	59	out	243 487	SW 8015H
TPH as Oil	<59	mg/kg dw	11/05/1998	59	out	243 487	SW 8015H
N-octacosane (TPH surr)	70.0	%	11/05/1998		out	243 487	SW 8015H
UST VOLATILES NON-AQUEOUS							
Benzene	<0.006	mg/kg dw	10/24/1998	0.006	jap	54	SW 8260A
Ethylbenzene	<0.006	mg/kg dw	10/24/1998	0.006	jap	54	SW 8260A
Toluene	<0.006	mg/kg dw	10/24/1998	0.006	jap	54	SW 8260A
Xylenes, Total	<0.006	mg/kg dw	10/24/1998	0.006	jap	54	SW 8260A
Dibromofluoromethane (Surr)	84.8	%	10/24/1998	81-129	jap	54	SW 8260A
Toluene-d8 (Surr)	101.8	%	10/24/1998	74-129	jap	54	SW 8260A
4-Bromofluoromethane (Surr)	97.0	%	10/24/1998	70-130	jap	54	SW 8260A
Prep, 8310 PHAS NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498647  
NET Job No.: 98.13465

Sample Description: Sed-5  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 13:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.024	mg/kg dw	11/04/1998	0.024	keh	764 1829	SW 8310
Acenaphthylene	<0.024	mg/kg dw	11/04/1998	0.024	keh	764 1829	SW 8310
Anthracene	<0.047	mg/kg dw	11/04/1998	0.047	keh	764 1829	SW 8310
Benzo(a)anthracene	<0.039	MX mg/kg dw	11/04/1998	0.0031	keh	764 1829	SW 8310
Benzo(b)fluoranthene	<0.019	MX mg/kg dw	11/04/1998	0.0043	keh	764 1829	SW 8310
Benzo(k)fluoranthene	<0.0040	mg/kg dw	11/04/1998	0.0040	keh	764 1829	SW 8310
Benzo(a)pyrene	<0.0054	mg/kg dw	11/04/1998	0.0054	keh	764 1829	SW 8310
Benzo(ghi)perylene	<0.047	mg/kg dw	11/04/1998	0.047	keh	764 1829	SW 8310
Chrysene	<0.04	mg/kg dw	11/06/1998	0.04	keh	764 1831	SW 8310
Dibenzo(a,h)anthracene	<0.007	mg/kg dw	11/04/1998	0.007	keh	764 1829	SW 8310
Fluoranthene	<0.024	mg/kg dw	11/04/1998	0.024	keh	764 1829	SW 8310
<del>Fluorene</del>	<del>&lt;0.024</del>	<del>mg/kg dw</del>	<del>11/04/1998</del>	<del>0.024</del>	<del>keh</del>	<del>764 1829</del>	<del>SW 8310</del>
Indeno(1,2,3-cd)pyrene	<0.010	mg/kg dw	11/04/1998	0.010	keh	764 1829	SW 8310
Naphthalene	0.033	mg/kg dw	11/04/1998	0.030	keh	764 1829	SW 8310
Phenanthrene	<0.047	mg/kg dw	11/04/1998	0.047	keh	764 1829	SW 8310
Pyrene	<0.024	mg/kg dw	11/04/1998	0.024	keh	764 1829	SW 8310
Surr: p-Terphenyl	59.2	%	11/04/1998	43-125	keh	764 1829	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	377	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.047	mg/kg dw	11/04/1998	0.047	btl	377 55	SW 8082
PCB-1221	<0.047	mg/kg dw	11/04/1998	0.047	btl	377 55	SW 8082
PCB-1232	<0.047	mg/kg dw	11/04/1998	0.047	btl	377 55	SW 8082
PCB-1242	<0.047	mg/kg dw	11/04/1998	0.047	btl	377 55	SW 8082
PCB-1248	<0.047	mg/kg dw	11/04/1998	0.047	btl	377 55	SW 8082
PCB-1254	<0.047	mg/kg dw	11/04/1998	0.047	btl	377 55	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498647  
NET Job No.: 98.13465

Sample Description: Sed-5  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 13:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.047	mg/kg dw	11/04/1998	0.047	btl	377 55	SW 8082
Decachlorobiphenyl (Surr)	81.0	%	11/04/1998	NA	btl	377 55	SW 8082
2,4,5,6-TCMX (Surr)	95.0	%	11/04/1998	NA	btl	377 55	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498648

NET Job No. : 98.13465

Sample Description: Sed-6  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 14:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.04	units	10/23/1998	0.10	nwg	181	SW 9045B
Solids, Total	67.7	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	15	mg/kg dw	11/06/1998	0.74	jtt	230 671	SW 7060
Barium, ICP	857	mg/kg dw	10/31/1998	1.5	jtt	1160 2175	SW 6010B
Cadmium, ICP	1.6	mg/kg dw	10/31/1998	0.74	jtt	1160 2161	SW 6010B
Chromium, ICP	87	mg/kg dw	10/31/1998	3.0	jtt	1160 2146	SW 6010B
Lead, ICP	53	mg/kg dw	11/03/1998	5.9	jtt	1160 2385	SW 6010B
Mercury, CVAA	0.25	mg/kg dw	10/29/1998	0.059	jtt	664 768	SW 7471A
Selenium, GFAA	3.4	M* mg/kg dw	11/06/1998	0.37	nhp	230 559	SW 7740
Silver, AA	<3.0	mg/kg dw	10/30/1998	3.0	sep	488 568	SW 7760

<del>Prep, TPH-8015M NON-AQUEOUS</del>	<del>extracted</del>		<del>10/28/1998</del>		<del>nmp</del>	<del>243</del>	<del>SW-8015M</del>
TPH MODIFIED 8015							
TPH as Gas	<74	mg/kg dw	11/05/1998	74	out	243 487	SW 8015M
TPH as Diesel	<74	mg/kg dw	11/05/1998	74	out	243 487	SW 8015M
TPH as Oil	560	PT mg/kg dw	11/05/1998	74	out	243 487	SW 8015M
N-octacosane (TPH surr)	93.0	%	11/05/1998		out	243 487	SW 8015M

UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	10/24/1998	0.007	jap	54	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	10/24/1998	0.007	jap	54	SW 8260A
Toluene	<0.007	mg/kg dw	10/24/1998	0.007	jap	54	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	10/24/1998	0.007	jap	54	SW 8260A
Dibromofluoromethane (Surr)	89.8	%	10/24/1998	81-129	jap	54	SW 8260A
Toluene-dB (Surr)	98.0	%	10/24/1998	74-129	jap	54	SW 8260A
4-Bromofluoromethane (Surr)	92.8	%	10/24/1998	70-130	jap	54	SW 8260A

Prep, 8310 PNAs NON-AQUEOUS	extracted		10/29/1998		nmv	764	SW 3540C
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M\* : Analyte quantified by MSA due to low spike recovery.

PT: Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.





**NATIONAL  
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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498648  
NET Job No.: 98.13465

Sample Description: Sed-6  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 14:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - 8310 NONAQUEOUS							
Acenaphthene	<0.030	mg/kg dw	11/04/1998	0.030	keh	764 1829	SW 8310
Acenaphthylene	<0.030	mg/kg dw	11/04/1998	0.030	keh	764 1829	SW 8310
Anthracene	<0.059	mg/kg dw	11/04/1998	0.059	keh	764 1829	SW 8310
Benzo(a)anthracene	<0.32 MX	mg/kg dw	11/04/1998	0.0038	keh	764 1829	SW 8310
Benzo(b)fluoranthene	0.044	mg/kg dw	11/04/1998	0.0053	keh	764 1829	SW 8310
Benzo(k)fluoranthene	<0.047 MX	mg/kg dw	11/04/1998	0.0050	keh	764 1829	SW 8310
Benzo(a)pyrene	<0.027 MX	mg/kg dw	11/04/1998	0.0068	keh	764 1829	SW 8310
Benzo(ghi)perylene	<0.059	mg/kg dw	11/04/1998	0.059	keh	764 1829	SW 8310
Chrysene	<0.04	mg/kg dw	11/06/1998	0.04	keh	764 1831	SW 8310
Dibenzo(a,h)anthracene	<0.014 MX	mg/kg dw	11/04/1998	0.009	keh	764 1829	SW 8310
Fluoranthene	0.10	mg/kg dw	11/04/1998	0.030	keh	764 1829	SW 8310
Fluorene	0.034	mg/kg dw	11/04/1998	0.030	keh	764 1829	SW 8310
Indeno(1,2,3-cd)pyrene	<0.016 MX	mg/kg dw	11/04/1998	0.013	keh	764 1829	SW 8310
Naphthalene	<0.037	mg/kg dw	11/04/1998	0.037	keh	764 1829	SW 8310
Phenanthrene	0.069	mg/kg dw	11/04/1998	0.059	keh	764 1829	SW 8310
Pyrene	0.065	mg/kg dw	11/04/1998	0.030	keh	764 1829	SW 8310
Surr: p-Terphenyl	63.8	%	11/04/1998	43-125	keh	764 1829	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	377	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.059	mg/kg dw	11/06/1998	0.059	bt1	377 56	SW 8082
PCB-1221	<0.059	mg/kg dw	11/06/1998	0.059	bt1	377 56	SW 8082
PCB-1232	<0.059	mg/kg dw	11/06/1998	0.059	bt1	377 56	SW 8082
PCB-1242	<0.059	mg/kg dw	11/06/1998	0.059	bt1	377 56	SW 8082
PCB-1248	<0.059	mg/kg dw	11/06/1998	0.059	bt1	377 56	SW 8082
PCB-1254	<0.059	mg/kg dw	11/06/1998	0.059	bt1	377 56	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498648

NET Job No.: 98.13465

Sample Description: Sed-6  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 14:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.059	mg/kg dw	11/06/1998	0.059	btl	377 56	SW 8082
Decachlorobiphenyl (Surr)	80.0	%	11/06/1998	NA	btl	377 56	SW 8082
2,4,5,6-TCMX (Surr)	87.0	%	11/06/1998	NA	btl	377 56	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498649

NET Job No.: 98.13465

Sample Description: Sed-7  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 15:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.35	units	10/23/1998	0.10	nwg	181	SW 90458
Solids, Total	56.0	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	5.0	mg/kg dw	11/03/1998	0.89	mhp	230 669	SW 7060
Barium, ICP	2,320	mg/kg dw	10/31/1998	1.8	jtt	1160 2175	SW 6010B
Cadmium, ICP	0.96	mg/kg dw	10/31/1998	0.89	jtt	1160 2161	SW 6010B
Chromium, ICP	18	mg/kg dw	10/31/1998	3.6	jtt	1160 2146	SW 6010B
Lead, ICP	36	mg/kg dw	11/03/1998	7.1	jtt	1160 2385	SW 6010B
Mercury, CVAA	0.32	mg/kg dw	10/29/1998	0.071	jtt	664 768	SW 7471A
Selenium, GFAA	0.48	mg/kg dw	11/03/1998	0.45	mhp	230 556	SW 7740
Silver, AA	<3.6	mg/kg dw	10/30/1998	3.6	sep	488 568	SW 7760
Prep, TPH 8015H - NONAQUEOUS TPH MODIFIED 8015	extracted		10/28/1998		rmp	243	SW 8015H
TPH as Gas	<89	mg/kg dw	11/05/1998	89	out	243 487	SW 8015H
TPH as Diesel	<89	mg/kg dw	11/05/1998	89	out	243 487	SW 8015H
TPH as Oil	352	PT mg/kg dw	11/05/1998	89	out	243 487	SW 8015H
N-octacosane (TPH surr)	82.0	%	11/05/1998		out	243 487	SW 8015H
<b>UST VOLATILES NON-AQUEOUS</b>							
Benzene	<0.009	mg/kg dw	10/24/1998	0.009	jap	54	SW 8260A
Ethylbenzene	<0.009	mg/kg dw	10/24/1998	0.009	jap	54	SW 8260A
Toluene	<0.009	mg/kg dw	10/24/1998	0.009	jap	54	SW 8260A
Xylenes, Total	<0.009	mg/kg dw	10/24/1998	0.009	jap	54	SW 8260A
Dibromofluoromethane (Surr)	93.2	%	10/24/1998	81-129	jap	54	SW 8260A
Toluene-d8 (Surr)	79.0	%	10/24/1998	74-129	jap	54	SW 8260A
4-Bromofluoromethane (Surr)	88.2	%	10/24/1998	70-130	jap	54	SW 8260A
Prep, 8310 PHAS NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C

PT: Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498649

NET Job No.: 98.13465

Sample Description: Sed-7  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 15:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.036	mg/kg dw	11/03/1998	0.036	kdw	764 1826	SW 8310
Acenaphthylene	<0.036	mg/kg dw	11/03/1998	0.036	kdw	764 1826	SW 8310
Anthracene	<0.071	mg/kg dw	11/03/1998	0.071	kdw	764 1826	SW 8310
Benzo(a)anthracene	<5.0 MX	mg/kg dw	11/04/1998	0.0046	keh	764 1829	SW 8310
Benzo(b)fluoranthene	<0.030 MX	mg/kg dw	11/03/1998	0.0064	kdw	764 1826	SW 8310
Benzo(k)fluoranthene	<0.01 MX	mg/kg dw	11/03/1998	0.0061	kdw	764 1826	SW 8310
Benzo(a)pyrene	<0.0096 MX	mg/kg dw	11/03/1998	0.0082	kdw	764 1826	SW 8310
Benzo(ghi)perylene	<0.071	mg/kg dw	11/03/1998	0.071	kdw	764 1826	SW 8310
Chrysene	<0.364 MX	mg/kg dw	11/03/1998	0.05	kdw	764 1826	SW 8310
Dibenzo(a,h)anthracene	<0.14 MX	mg/kg dw	11/03/1998	0.01	kdw	764 1826	SW 8310
Fluoranthene	<0.088 MX	mg/kg dw	11/03/1998	0.036	kdw	764 1826	SW 8310
Fluorene	<0.061 MX	mg/kg dw	11/03/1998	0.036	kdw	764 1826	SW 8310
Indeno(1,2,3-cd)pyrene	<0.088 MX	mg/kg dw	11/03/1998	0.015	kdw	764 1826	SW 8310
Naphthalene	<0.045	mg/kg dw	11/03/1998	0.045	kdw	764 1826	SW 8310
Phenanthrene	0.12	mg/kg dw	11/03/1998	0.071	kdw	764 1826	SW 8310
Pyrene	<1.7 MX	mg/kg dw	11/03/1998	0.036	kdw	764 1826	SW 8310
Surr: p-Terphenyl	Masked		11/03/1998	43-125	kdw	764 1826	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	377	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.071	mg/kg dw	11/06/1998	0.071	bt1	377 56	SW 8082
PCB-1221	<0.071	mg/kg dw	11/06/1998	0.071	bt1	377 56	SW 8082
PCB-1232	<0.071	mg/kg dw	11/06/1998	0.071	bt1	377 56	SW 8082
PCB-1242	<0.071	mg/kg dw	11/06/1998	0.071	bt1	377 56	SW 8082
PCB-1248	<0.071	mg/kg dw	11/06/1998	0.071	bt1	377 56	SW 8082
PCB-1254	<0.071	mg/kg dw	11/06/1998	0.071	bt1	377 56	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498649  
NET Job No.: 98.13465

Sample Description: Sed-7  
ComEd-Powerton; 1801-023-510

Date Taken: 10/14/1998  
Time Taken: 15:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.071	mg/kg dw	11/06/1998	0.071	btl	377 56	SW 8082
Decachlorobiphenyl (Surr)	74.0	%	11/06/1998	NA	btl	377 56	SW 8082
2,4,5,6-TCMX (Surr)	69.0	%	11/06/1998	NA	btl	377 56	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498650

NET Job No.: 98.13465

Sample Description: Sed-8  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 08:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.77	units	10/23/1998	0.10	nwg	181	SW 9045B
Solids, Total	49.5	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	3.4	mg/kg dw	11/03/1998	1.0	mhp	230 669	SW 7060
Barium, ICP	1,070	mg/kg dw	10/31/1998	2.0	jtt	1160 2175	SW 6010B
Cadmium, ICP	1.3	mg/kg dw	10/31/1998	1.0	jtt	1160 2161	SW 6010B
Chromium, ICP	8.9	mg/kg dw	10/31/1998	4.0	jtt	1160 2146	SW 6010B
Lead, ICP	28	mg/kg dw	11/03/1998	8.1	jtt	1160 2385	SW 6010B
Mercury, CVAAs	0.75	mg/kg dw	10/29/1998	0.081	jtt	664 768	SW 7471A
Selenium, GFAA	<0.51	mg/kg dw	11/03/1998	0.51	mhp	230 556	SW 7740
Silver, AA	<4.0	mg/kg dw	10/30/1998	4.0	sep	488 568	SW 7760
<hr/>							
Prep, TPH-8015M NON-AQUEOUS	extracted		10/28/1998		mp	243	SW-8015M
<hr/>							
TPH MODIFIED 8015							
TPH as Gas	<100	mg/kg dw	11/05/1998	100	out	243 487	SW 8015M
TPH as Diesel	<100	mg/kg dw	11/05/1998	100	out	243 487	SW 8015M
TPH as Oil	2,440	PT mg/kg dw	11/05/1998	100	out	243 487	SW 8015M
N-octacosane (TPH surr)	61,0	%	11/05/1998		out	243 487	SW 8015M
<hr/>							
UST VOLATILES NON-AQUEOUS							
Benzene	<0.01	mg/kg dw	10/28/1998	0.01	mjo	61	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	10/28/1998	0.01	mjo	61	SW 8260A
Toluene	<0.01	mg/kg dw	10/28/1998	0.01	mjo	61	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	10/28/1998	0.01	mjo	61	SW 8260A
Dibromofluoromethane (Surr)	107.4	%	10/28/1998	81-129	mjo	61	SW 8260A
Toluene-d8 (Surr)	91.0	%	10/28/1998	74-129	mjo	61	SW 8260A
4-Bromofluoromethane (Surr)	80.6	%	10/28/1998	70-130	mjo	61	SW 8260A
<hr/>							
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C

PT: Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498650  
NET Job No.: 98.13465

Sample Description: Sed-8  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 08:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
				POL		Prep/Run	
PNA CMPDS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<0.40	mg/kg dw	11/03/1998	0.040	kdw	764 1826	SW 8310
Acenaphthylene	<0.40	mg/kg dw	11/03/1998	0.040	kdw	764 1826	SW 8310
Anthracene	<0.81	mg/kg dw	11/03/1998	0.081	kdw	764 1826	SW 8310
Benzo(a)anthracene	<2.4	mg/kg dw	11/03/1998	0.0053	kdw	764 1826	SW 8310
Benzo(b)fluoranthene	<0.59	mg/kg dw	11/03/1998	0.0073	kdw	764 1826	SW 8310
Benzo(k)fluoranthene	<0.34	mg/kg dw	11/03/1998	0.0069	kdw	764 1826	SW 8310
Benzo(a)pyrene	<0.18	mg/kg dw	11/03/1998	0.0093	kdw	764 1826	SW 8310
Benzo(ghi)perylene	<0.81	mg/kg dw	11/03/1998	0.081	kdw	764 1826	SW 8310
Chrysene	<0.6	mg/kg dw	11/03/1998	0.06	kdw	764 1826	SW 8310
Dibenzo(a,h)anthracene	<0.1	mg/kg dw	11/03/1998	0.01	kdw	764 1826	SW 8310
Fluoranthene	<0.40	mg/kg dw	11/03/1998	0.040	kdw	764 1826	SW 8310
Fluorene	<0.40	mg/kg dw	11/03/1998	0.040	kdw	764 1826	SW 8310
Indeno(1,2,3-cd)pyrene	<0.17	mg/kg dw	11/03/1998	0.017	kdw	764 1826	SW 8310
Naphthalene	<0.51	mg/kg dw	11/03/1998	0.051	kdw	764 1826	SW 8310
Phenanthrene	<0.81	mg/kg dw	11/03/1998	0.081	kdw	764 1826	SW 8310
Pyrene	<0.40	mg/kg dw	11/03/1998	0.040	kdw	764 1826	SW 8310
Surr: p-Terphenyl	Masked		11/03/1998	43-125	kdw	764 1826	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	377	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.081	mg/kg dw	11/06/1998	0.081	btcl	377 56	SW 8082
PCB-1221	<0.081	mg/kg dw	11/06/1998	0.081	btcl	377 56	SW 8082
PCB-1232	<0.081	mg/kg dw	11/06/1998	0.081	btcl	377 56	SW 8082
PCB-1242	<0.081	mg/kg dw	11/06/1998	0.081	btcl	377 56	SW 8082
PCB-1248	<0.081	mg/kg dw	11/06/1998	0.081	btcl	377 56	SW 8082
PCB-1254	<0.081	mg/kg dw	11/06/1998	0.081	btcl	377 56	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498650

NET Job No.: 98.13465

Sample Description: Sed-8  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 08:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
				PdL		Prep/Run	
PCB-1260	<0.081	mg/kg dw	11/06/1998	0.081	btl	377 56	SW 8082
Decachlorobiphenyl (Surr)	74.0	%	11/06/1998	NA	btl	377 56	SW 8082
2,4,5,6-TCMX (Surr)	77.0	%	11/06/1998	NA	btl	377 56	SW 8082





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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498651  
NET Job No.: 98.13465

Sample Description: Sed-9  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.11	units	10/23/1998	0.10	nwg	181	SW 9045B
Solids, Total	60.6	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	2.3	mg/kg dw	11/04/1998	0.83	mhp	231 670	SW 7060
Barium, ICP	561	mg/kg dw	10/31/1998	1.7	jtt	1160 2175	SW 6010B
Cadmium, ICP	<0.83	mg/kg dw	10/31/1998	0.83	jtt	1160 2161	SW 6010B
Chromium, ICP	7.8	mg/kg dw	10/31/1998	3.3	jtt	1160 2146	SW 6010B
Lead, ICP	17	mg/kg dw	11/03/1998	6.6	jtt	1160 2385	SW 6010B
Mercury, CVAA	0.26	mg/kg dw	10/29/1998	0.066	jtt	664 768	SW 7471A
Selenium, GFAA	<0.41	mg/kg dw	11/04/1998	0.41	mhp	231 557	SW 7740
Silver, AA	<3.3	mg/kg dw	10/30/1998	3.3	sep	488 568	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	243	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<83	mg/kg dw	11/05/1998	83	out	243 487	SW 8015M
TPH as Diesel	<83	mg/kg dw	11/05/1998	83	out	243 487	SW 8015M
TPH as Oil	1,130	PT mg/kg dw	11/05/1998	83	out	243 487	SW 8015M
N-octacosane (TPH surr)	112.0	%	11/05/1998		out	243 487	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.008	mg/kg dw	10/28/1998	0.008	mjo	61	SW 8260A
Ethylbenzene	<0.008	mg/kg dw	10/28/1998	0.008	mjo	61	SW 8260A
Toluene	<0.008	mg/kg dw	10/28/1998	0.008	mjo	61	SW 8260A
Xylenes, Total	<0.008	mg/kg dw	10/28/1998	0.008	mjo	61	SW 8260A
Dibromofluoromethane (Surr)	117.8	%	10/28/1998	81-129	mjo	61	SW 8260A
Toluene-d8 (Surr)	81.0	%	10/28/1998	74-129	mjo	61	SW 8260A
4-Bromofluoromethane (Surr)	72.4	%	10/28/1998	70-130	mjo	61	SW 8260A
Prep, 8310 PHAS NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C

PT: Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498651  
NET Job No.: 98.13465

Sample Description: Sed-9  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPDS - B310 NONAQUEOUS		ELV					
Acenaphthene	<0.33	mg/kg dw	11/03/1998	0.033	kdw	764 1826	SW 8310
Acenaphthylene	<0.33	mg/kg dw	11/03/1998	0.033	kdw	764 1826	SW 8310
Anthracene	<0.66	mg/kg dw	11/03/1998	0.066	kdw	764 1826	SW 8310
Benzo(a)anthracene	<5.4	mg/kg dw	11/03/1998	0.0043	kdw	764 1826	SW 8310
Benzo(b)fluoranthene	<1.3	mg/kg dw	11/03/1998	0.0059	kdw	764 1826	SW 8310
Benzo(k)fluoranthene	<0.76	mg/kg dw	11/03/1998	0.0056	kdw	764 1826	SW 8310
Benzo(a)pyrene	<0.61	mg/kg dw	11/03/1998	0.0076	kdw	764 1826	SW 8310
Benzo(ghi)perylene	<0.66	mg/kg dw	11/03/1998	0.066	kdw	764 1826	SW 8310
Chrysene	<0.5	mg/kg dw	11/03/1998	0.05	kdw	764 1826	SW 8310
Dibenzo(a,h)anthracene	<0.178	mg/kg dw	11/03/1998	0.01	kdw	764 1826	SW 8310
Fluoranthene	<0.61	mg/kg dw	11/03/1998	0.033	kdw	764 1826	SW 8310
Fluorene	<0.33	mg/kg dw	11/03/1998	0.033	kdw	764 1826	SW 8310
Indeno(1,2,3-cd)pyrene	<1.7	mg/kg dw	11/03/1998	0.014	kdw	764 1826	SW 8310
Naphthalene	<0.41	mg/kg dw	11/03/1998	0.041	kdw	764 1826	SW 8310
Phenanthrene	<0.66	mg/kg dw	11/03/1998	0.066	kdw	764 1826	SW 8310
Pyrene	0.84	mg/kg dw	11/03/1998	0.033	kdw	764 1826	SW 8310
Surr: p-Terphenyl	Masked		11/03/1998	43-125	kdw	764 1826	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wba	377	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.066	mg/kg dw	11/06/1998	0.066	btl	377 56	SW 8082
PCB-1221	<0.066	mg/kg dw	11/06/1998	0.066	btl	377 56	SW 8082
PCB-1232	<0.066	mg/kg dw	11/06/1998	0.066	btl	377 56	SW 8082
PCB-1242	<0.066	mg/kg dw	11/06/1998	0.066	btl	377 56	SW 8082
PCB-1248	<0.066	mg/kg dw	11/06/1998	0.066	btl	377 56	SW 8082
PCB-1254	<0.066	mg/kg dw	11/06/1998	0.066	btl	377 56	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498651  
NET Job No.: 98.13465

Sample Description: Sed-9  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 09:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method POL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.066	mg/kg dw	11/06/1998	0.066	btl	377 56	SW 8082
Decachlorobiphenyl (Surr)	71.0	%	11/06/1998	NA	btl	377 56	SW 8082
2,4,5,6-TCMX (Surr)	72.0	%	11/06/1998	NA	btl	377 56	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498652

NET Job No.: 98.13465

Sample Description: Sed-10  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.83	units	10/23/1998	0.10	nwg	181	SW 9045B
Solids, Total	53.7	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	6.7	mg/kg dw	11/04/1998	0.93	mhp	231 670	SW 7060
Barium, ICP	372	mg/kg dw	11/02/1998	1.9	jtt	1161 2176	SW 6010B
Cadmium, ICP	1.3	mg/kg dw	11/04/1998	0.93	kdw	1161 2169	SW 6010B
Chromium, ICP	18	mg/kg dw	11/02/1998	3.7	jtt	1161 2147	SW 6010B
Lead, ICP	39	mg/kg dw	11/04/1998	7.4	kdw	1161 2392	SW 6010B
Mercury, CVAAs	<0.074	mg/kg dw	10/29/1998	0.074	jtt	664 768	SW 7471A
Selenium, GFAA	<0.47	mg/kg dw	11/04/1998	0.47	mhp	231 557	SW 7740
Silver, AA	<3.7	mg/kg dw	10/30/1998	3.7	sep	488 568	SW 7760
<hr/>							
Prep, TPH 8015H - NONAQUEOUS	extracted		10/28/1998		mhp	243	SW 8015H
<hr/>							
TPH MODIFIED 8015							
TPH as Gas	<93	mg/kg dw	11/05/1998	93	out	243 487	SW 8015H
TPH as Diesel	<93	mg/kg dw	11/05/1998	93	out	243 487	SW 8015H
TPH as Oil	18,500	PT mg/kg dw	11/05/1998	93	out	243 487	SW 8015H
N-octacosane (TPH surr)	44.0	%	11/05/1998		out	243 487	SW 8015H
<hr/>							
UST VOLATILES NON-AQUEOUS							
Benzene	<0.009	mg/kg dw	10/24/1998	0.009	jap	54	SW 8260A
Ethylbenzene	<0.009	mg/kg dw	10/24/1998	0.009	jap	54	SW 8260A
Toluene	<0.009	mg/kg dw	10/24/1998	0.009	jap	54	SW 8260A
Xylenes, Total	<0.009	mg/kg dw	10/24/1998	0.009	jap	54	SW 8260A
Dibromofluoromethane (Surr)	70.0	R %	10/24/1998	81-129	jap	54	SW 8260A
Toluene-d8 (Surr)	69.8	R %	10/24/1998	74-129	jap	54	SW 8260A
4-Bromofluoromethane (Surr)	114.2	%	10/24/1998	70-130	jap	54	SW 8260A
<hr/>							
Prep, 8310 PNAS NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C

PT: Pattern does not match the calibration standard; however, hydrocarbons are present in the oil range.  
R : Surrogate recovery verified by re-analysis.



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498652

NET Job No.: 98.13465

Sample Description: Sed-10  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PNA CMPS - 8310 NONAQUEOUS		ELV					
Acenaphthene	<3.7	mg/kg dw	11/03/1998	0.037	kdw	764 1826	SW 8310
Acenaphthylene	<3.7	mg/kg dw	11/03/1998	0.037	kdw	764 1826	SW 8310
Anthracene	<7.4	mg/kg dw	11/03/1998	0.074	kdw	764 1826	SW 8310
Benzo(a)anthracene	<3.4	mg/kg dw	11/03/1998	0.0048	kdw	764 1826	SW 8310
Benzo(b)fluoranthene	1.5	mg/kg dw	11/03/1998	0.0067	kdw	764 1826	SW 8310
Benzo(k)fluoranthene	<0.63	mg/kg dw	11/03/1998	0.0063	kdw	764 1826	SW 8310
Benzo(a)pyrene	4.8	mg/kg dw	11/03/1998	0.0086	kdw	764 1826	SW 8310
Benzo(ghi)perylene	<7.4	mg/kg dw	11/03/1998	0.074	kdw	764 1826	SW 8310
Chrysene	<6	mg/kg dw	11/03/1998	0.06	kdw	764 1826	SW 8310
Dibenzo(a,h)anthracene	<1	mg/kg dw	11/03/1998	0.01	kdw	764 1826	SW 8310
Fluoranthene	<3.7	mg/kg dw	11/03/1998	0.037	kdw	764 1826	SW 8310
Fluorene	<3.7	mg/kg dw	11/03/1998	0.037	kdw	764 1826	SW 8310
Indeno(1,2,3-cd)pyrene	<1.6	mg/kg dw	11/03/1998	0.016	kdw	764 1826	SW 8310
Naphthalene	<4.7	mg/kg dw	11/03/1998	0.047	kdw	764 1826	SW 8310
Phenanthrene	<7.4	mg/kg dw	11/03/1998	0.074	kdw	764 1826	SW 8310
Pyrene	<3.7	mg/kg dw	11/03/1998	0.037	kdw	764 1826	SW 8310
Surr: p-Terphenyl	Diluted out		11/03/1998	43-125	kdw	764 1826	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	377	SW 3540C
PCB'S NON-AQUEOUS							
PCB-1016	<0.074	mg/kg dw	11/06/1998	0.074	btl	377 56	SW 8082
PCB-1221	<0.074	mg/kg dw	11/06/1998	0.074	btl	377 56	SW 8082
PCB-1232	<0.074	mg/kg dw	11/06/1998	0.074	btl	377 56	SW 8082
PCB-1242	<0.074	mg/kg dw	11/06/1998	0.074	btl	377 56	SW 8082
PCB-1248	<0.074	mg/kg dw	11/06/1998	0.074	btl	377 56	SW 8082
PCB-1254	<0.074	mg/kg dw	11/06/1998	0.074	btl	377 56	SW 8082

ELV : Elevated reporting limits due to matrix interference.



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498652  
NET Job No.: 98.13465

Sample Description: Sed-10  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 10:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.074	mg/kg dw	11/06/1998	0.074	btl	377 56	SW 8082
Decachlorobiphenyl (Surr)	22.0	%	11/06/1998	NA	btl	377 56	SW 8082
2,4,5,6-TCMX (Surr)	83.0	%	11/06/1998	NA	btl	377 56	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498653  
NET Job No.: 98.13465

Sample Description: Sed-11  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 11:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	8.58	units	10/23/1998	0.10	nwg	181	SW 90458
Solids, Total	44.6	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	13	mg/kg dw	11/04/1998	1.1	mhp	231 670	SW 7060
Barium, ICP	2,470	mg/kg dw	11/02/1998	2.2	jtt	1161 2176	SW 60108
Cadmium, ICP	1.8	mg/kg dw	11/04/1998	1.1	kdw	1161 2169	SW 60108
Chromium, ICP	47	mg/kg dw	11/02/1998	4.5	jtt	1161 2147	SW 60108
Lead, ICP	67	mg/kg dw	11/04/1998	9.0	kdw	1161 2392	SW 60108
Mercury, CVAA	0.76	mg/kg dw	10/29/1998	0.090	jtt	664 768	SW 7471A
Selenium, GFAA	1.1	mg/kg dw	11/04/1998	0.56	mhp	231 557	SW 7740
Silver, AA	<4.5	mg/kg dw	10/30/1998	4.5	sep	488 568	SW 7760
Prep, TPH 8015M - NONAQUEOUS	extracted		10/28/1998		rmp	243	SW 8015M
TPH MODIFIED 8015							
TPH as Gas	<110	mg/kg dw	11/05/1998	110	out	243 487	SW 8015M
TPH as Diesel	<110	mg/kg dw	11/05/1998	110	out	243 487	SW 8015M
TPH as Oil	<110	mg/kg dw	11/05/1998	110	out	243 487	SW 8015M
N-octacosane (TPH surr)	100.0	%	11/05/1998		out	243 487	SW 8015M
UST VOLATILES NON-AQUEOUS							
Benzene	<0.01	mg/kg dw	10/28/1998	0.01	jap	62	SW 8260A
Ethylbenzene	<0.01	mg/kg dw	10/28/1998	0.01	jap	62	SW 8260A
Toluene	<0.01	mg/kg dw	10/28/1998	0.01	jap	62	SW 8260A
Xylenes, Total	<0.01	mg/kg dw	10/28/1998	0.01	jap	62	SW 8260A
Dibromofluoromethane (Surr)	92.0	%	10/28/1998	81-129	jap	62	SW 8260A
Toluene-d8 (Surr)	90.6	%	10/28/1998	74-129	jap	62	SW 8260A
4-Bromofluoromethane (Surr)	99.0	%	10/28/1998	70-130	jap	62	SW 8260A
Prep, 8310 PHAS NON-AQUEOUS	extracted		10/29/1998		mmv	764	SW 3540C



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498653  
NET Job No.: 98.13465

Sample Description: Sed-11  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 11:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>PMA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.045	mg/kg dw	11/03/1998	0.045	kdw	764 1824	SW 8310
Acenaphthylene	<0.045	mg/kg dw	11/03/1998	0.045	kdw	764 1824	SW 8310
Anthracene	<0.090	mg/kg dw	11/03/1998	0.090	kdw	764 1824	SW 8310
Benzo(a)anthracene	<0.31 MX	mg/kg dw	11/03/1998	0.0058	kdw	764 1824	SW 8310
Benzo(b)fluoranthene	0.067	mg/kg dw	11/03/1998	0.0081	kdw	764 1824	SW 8310
Benzo(k)fluoranthene	0.047	mg/kg dw	11/03/1998	0.0076	kdw	764 1824	SW 8310
Benzo(a)pyrene	<0.085 MX	mg/kg dw	11/03/1998	0.010	kdw	764 1824	SW 8310
Benzo(ghi)perylene	<0.090	mg/kg dw	11/03/1998	0.090	kdw	764 1824	SW 8310
Chrysene	0.078	mg/kg dw	11/03/1998	0.07	kdw	764 1824	SW 8310
Dibenzo(a,h)anthracene	<0.01 MX	mg/kg dw	11/03/1998	0.01	kdw	764 1824	SW 8310
Fluoranthene	0.34	mg/kg dw	11/03/1998	0.045	kdw	764 1824	SW 8310
Fluorene	<0.049 MX	mg/kg dw	11/03/1998	0.045	kdw	764 1824	SW 8310
Indeno(1,2,3-cd)pyrene	0.031	mg/kg dw	11/03/1998	0.019	kdw	764 1824	SW 8310
Naphthalene	0.074	mg/kg dw	11/03/1998	0.056	kdw	764 1824	SW 8310
Phenanthrene	0.17	mg/kg dw	11/03/1998	0.090	kdw	764 1824	SW 8310
Pyrene	0.18	mg/kg dw	11/03/1998	0.045	kdw	764 1824	SW 8310
Surr: p-Terphenyl	Masked		11/03/1998	43-125	kdw	764 1824	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	377	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.090	mg/kg dw	11/06/1998	0.090	tls	377 56	SW 8082
PCB-1221	<0.090	mg/kg dw	11/06/1998	0.090	tls	377 56	SW 8082
PCB-1232	<0.090	mg/kg dw	11/06/1998	0.090	tls	377 56	SW 8082
PCB-1242	<0.090	mg/kg dw	11/06/1998	0.090	tls	377 56	SW 8082
PCB-1248	<0.090	mg/kg dw	11/06/1998	0.090	tls	377 56	SW 8082
PCB-1254	<0.090	mg/kg dw	11/06/1998	0.090	tls	377 56	SW 8082

MX : Dilution required due to sample matrix; analyte is not detected.





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(800) 807-2877

**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498653  
NET Job No.: 98.13465

Sample Description: Sed-11  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 11:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.090	mg/kg dw	11/06/1998	0.090	tls	377 56	SW 8082
Decachlorobiphenyl (Surr)	87.0	%	11/06/1998	NA	tls	377 56	SW 8082
2,4,5,6-TCMX (Surr)	84.0	%	11/06/1998	NA	tls	377 56	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498654

NET Job No.: 98.13465

Sample Description: Sed-12  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH, Non-Aqueous	7.98	units	10/23/1998	0.10	nwg	182	SW 90458
Solids, Total	72.8	%	11/02/1998	0.1	efw	2511	SM 2540
Arsenic, GFAA	3.6	mg/kg dw	11/04/1998	0.69	mhp	231 670	SW 7060
Barium, ICP	288	mg/kg dw	11/02/1998	1.4	jtt	1161 2176	SW 60108
Cadmium, ICP	0.69	mg/kg dw	11/04/1998	0.69	kdw	1161 2169	SW 60108
Chromium, ICP	120	mg/kg dw	11/02/1998	2.7	jtt	1161 2147	SW 60108
Lead, ICP	41	mg/kg dw	11/04/1998	5.5	kdw	1161 2392	SW 60108
Mercury, CVAA	<0.055	mg/kg dw	10/29/1998	0.055	jtt	664 768	SW 7471A
Selenium, GFAA	<0.34	mg/kg dw	11/04/1998	0.34	mhp	231 557	SW 7740
Silver, AA	<2.7	mg/kg dw	10/30/1998	2.7	sep	488 568	SW 7760
Prep, TPH 8015H - NONAQUEOUS	extracted		10/28/1998		rmp	243	SW 8015H
TPH MODIFIED 8015							
TPH as Gas	<69	mg/kg dw	11/05/1998	69	out	243 487	SW 8015H
TPH as Diesel	<69	mg/kg dw	11/05/1998	69	out	243 487	SW 8015H
TPH as Oil	<69	mg/kg dw	11/05/1998	69	out	243 487	SW 8015H
N-octacosane (TPH surr)	108.0	%	11/05/1998		out	243 487	SW 8015H
UST VOLATILES NON-AQUEOUS							
Benzene	<0.007	mg/kg dw	10/28/1998	0.007	jap	62	SW 8260A
Ethylbenzene	<0.007	mg/kg dw	10/28/1998	0.007	jap	62	SW 8260A
Toluene	<0.007	mg/kg dw	10/28/1998	0.007	jap	62	SW 8260A
Xylenes, Total	<0.007	mg/kg dw	10/28/1998	0.007	jap	62	SW 8260A
Dibromofluoromethane (Surr)	89.6	%	10/28/1998	81-129	jap	62	SW 8260A
Toluene-d8 (Surr)	91.6	%	10/28/1998	74-129	jap	62	SW 8260A
4-Bromofluoromethane (Surr)	99.6	%	10/28/1998	70-130	jap	62	SW 8260A
Prep, 8310 PHAs NON-AQUEOUS	extracted		10/29/1998		nmv	764	SW 3540C



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

Sample No. : 498654

NET Job No.: 98.13465

Sample Description: Sed-12  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No. Prep/Run	Analytical Method
<b>PNA CMPDS - 8310 NONAQUEOUS</b>							
Acenaphthene	<0.027	mg/kg dw	11/03/1998	0.027	kdw	764 1824	SW 8310
Acenaphthylene	<0.027	mg/kg dw	11/03/1998	0.027	kdw	764 1824	SW 8310
Anthracene	<0.055	mg/kg dw	11/03/1998	0.055	kdw	764 1824	SW 8310
Benzo(a)anthracene	<0.0036	mg/kg dw	11/03/1998	0.0036	kdw	764 1824	SW 8310
Benzo(b)fluoranthene	<0.0049	mg/kg dw	11/03/1998	0.0049	kdw	764 1824	SW 8310
Benzo(k)fluoranthene	<0.0047	mg/kg dw	11/03/1998	0.0047	kdw	764 1824	SW 8310
Benzo(a)pyrene	<0.0063	mg/kg dw	11/03/1998	0.0063	kdw	764 1824	SW 8310
Benzo(ghi)perylene	<0.055	mg/kg dw	11/03/1998	0.055	kdw	764 1824	SW 8310
Chrysene	<0.04	mg/kg dw	11/03/1998	0.04	kdw	764 1824	SW 8310
Dibenzo(a,h)anthracene	<0.008	mg/kg dw	11/03/1998	0.008	kdw	764 1824	SW 8310
Fluoranthene	<0.027	mg/kg dw	11/03/1998	0.027	kdw	764 1824	SW 8310
Fluorene	<0.027	mg/kg dw	11/03/1998	0.027	kdw	764 1824	SW 8310
Indeno(1,2,3-cd)pyrene	<0.012	mg/kg dw	11/03/1998	0.012	kdw	764 1824	SW 8310
Naphthalene	<0.034	mg/kg dw	11/03/1998	0.034	kdw	764 1824	SW 8310
Phenanthrene	<0.055	mg/kg dw	11/03/1998	0.055	kdw	764 1824	SW 8310
Pyrene	<0.027	mg/kg dw	11/03/1998	0.027	kdw	764 1824	SW 8310
Surr: p-Terphenyl	97.7	%	11/03/1998	43-125	kdw	764 1824	SW 8310
PCB Non-Aqueous Extraction	COMPLETE		10/28/1998	COMPLETE	wna	377	SW 3540C
<b>PCB'S NON-AQUEOUS</b>							
PCB-1016	<0.055	mg/kg dw	11/06/1998	0.055	btl	377 56	SW 8082
PCB-1221	<0.055	mg/kg dw	11/06/1998	0.055	btl	377 56	SW 8082
PCB-1232	<0.055	mg/kg dw	11/06/1998	0.055	btl	377 56	SW 8082
PCB-1242	<0.055	mg/kg dw	11/06/1998	0.055	btl	377 56	SW 8082
PCB-1248	<0.055	mg/kg dw	11/06/1998	0.055	btl	377 56	SW 8082
PCB-1254	<0.055	mg/kg dw	11/06/1998	0.055	btl	377 56	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998  
Sample No. : 498654  
NET Job No.: 98.13465

Sample Description: Sed-12  
ComEd-Powerton; 1801-023-510

Date Taken: 10/15/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 10/16/1998  
Time Received: 17:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
PCB-1260	<0.055	mg/kg dw	11/06/1998	0.055	btl	377 56	SW 8082
Decachlorobiphenyl (Surr)	85.0	%	11/06/1998	NA	btl	377 56	SW 8082
2,4,5,6-TCMX (Surr)	91.0	%	11/06/1998	NA	btl	377 56	SW 8082



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
pH, Non-Aqueous	180	7.00	7.00	100.0
pH, Non-Aqueous	181	7.00	7.00	100.0
pH, Non-Aqueous	182	7.00	7.00	100.0
Arsenic, GFAA	669	0.0250	0.0250	100.0
Arsenic, GFAA	670	0.0250	0.0258	103.2
Arsenic, GFAA	671	0.0250	0.0262	104.8
Barium, ICP	2175	2.00	2.13	106.5
Barium, ICP	2176	2.00	2.15	107.5
Cadmium, ICP	2161	1.00	1.03	103.0
Cadmium, ICP	2169	1.00	0.952	95.2
Chromium, ICP	2146	2.00	2.10	105.0
Chromium, ICP	2147	2.00	2.13	106.5
Lead, ICP	2385	2.00	1.92	96.0
Lead, ICP	2392	2.00	1.90	95.0
Mercury, CVAA	768	0.0025	0.00253	101.2
Selenium, GFAA	556	0.0500	0.0516	103.2
Selenium, GFAA	557	0.0500	0.0504	100.8
Selenium, GFAA	559	0.0500	0.0482	96.4
Silver, AA	568	0.500	0.489	97.8
UST VOLATILES NON-AQUEOUS				
Benzene	53	50.0	58.4	116.8
Ethylbenzene	53	50.0	57.3	114.6
Toluene	53	50.0	56.7	113.4
Xylenes, Total	53	150	163	108.7
UST VOLATILES NON-AQUEOUS				
Benzene	54	50.0	55.2	110.4
Ethylbenzene	54	50.0	54.6	109.2
Toluene	54	50.0	54.8	109.6
Xylenes, Total	54	150	158	105.3
UST VOLATILES NON-AQUEOUS				
Benzene	61	50.0	50.2	100.4
Ethylbenzene	61	50.0	50.3	100.6
Toluene	61	50.0	49.5	99.0
Xylenes, Total	61	150	150	100.0

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
UST VOLATILES NON-AQUEOUS				
Benzene	62	50.0	51.8	103.6
Ethylbenzene	62	50.0	52.0	104.0
Toluene	62	50.0	50.3	100.6
Xylenes, Total	62	150	155	103.3
PHA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1824	5000	4,629	92.6
Acenaphthylene	1824	5000	5,127	102.5
Anthracene	1824	5000	5,201	104.0
Benzo(a)anthracene	1824	5000	4,952	99.0
Benzo(b)fluoranthene	1824	5000	4,900	98.0
Benzo(k)fluoranthene	1824	5000	4,887	97.7
Benzo(a)pyrene	1824	5000	5,066	101.3
Benzo(ghi)perylene	1824	5000	5,018	100.4
Chrysene	1824	5000	4,989	99.8
Dibenzo(a,h)anthracene	1824	5000	5,011	100.2
Fluoranthene	1824	5000	5,039	100.8
Fluorene	1824	5000	4,902	98.0
Indeno(1,2,3-cd)pyrene	1824	5000	4,814	96.3
Naphthalene	1824	5000	4,941	98.8
Phenanthrene	1824	5000	4,821	96.4
Pyrene	1824	5000	5,190	103.8
Surr: p-Terphenyl	1824	5000	4,887	97.7
PHA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1826	5000	4,861	97.2
Acenaphthylene	1826	5000	5,156	103.1
Anthracene	1826	5000	5,268	105.4
Benzo(a)anthracene	1826	5000	5,208	104.2
Benzo(b)fluoranthene	1826	5000	4,888	97.8
Benzo(k)fluoranthene	1826	5000	5,024	100.5
Benzo(a)pyrene	1826	5000	4,960	99.2
Benzo(ghi)perylene	1826	5000	5,082	101.6
Chrysene	1826	5000	5,152	103.0
Dibenzo(a,h)anthracene	1826	5000	5,085	101.7

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Fluoranthene	1826	5000	5,135	102.7
Fluorene	1826	5000	5,050	101.0
Indeno(1,2,3-cd)pyrene	1826	5000	5,185	103.7
Naphthalene	1826	5000	4,685	93.7
Phenanthrene	1826	5000	5,175	103.5
Pyrene	1826	5000	5,014	100.3
Surr: p-Terphenyl	1826	5000	5,060	101.2
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1829	5000	4,813	96.3
Acenaphthylene	1829	5000	4,992	99.8
Anthracene	1829	5000	5,087	101.7
Benzo(a)anthracene	1829	5000	5,112	102.2
Benzo(b)fluoranthene	1829	5000	4,846	96.9
Benzo(k)fluoranthene	1829	5000	4,904	98.1
Benzo(a)pyrene	1829	5000	4,725	94.5
Benzo(ghi)perylene	1829	5000	5,015	100.3
Dibenzo(a,h)anthracene	1829	5000	4,991	99.8
Fluoranthene	1829	5000	5,024	100.5
Fluorene	1829	5000	4,930	98.6
Indeno(1,2,3-cd)pyrene	1829	5000	5,040	100.8
Naphthalene	1829	5000	4,758	95.2
Phenanthrene	1829	5000	5,038	100.8
Pyrene	1829	5000	4,951	99.0
Surr: p-Terphenyl	1829	5000	4,861	97.2
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1829	5000	4,818	96.4
Acenaphthylene	1829	5000	5,018	100.4
Anthracene	1829	5000	5,159	103.2
Benzo(a)anthracene	1829	5000	5,126	102.5
Benzo(b)fluoranthene	1829	5000	4,817	96.3
Benzo(k)fluoranthene	1829	5000	4,920	98.4
Benzo(a)pyrene	1829	5000	4,824	96.5
Benzo(ghi)perylene	1829	5000	5,056	101.1
Dibenzo(a,h)anthracene	1829	5000	5,038	100.8

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Fluoranthene	1829	5000	4,981	99.6
Fluorene	1829	5000	4,957	99.1
Indeno(1,2,3-cd)pyrene	1829	5000	5,056	101.1
Naphthalene	1829	5000	4,736	94.7
Phenanthrene	1829	5000	5,051	101.0
Pyrene	1829	5000	4,895	97.9
Surr: p-Terphenyl	1829	5000	4,928	98.6
PNA CMPDS - 8310 NONAQUEOUS				
Acenaphthene	1829	5000	4,866	97.3
Acenaphthylene	1829	5000	5,117	102.3
Anthracene	1829	5000	5,203	104.1
Benzo(a)anthracene	1829	5000	5,190	103.8
Benzo(b)fluoranthene	1829	5000	4,902	98.0
Benzo(k)fluoranthene	1829	5000	4,836	96.7
Benzo(a)pyrene	1829	5000	4,837	96.7
Benzo(ghi)perylene	1829	5000	5,081	101.6
Dibenzo(a,h)anthracene	1829	5000	5,051	101.0
Fluoranthene	1829	5000	5,057	101.1
Fluorene	1829	5000	5,018	100.4
Indeno(1,2,3-cd)pyrene	1829	5000	5,147	102.9
Naphthalene	1829	5000	4,940	98.8
Phenanthrene	1829	5000	5,104	102.1
Pyrene	1829	5000	5,003	100.1
Surr: p-Terphenyl	1829	5000	4,916	98.3
PNA CMPDS - 8310 NONAQUEOUS				
Chrysene	1831	5000	5,048	101.0
PNA CMPDS - 8310 NONAQUEOUS				
Chrysene	1831	5000	5,090	101.8
PNA CMPDS - 8310 NONAQUEOUS				
Chrysene	1831	5000	4,976	99.5
PCB'S NON-AQUEOUS				
PCB-1016	49	500	464.	92.8
PCB-1260	49	500	448.	89.6
PCB'S NON-AQUEOUS				

CCV - Continuing Calibration Verification





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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
PCB-1016	49	500	551.	110.2
PCB-1260	49	500	534.	106.8
PCB'S NON-AQUEOUS				
PCB-1016	49	500	549.	109.8
PCB-1260	49	500	553.	110.6
PCB'S NON-AQUEOUS				
PCB-1016	55	500	486	97.2
PCB-1260	55	500	458	91.6
PCB'S NON-AQUEOUS				
PCB-1016	55	500	491	98.2
PCB-1260	55	500	467	93.4
PCB'S NON-AQUEOUS				
PCB-1016	56	500	521	104.2
PCB-1260	56	500	515	103.0
PCB'S NON-AQUEOUS				
PCB-1016	56	500	514	102.8
PCB-1260	56	500	502	100.4

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Prep	Run	Blank	Units	Reporting	Analytical
	Batch	Batch	Analysis			
	Number	Number	Results		Limit	Method
Arsenic, GFAA	230	669	<0.50	mg/Kg	0.50	SW 7060
Arsenic, GFAA	231	670	<0.50	mg/Kg	0.50	SW 7060
Barium, ICP	1160	2175	<1.0	mg/Kg	1.0	SW 6010B
Barium, ICP	1161	2176	<1.0	mg/Kg	1.0	SW 6010B
Cadmium, ICP	1160	2161	<0.50	mg/Kg	0.50	SW 6010B
Cadmium, ICP	1161	2162	<0.50	mg/Kg	0.50	SW 6010B
Chromium, ICP	1160	2146	<2.0	mg/Kg	2.0	SW 6010B
Chromium, ICP	1161	2147	<2.0	mg/Kg	2.0	SW 6010B
Lead, ICP	1160	2385	<4.0	mg/Kg	4.0	SW 6010B
Lead, ICP	1161	2392	<4.0	mg/Kg	4.0	SW 6010B
Mercury, CVAA	664	768	<0.040	mg/Kg	0.040	SW 7471A
Selenium, GFAA	230	556	<0.25	mg/Kg	0.25	SW 7740
Selenium, GFAA	231	557	<0.25	mg/Kg	0.25	SW 7740
Silver, AA	487	568	<2.0	mg/Kg	2.0	SW 7760
Silver, AA	488	568	<2.0	mg/Kg	2.0	SW 7760
TPH MODIFIED 8015						SW 8015M
TPH as Gas	240	485	<50	mg/Kg	50	SW 8015M
TPH as Diesel	240	485	<50	mg/Kg	50	SW 8015M
TPH as Oil	240	485	<50	mg/Kg	50	SW 8015M
N-octacosane (TPH surr)	240	485	107.0	%		SW 8015M
TPH MODIFIED 8015						SW 8015M
TPH as Gas	243	485	<50.	mg/Kg	50	SW 8015M
TPH as Diesel	243	485	<50.	mg/Kg	50	SW 8015M
TPH as Oil	243	485	<50.	mg/Kg	50	SW 8015M
N-octacosane (TPH surr)	243	485	106.0	%		SW 8015M
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		53	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		53	<0.005	mg/Kg	0.005	SW 8260A
Toluene		53	<0.005	mg/Kg	0.005	SW 8260A

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Xylenes, Total		53	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		53	108.0	%	74-134	SW 8260A
Toluene-d8 (Surr)		53	108.0	%	90-134	SW 8260A
4-Bromofluoromethane (Surr)		53	104.6	%	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		54	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		54	<0.005	mg/Kg	0.005	SW 8260A
Toluene		54	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		54	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		54	96.4	%	74-134	SW 8260A
Toluene-d8 (Surr)		54	107.4	%	90-134	SW 8260A
4-Bromofluoromethane (Surr)		54	104.6	%	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		61	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		61	<0.005	mg/Kg	0.005	SW 8260A
Toluene		61	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		61	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		61	89.2	%	74-134	SW 8260A
Toluene-d8 (Surr)		61	90.8	%	90-134	SW 8260A
4-Bromofluoromethane (Surr)		61	98.0	%	64-131	SW 8260A
UST VOLATILES NON-AQUEOUS						SW 8260A
Benzene		62	<0.005	mg/Kg	0.005	SW 8260A
Ethylbenzene		62	<0.005	mg/Kg	0.005	SW 8260A
Toluene		62	<0.005	mg/Kg	0.005	SW 8260A
Xylenes, Total		62	<0.005	mg/Kg	0.005	SW 8260A
Dibromofluoromethane (Surr)		62	96.0	%	74-134	SW 8260A
Toluene-d8 (Surr)		62	95.6	%	90-134	SW 8260A
4-Bromofluoromethane (Surr)		62	103.0	%	64-131	SW 8260A
PNA CMPOS - 8310 NONAQUEOUS						SW 8310

#### Advisory Control Limits for Blanks:

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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Acenaphthene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Acenaphthylene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Anthracene	764	1824	<0.040	mg/Kg	0.040	SW 8310
Benzo(a)anthracene	764	1824	<0.0026	mg/Kg	0.0026	SW 8310
Benzo(b)fluoranthene	764	1824	<0.0036	mg/Kg	0.0036	SW 8310
Benzo(k)fluoranthene	764	1824	<0.0034	mg/Kg	0.0034	SW 8310
Benzo(a)pyrene	764	1824	<0.0046	mg/Kg	0.0046	SW 8310
Benzo(ghi)perylene	764	1824	<0.040	mg/Kg	0.040	SW 8310
Chrysene	764	1824	<0.03	mg/Kg	0.03	SW 8310
Dibenzo(a,h)anthracene	764	1824	<0.006	mg/Kg	0.006	SW 8310
Fluoranthene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Fluorene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Indeno(1,2,3-cd)pyrene	764	1824	<0.0086	mg/Kg	0.0086	SW 8310
Naphthalene	764	1824	<0.025	mg/Kg	0.025	SW 8310
Phenanthrene	764	1824	<0.040	mg/Kg	0.040	SW 8310
Pyrene	764	1824	<0.020	mg/Kg	0.020	SW 8310
Surr: p-Terphenyl	764	1824	80.9	%	43-125	SW 8310
<b>PCB'S NON-AQUEOUS</b>						SW 8082
PCB-1016	374	51	<0.040	mg/Kg	0.040	SW 8082
PCB-1221	374	51	<0.040	mg/Kg	0.040	SW 8082
PCB-1232	374	51	<0.040	mg/Kg	0.040	SW 8082
PCB-1242	374	51	<0.040	mg/Kg	0.040	SW 8082
PCB-1248	374	51	<0.040	mg/Kg	0.040	SW 8082
PCB-1254	374	51	<0.040	mg/Kg	0.040	SW 8082
PCB-1260	374	51	<0.040	mg/Kg	0.040	SW 8082
Decachlorobiphenyl (Surr)	374	51	75.0	%	NA	SW 8082
2,4,5,6-TCMX (Surr)	374	51	65.0	%	NA	SW 8082

#### Advisory Control Limits for Blanks:

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**QUALITY CONTROL REPORT**

**LABORATORY CONTROL STANDARD**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Arsenic, GFAA	230	669	0.0100	0.0092	92.0
Arsenic, GFAA	231	670	0.0100	0.0087	87.0
Barium, ICP	1160	2175	5.00	4.91	98.2
Barium, ICP	1161	2176	5.00	5.56	111.2
Cadmium, ICP	1160	2161	2.50	2.68	107.2
Cadmium, ICP	1161	2162	2.50	2.86	114.4
Chromium, ICP	1160	2146	5.00	4.92	98.4
Chromium, ICP	1161	2147	5.00	5.38	107.6
Lead, ICP	1160	2385	5.00	5.00	100.0
Lead, ICP	1161	2392	5.00	5.95	119.0
Mercury, CVA	664	768	0.0025	0.00270	108.0
Mercury, CVA		768	0.0020	0.00224	112.0
Selenium, GFAA	230	556	0.0100	0.0105	105.0
Selenium, GFAA	231	557	0.0100	0.0092	92.0
Silver, AA	487	568	0.1	0.110	110.0
Silver, AA	488	568	0.1	0.106	106.0
TPH MODIFIED 8015					
TPH as Gas	240	485	250	177	70.8
TPH as Diesel	240	485	250	191	76.4
TPH as Oil	240	485	250	204	81.6
N-octacosane (TPH surr)	240	485	100	121	121.0
TPH MODIFIED 8015					
TPH as Gas	243	485	200	213	106.5
TPH as Diesel	243	485	200	227	113.5
TPH as Oil	243	485	200	216	108.0
N-octacosane (TPH surr)	243	485	100	112	112.0
UST VOLATILES NON-AQUEOUS					
Benzene		53	20.0	20.8	104.0
Ethylbenzene		53	20.0	21.7	108.5
Toluene		53	20.0	20.6	103.0
Xylenes, Total		53	60.0	62.0	103.3



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**QUALITY CONTROL REPORT**

**LABORATORY CONTROL STANDARD**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Dibromofluoromethane (Surr)		53	50.0	50.8	101.6
Toluene-d8 (Surr)		53	50.0	53.1	106.2
4-Bromofluoromethane (Surr)		53	50.0	51.7	103.4
UST VOLATILES NON-AQUEOUS					
Benzene		54	20.0	21.3	106.5
Ethylbenzene		54	20.0	21.2	106.0
Toluene		54	20.0	20.7	103.5
Xylenes, Total		54	60.0	61.1	101.8
Dibromofluoromethane (Surr)		54	50.0	50.2	100.4
Toluene-d8 (Surr)		54	50.0	53.3	106.6
4-Bromofluoromethane (Surr)		54	50.0	51.6	103.2
UST VOLATILES NON-AQUEOUS					
Benzene		61	20.0	20.6	103.0
Ethylbenzene		61	20.0	22.3	111.5
Toluene		61	20.0	20.9	104.5
xylenes, Total		61	60.0	61.9	103.2
Dibromofluoromethane (Surr)		61	50.0	47.4	94.8
Toluene-d8 (Surr)		61	50.0	47.9	95.8
4-Bromofluoromethane (Surr)		61	50.0	51.0	102.0
UST VOLATILES NON-AQUEOUS					
Benzene		62	20.0	21.5	107.5
Ethylbenzene		62	20.0	22.2	111.0
Toluene		62	20.0	21.3	106.5
Xylenes, Total		62	60.0	66.8	111.3
Dibromofluoromethane (Surr)		62	50.0	48.4	96.8
Toluene-d8 (Surr)		62	50.0	48.8	97.6
4-Bromofluoromethane (Surr)		62	50.0	50.9	101.8
PNA CMPDS - 8310 NONAQUEOUS					
Acenaphthene	764	1824	0.033	0.029	87.9
Acenaphthylene	764	1824	0.033	0.028	84.8
Anthracene	764	1824	0.033	0.028	84.8



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Benzo(a)anthracene	764	1824	0.033	0.029	87.9
Benzo(b)fluoranthene	764	1824	0.033	0.029	87.9
Benzo(k)fluoranthene	764	1824	0.033	0.029	87.9
Benzo(a)pyrene	764	1824	0.033	0.030	90.9
Benzo(ghi)perylene	764	1824	0.033	0.029	87.9
Chrysene	764	1824	0.033	0.030	90.9
Dibenzo(a,h)anthracene	764	1824	0.033	0.029	87.9
Fluoranthene	764	1824	0.033	0.029	87.9
Fluorene	764	1824	0.033	0.030	90.9
Indeno(1,2,3-cd)pyrene	764	1824	0.033	0.029	87.9
Naphthalene	764	1824	0.033	0.027	81.8
Phenanthrene	764	1824	0.033	0.029	87.9
Pyrene	764	1824	0.033	0.031	93.9
Surr: p-Terphenyl	764	1824	2000	1,767	88.3
PCB'S NON-AQUEOUS					
PCB-1016	374	51	500	486	97.2
PCB-1260	374	51	500	518	103.6
Decachlorobiphenyl (Surr)	374	51	100	91	91.0
2,4,5,6-TCMX (Surr)	374	51	100	81	81.0



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**QUALITY CONTROL REPORT**

**MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD	Spike	Percent	MS/MSD
	Batch	Batch	Spike									
<b>TPH MODIFIED 8015</b>												
TPH as Gas	243	488	181	<52	260	mg/kg	69.6	158	260	mg/kg	60.8	13.5
TPH as Oil	243	488	234	<52	260	mg/kg	90.0	198	260	mg/kg	76.0	16.9
<b>UST VOLATILES NON-AQUEOUS</b>												
Benzene		53	20.7	<0.005	20.0	mg/kg	103.5	22.2	20.0	mg/kg	111.0	7.0
Ethylbenzene		53	22.1	<0.005	20.0	mg/kg	110.5	26.1	20.0	mg/kg	130.5	16.6
Toluene		53	21.4	<0.005	20.0	mg/kg	107.0	24.5	20.0	mg/kg	122.5	13.5
Xylenes, Total		53	61.0	<0.005	60.0	mg/kg	101.7	69.7	60.0	mg/kg	116.2	13.3
<b>UST VOLATILES NON-AQUEOUS</b>												
Benzene		54	23.5	<0.005	20.0	mg/kg	117.5	18.4	20.0	mg/kg	92.0	24.2
Ethylbenzene		54	25.8	<0.005	20.0	mg/kg	129.0	25.3	20.0	mg/kg	126.5	2.0
Toluene		54	26.6	<0.005	20.0	mg/kg	133.0	22.6	20.0	mg/kg	113.0	16.3
Xylenes, Total		54	72.8	<0.005	60.0	mg/kg	121.3	72.0	60.0	mg/kg	120.0	1.1
<b>UST VOLATILES NON-AQUEOUS</b>												
Benzene		62	22.2	<0.005	20.0	mg/kg	111.0	23.6	20.0	mg/kg	118.0	6.1
Ethylbenzene		62	23.5	<0.005	20.0	mg/kg	117.5	25.3	20.0	mg/kg	126.5	7.4
Toluene		62	23.5	<0.005	20.0	mg/kg	117.5	24.4	20.0	mg/kg	122.0	3.8
Xylenes, Total		62	68.6	<0.005	60.0	mg/kg	114.3	74.7	60.0	mg/kg	124.5	8.5

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike  
MSD = Matrix Spike Duplicate  
RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.





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**QUALITY CONTROL REPORT**

**MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Prep	Run	Matrix	Sample	Spike	Units	Percent	MSD	MSD	Spike	Percent	MS/MSD
	Batch	Batch	Spike									
PNA CHPDS - 8310 NONAQUEOUS												
Acenaphthene	764	1824	0.027	<0.021	0.034	mg/kg	78.8	0.024	0.034	mg/kg	69.7	12.3
Acenaphthylene	764	1824	0.030	<0.021	0.034	mg/kg	87.9	0.026	0.034	mg/kg	75.8	14.8
Anthracene	764	1824	<0.040	<0.042	0.034	mg/kg	87.9	<0.040	0.034	mg/kg	75.8	14.8
Benzo(b)fluoranthene	764	1824	0.045	0.021	0.034	mg/kg	69.7	0.036	0.034	mg/kg	45.5	42.0
Benzo(k)fluoranthene	764	1824	0.048	<0.017	0.034	mg/kg	139.4	0.032	0.034	mg/kg	93.9	38.9
Benzo(a)pyrene	764	1824	0.042	<0.022	0.034	mg/kg	121.2	0.034	0.034	mg/kg	100.0	19.2
Benzo(ghi)perylene	764	1824	0.051	<0.042	0.034	mg/kg	148.5	0.042	0.034	mg/kg	121.2	20.2
Chrysene	764	1824	0.043	<0.03	0.034	mg/kg	124.2	0.036	0.034	mg/kg	106.1	15.7
Dibenzo(a,h)anthracene	764	1824	0.027	<0.006	0.034	mg/kg	78.8	0.022	0.034	mg/kg	63.6	21.3
Fluoranthene	764	1824	0.060	0.040	0.034	mg/kg	60.6	0.051	0.034	mg/kg	33.3	58.1
Fluorene	764	1824	0.027	<0.021	0.034	mg/kg	78.8	0.024	0.034	mg/kg	69.7	12.3
Indeno(1,2,3-cd)pyrene	764	1824	0.031	0.014	0.034	mg/kg	51.5	0.025	0.034	mg/kg	33.3	42.9
Naphthalene	764	1824	0.029	<0.026	0.034	mg/kg	84.8	<0.025	0.034	mg/kg	69.7	19.5
Phenanthrene	764	1824	0.045	<0.042	0.034	mg/kg	130.3	<0.040	0.034	mg/kg	109.1	17.7
Pyrene	764	1824	0.059	0.037	0.034	mg/kg	63.6	0.051	0.034	mg/kg	39.4	47.0

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.



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**QUALITY CONTROL REPORT**

**MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Prep	Run	Matrix	Sample Result	Spike Amount	Units	Percent Recovery	MSD Result	MSD		Percent Recovery	MS/MS RPD
	Batch Number	Batch Number	Spike Result						Spike Amount	Units		
PCB'S NON-AQUEOUS												
PCB-1016	374	49	354	<0.045	567	mg/kg	62.4	247	567	mg/kg	43.6	35.5
PCB-1260	374	49	0.37	0.212	0.189	mg/kg	85.6	0.32	0.189	mg/kg	55.7	42.3
PCB'S NON-AQUEOUS												
PCB-1016	374	49	463	<0.045	567	mg/kg	81.6	484	567	mg/kg	85.4	4.6
PCB-1260	374	49	480	<0.045	567	mg/kg	84.6	520	567	mg/kg	91.8	8.2
PCB'S NON-AQUEOUS												
PCB-1016	377	56	767	<0.090	1,120	mg/kg	68.4	886	1,120	mg/kg	79.0	14.4
PCB-1260	377	56	863	<0.090	1,120	mg/kg	77.0	1,020	1,120	mg/kg	90.6	16.2

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike  
MSD = Matrix Spike Duplicate  
RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.



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**QUALITY CONTROL REPORT**

**DUPLICATES**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/08/1998

NET Job Number: 98.13465

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Original Analysis	Duplicate Analysis	Units	RPD
pH, Non-Aqueous		180	8.29	8.30	units	0.1
pH, Non-Aqueous		180	8.44	8.44	units	0.0
pH, Non-Aqueous		181	8.58	8.58	units	0.0
Solids, Total		2511	49.4	50.3	%	1.8
Solids, Total		2511	44.6	47.6	%	6.5
Solids, Total		2511	80.4	79.6	%	1.0

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.



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NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
- mg/L : Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
- ug/g : Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
- ug/L : Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
- ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
- TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
- Surr: : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
- % : Percent; To convert ppm to %, divide the result by 10,000.  
To convert % to ppm, multiply the result by 10,000.
- ICP : Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
- AA : Indicates analysis was performed using Atomic Absorption Spectroscopy.
- GFAA : Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
- 
- PQL : Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

- (1) Methods 1000 through 9999; see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
- (2) ASTM "American Society for Testing Materials"
- (3) Methods 100 through 499; see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
- (4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
- (5) Methods 600 through 625; see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- (6) Methods 500 through 599; see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.



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- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
  - (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, including Updates I and II.
  - (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.



NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY EAISR Corporation  
 ADDRESS 740 Pasquidelli  
 PHONE 887-1200 FAX 830-5307  
 PROJECT NAME/LOCATION Comed - Puckerton  
 PROJECT NUMBER 1801-023-50  
 PROJECT MANAGER Wei-Lin Feng

REPORT TO: Wei-Lin  
 INVOICE TO: \_\_\_\_\_  
 P.O. NO. \_\_\_\_\_  
 NET QUOTE NO. \_\_\_\_\_

SAMPLED BY: Lisa Rutkowski SIGNATURE: [Signature]  
 (PRINT NAME) SIGNATURE

DATE	TIME	SAMPLE DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers						COMMENTS								
						H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	NaOH	HCl	OTHER	NPDES Wastewater		Drinking Water	None						
10/14/99	0900	Sed-1	X																	
	1000	Sed-2																		
	1100	Sed-3																		
	1200	Sed-4																		
	1300	Sed-5																		
	1400	Sed-6																		
	1500	Sed-7																		
10/15/99	0800	Sed-8																		
	0900	Sed-9																		
	1000	Sed-10																		
	1100	Sed-11																		
	1200	Sed-12																		

To assist us in selecting the proper method  
 Is this work being conducted for regulatory compliance monitoring? Yes \_\_\_ No \_\_\_  
 Is this work being conducted for regulatory enforcement action? Yes \_\_\_ No \_\_\_  
 Which regulations apply: RCRA \_\_\_ NPDES Wastewater \_\_\_  
 UST \_\_\_ Drinking Water \_\_\_  
 Other \_\_\_ None \_\_\_

CONDITION OF SAMPLE: BOTTLES INTACT? (YES) NO ( ) FIELD FILTERED? YES ( ) NO ( )  
 SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA \_\_\_\_\_  
 I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS \_\_\_\_\_  
 TEMPERATURE UPON RECEIPT: 3.30C water  
 Bottles supplied by NET? (YES) NO ( )

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RECEIVED FOR NET BY:
<u>[Signature]</u>	<u>10/14/99</u>	<u>1430</u>	<u>[Signature]</u>	<u>10/16/99</u>	<u>1700</u>	<u>[Signature]</u>





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(800) 807-2877

Mr. Weilin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14171

IEPA Cert. No.: 100221  
WDNR Cert. No.: 999447130  
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: ComEd-Powerton; 1801-023 - 510

Sample Number	Sample Description	Date Taken	Date Received
501009	MW-1	11/02/1998	11/03/1998
501010	MW-2	11/02/1998	11/03/1998
501011	MW-3	11/02/1998	11/03/1998

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson  
Project Manager





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**ANALYTICAL REPORT**

Mr. Weilin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 501009

NET Job No.: 98.14171

Sample Description: MW-1  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 11:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	7.24	units	11/03/1998	0.10	efw	1724	EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/05/1998	0.0050	out	1148	SW 7060
Barium, ICP	0.113	mg/L	11/06/1998	0.020	jtc	2205 3774	SW 6010B
Cadmium, ICP	<0.010	mg/L	11/06/1998	0.010	jtc	2205 3741	SW 6010B
Chromium, ICP	<0.040	mg/L	11/06/1998	0.040	jtc	2205 3752	SW 6010B
Lead, GFAA	<0.0050	mg/L	11/05/1998	0.0050	out	2174	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/09/1998	0.0002	sep	1189 1095	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/06/1998	0.0050	out	859	SW 7740
Silver, AA	<0.040	mg/L	11/06/1998	0.040	sep	1017 995	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		11/05/1998		vna	371	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/06/1998	0.0005	cls	371 703	SW 8082
PCB-1221	<0.0005	mg/L	11/06/1998	0.0005	cls	371 703	SW 8082
PCB-1232	<0.0005	mg/L	11/06/1998	0.0005	cls	371 703	SW 8082
PCB-1242	<0.0005	mg/L	11/06/1998	0.0005	cls	371 703	SW 8082
PCB-1248	<0.0005	mg/L	11/06/1998	0.0005	cls	371 703	SW 8082
PCB-1254	<0.0005	mg/L	11/06/1998	0.0005	cls	371 703	SW 8082
PCB-1260	<0.0005	mg/L	11/06/1998	0.0005	cls	371 703	SW 8082
Surr: Tetrachloroxylene (TCX)	83.0	%	11/06/1998	22-154	cls	371 703	SW 8082
Surr: Decachlorobiphenyl (DCB)	72.0	%	11/06/1998	23-154	cls	371 703	SW 8082



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**ANALYTICAL REPORT**

Mr. Weilin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 501009

NET Job No.: 98.14171

Sample Description: MW-1  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 11:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
UST VOLATILES 8260 - AQUEOUS							
Benzene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Toluene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Xylenes, Total	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Surr: Toluene-d8	96.0	†	11/11/1998	85-117	pll	2649	SW 8260A
Surr: Bromofluorobenzene	88.0	†	11/11/1998	80-116	pll	2649	SW 8260A
Prep, 8310 PNAs AQUEOUS	extracted		11/05/1998		mmv	409	SW 3520C
PNA CMPDS - 8310 AQUEOUS							
Acenaphthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Acenaphthylene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Anthracene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/07/1998	0.00013	keh	409 1207	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/07/1998	0.00018	keh	409 1207	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/07/1998	0.00017	keh	409 1207	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/07/1998	0.00023	keh	409 1207	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/07/1998	0.00076	keh	409 1207	SW 8310
Chrysene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/07/1998	0.00030	keh	409 1207	SW 8310
Fluoranthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Fluorene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/07/1998	0.00043	keh	409 1207	SW 8310
Naphthalene	0.00059	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Phenanthrene	<0.0010	mg/L	11/07/1998	0.0010	keh	409 1207	SW 8310
Pyrene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310



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## ANALYTICAL REPORT

Mr. Weilin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 501009

NET Job No.: 98.14171

Sample Description: MW-1  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 12:00  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 11:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
Surr: p-Terphenyl	89.7	µ	11/07/1998	43-125	keh	409 1207	SW 8310



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**ANALYTICAL REPORT**

Mr. Weilin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 501010

NET Job No.: 98.14171

Sample Description: MW-2  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 12:30  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 11:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	7.22	units	11/03/1998	0.10	efw	1724	EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/05/1998	0.0050	out	1148	SW 7060
Barium, ICP	0.097	mg/L	11/06/1998	0.020	jtc	2205 3774	SW 6010B
Cadmium, ICP	<0.010	mg/L	11/06/1998	0.010	jtc	2205 3741	SW 6010B
Chromium, ICP	<0.040	mg/L	11/06/1998	0.040	jtc	2205 3752	SW 6010B
Lead, GFAA	<0.0050	mg/L	11/05/1998	0.0050	out	2174	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/09/1998	0.0002	sep	1189 1095	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/06/1998	0.0050	out	859	SW 7740
Silver, AA	<0.040	mg/L	11/06/1998	0.040	sep	1017 995	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		11/05/1998		vna	371	SW 3510C
PCBs 8082 Aqueous							
<del>PCB-1016</del>	<del>&lt;0.0005</del>	<del>mg/L</del>	<del>11/07/1998</del>	<del>0.0005</del>	<del>cls</del>	<del>371 703</del>	<del>SW 8082</del>
PCB-1221	<0.0005	mg/L	11/07/1998	0.0005	cls	371 703	SW 8082
PCB-1232	<0.0005	mg/L	11/07/1998	0.0005	cls	371 703	SW 8082
PCB-1242	<0.0005	mg/L	11/07/1998	0.0005	cls	371 703	SW 8082
PCB-1248	<0.0005	mg/L	11/07/1998	0.0005	cls	371 703	SW 8082
PCB-1254	<0.0005	mg/L	11/07/1998	0.0005	cls	371 703	SW 8082
PCB-1260	<0.0005	mg/L	11/07/1998	0.0005	cls	371 703	SW 8082
Surr: Tetrachloroxylene (TCX)	89.0	%	11/07/1998	22-154	cls	371 703	SW 8082
Surr: Decachlorobiphenyl (DCB)	74.0	%	11/07/1998	23-154	cls	371 703	SW 8082



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**ANALYTICAL REPORT**

Mr. Weilin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 501010

NET Job No.: 98.14171

Sample Description: MW-2  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 12:30  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 11:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>UST VOLATILES 8260 - AQUEOUS</b>							
Benzene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Toluene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Xylenes, Total	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Surr: Toluene-d8	100.0	†	11/11/1998	85-117	pll	2649	SW 8260A
Surr: Bromofluorobenzene	90.0	†	11/11/1998	80-116	pll	2649	SW 8260A
Prep. 8310 PNAs AQUEOUS	extracted		11/05/1998		mmv	409	SW 3520C
<b>PNA CMPS - 8310 AQUEOUS</b>							
Acenaphthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Acenaphthylene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Anthracene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/07/1998	0.00013	keh	409 1207	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/07/1998	0.00018	keh	409 1207	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/07/1998	0.00017	keh	409 1207	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/07/1998	0.00023	keh	409 1207	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/07/1998	0.00076	keh	409 1207	SW 8310
Chrysene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/07/1998	0.00030	keh	409 1207	SW 8310
Fluoranthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Fluorene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/07/1998	0.00043	keh	409 1207	SW 8310
Naphthalene	0.00053	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Phenanthrene	<0.0010	mg/L	11/07/1998	0.0010	keh	409 1207	SW 8310
Pyrene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310



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ANALYTICAL REPORT

Mr. Weilin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 501010  
NET Job No.: 98.14171

Sample Description: MW-2  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 12:30  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 11:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method	Analyst	Batch No.	Analytical Method
Surr: p-Terphenyl	83.1	μ	11/07/1998	43-125	keh	409 1207	SW 8310



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**ANALYTICAL REPORT**

Mr. Weilin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 501011  
NET Job No.: 98.14171

Sample Description: MW-3  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 13:00  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 11:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	7.26	units	11/03/1998	0.10	efw	1724	EPA 150.1
Arsenic, GFAA	0.011	mg/L	11/05/1998	0.0050	out	1148	SW 7060
Barium, ICP	0.195	mg/L	11/06/1998	0.020	jct	2205 3774	SW 60108
Cadmium, ICP	<0.010	mg/L	11/06/1998	0.010	jct	2205 3741	SW 60108
Chromium, ICP	<0.040	mg/L	11/06/1998	0.040	jct	2205 3752	SW 60108
Lead, GFAA	<0.0050	mg/L	11/05/1998	0.0050	out	2174	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/09/1998	0.0002	sep	1189 1095	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/06/1998	0.0050	out	859	SW 7740
Silver, AA	<0.040	mg/L	11/06/1998	0.040	sep	1017 995	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		11/05/1998		wna	371	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/07/1998	0.5	cls	371 703	SW 8082
PCB-1221	<0.0005	mg/L	11/07/1998	0.5	cls	371 703	SW 8082
PCB-1232	<0.0005	mg/L	11/07/1998	0.5	cls	371 703	SW 8082
PCB-1242	<0.0005	mg/L	11/07/1998	0.5	cls	371 703	SW 8082
PCB-1248	<0.0005	mg/L	11/07/1998	0.5	cls	371 703	SW 8082
PCB-1254	<0.0005	mg/L	11/07/1998	0.5	cls	371 703	SW 8082
PCB-1260	<0.0005	mg/L	11/07/1998	0.5	cls	371 703	SW 8082
Surr: Tetrachloroxylene (TCX)	70.0	%	11/07/1998	22-154	cls	371 703	SW 8082
Surr: Decachlorobiphenyl (DCB)	71.0	%	11/07/1998	23-154	cls	371 703	SW 8082



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**ANALYTICAL REPORT**

Mr. Weilin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 501011

NET Job No.: 98.14171

Sample Description: MW-3  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 13:00  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 11:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>UST VOLATILES 8260 - AQUEOUS</b>							
Benzene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Toluene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Xylenes, Total	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Surr: Toluene-d8	98.0	†	11/11/1998	85-117	pll	2649	SW 8260A
Surr: Bromofluorobenzene	92.0	†	11/11/1998	80-116	pll	2649	SW 8260A
<b>Prep. 8310 PNAs AQUEOUS</b>							
PNA CMPDS - 8310 AQUEOUS	extracted		11/05/1998		mmv	409	SW 3520C
Acenaphthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Acenaphthylene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Anthracene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/07/1998	0.00013	keh	409 1207	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/07/1998	0.00018	keh	409 1207	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/07/1998	0.00017	keh	409 1207	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/07/1998	0.00023	keh	409 1207	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/07/1998	0.00076	keh	409 1207	SW 8310
Chrysene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Dibenzo(a,b)anthracene	<0.00030	mg/L	11/07/1998	0.00030	keh	409 1207	SW 8310
Fluoranthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Fluorene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/07/1998	0.00043	keh	409 1207	SW 8310
Naphthalene	0.00069	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Phenanthrene	<0.0010	mg/L	11/07/1998	0.0010	keh	409 1207	SW 8310
Pyrene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310





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**ANALYTICAL REPORT**

Mr. Weilin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 501011  
NET Job No.: 98.14171

Sample Description: MW-3  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 13:00  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 11:00  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-Terphenyl	95.7	µ	11/07/1998	43-125	keh	409 1207	SW 8310



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14171

Mr. Weilin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
pH	1724	7.02	7.02	100.0
Arsenic, GFAA	1148	0.0500	0.0500	101.6
Arsenic, GFAA	1148	0.0500	0.0536	107.2
Barium, ICP	3774	2.00	2.09	104.5
Cadmium, ICP	3741	1.00	1.02	102.0
Chromium, ICP	3752	2.00	2.09	104.5
Lead, GFAA	2174	0.0250	0.0256	102.4
Lead, GFAA	2174	0.0250	0.0261	104.4
Mercury, CVAA	1095	0.0025	0.00237	94.8
Selenium, GFAA	859	0.0500	0.0513	102.6
Selenium, GFAA	859	0.0500	0.0530	106.0
Silver, AA	995	0.500	0.504	100.8
PCBs 8082 Aqueous				
PCB-1016	703	500.	485	97.0
PCB-1260	703	500	500	100.0
PCBs 8082 Aqueous				
PCB-1016	703	500.	479	95.8
PCB-1260	703	500	499	99.8
PCBs 8082 Aqueous				
PCB-1016	703	500.	494	98.8
PCB-1260	703	500	436	87.2
PCBs 8082 Aqueous				
PCB-1016	703	500.	505	101.0
PCB-1260	703	500	531	106.2
PCBs 8082 Aqueous				
PCB-1016	703	500.	505	101.0
PCB-1260	703	500	505	101.0
DST VOLATILES 8260 - AQUEOUS				
Benzene	2649	50.0	47.0	94.0
Ethyl Benzene	2649	50.0	45.0	90.0
Toluene	2649	50.0	44.0	88.0
Xylenes, Total	2649	150	136	90.7
PNA CMPDS - 8310 AQUEOUS				
Acenaphthene	1207	5000	4,792	95.8

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
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11/11/1998

NET Job Number: 98.14171

Mr. Weilin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Acenaphthylene	1207	5000	5,040	100.8
Anthracene	1207	5000	5,183	103.7
Benzo(a)anthracene	1207	5000	5,118	102.4
Benzo(b)fluoranthene	1207	5000	4,872	97.4
Benzo(k)fluoranthene	1207	5000	4,870	97.4
Benzo(a)pyrene	1207	5000	4,920	98.4
Benzo(ghi)perylene	1207	5000	5,057	101.1
Chrysene	1207	5000	5,092	101.8
Dibenzo(a,h)anthracene	1207	5000	4,995	99.9
Fluoranthene	1207	5000	5,169	103.4
Fluorene	1207	5000	5,000	100.0
Indeno(1,2,3-cd)pyrene	1207	5000	5,131	102.6
Naphthalene	1207	5000	4,753	95.1
Phenanthrene	1207	5000	5,074	101.5
Pyrene	1207	5000	5,056	101.1
Surr: p-Terphenyl	1207	5000	4,919	98.4
PNA CMPDS - 8310 AQUEOUS				
Acenaphthene	1207	5000	4,808	96.2
Acenaphthylene	1207	5000	5,094	101.9
Anthracene	1207	5000	5,118	102.4
Benzo(a)anthracene	1207	5000	5,155	103.1
Benzo(b)fluoranthene	1207	5000	4,881	97.6
Benzo(k)fluoranthene	1207	5000	5,079	101.6
Benzo(a)pyrene	1207	5000	4,873	97.5
Benzo(ghi)perylene	1207	5000	5,112	102.2
Chrysene	1207	5000	5,105	102.1
Dibenzo(a,h)anthracene	1207	5000	4,988	99.8
Fluoranthene	1207	5000	5,046	100.9
Fluorene	1207	5000	4,960	99.2
Indeno(1,2,3-cd)pyrene	1207	5000	5,068	101.4
Naphthalene	1207	5000	4,798	96.0
Phenanthrene	1207	5000	5,130	102.6
Pyrene	1207	5000	4,954	99.1
Surr: p-Terphenyl	1207	5000	4,949	99.0

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14171

Mr. Weilin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
PNA CMPDS - 8310 AQUEOUS				
Acenaphthene	1207	5000	4,856	97.1
Acenaphthylene	1207	5000	4,994	99.9
Anthracene	1207	5000	5,106	102.1
Benzo (a) anthracene	1207	5000	5,117	102.3
Benzo (b) fluoranthene	1207	5000	4,842	96.8
Benzo (k) fluoranthene	1207	5000	4,932	98.6
Benzo (a) pyrene	1207	5000	4,832	96.6
Benzo (ghi) perylene	1207	5000	5,104	102.1
Chrysene	1207	5000	5,096	101.9
Dibenzo (a, h) anthracene	1207	5000	4,966	99.3
Fluoranthene	1207	5000	5,044	100.9
Fluorene	1207	5000	4,953	99.1
Indeno (1, 2, 3-cd) pyrene	1207	5000	4,980	99.6
Naphthalene	1207	5000	4,701	94.0
Phenanthrene	1207	5000	5,055	101.1
Pyrene	1207	5000	4,914	98.3
Surr: p-Terphenyl	1207	5000	5,009	100.2

CCV - Continuing Calibration Verification



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**QUALITY CONTROL REPORT**

**BLANK ANALYSIS**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14171

Mr. Weilin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA		1148	<0.0050	mg/L	0.0050	SW 7060
Arsenic, GFAA		1148	<0.0050	mg/L	0.0050	SW 7060
Barium, ICP	2205	3774	<0.020	mg/L	0.020	SW 6010B
Cadmium, ICP	2205	3741	<0.010	mg/L	0.010	SW 6010B
Chromium, ICP	2205	3752	<0.040	mg/L	0.040	SW 6010B
Lead, GFAA		2174	<0.0050	mg/L	0.0050	SW 7421
Lead, GFAA		2174	<0.0050	mg/L	0.0050	SW 7421
Mercury, CVAA	1189	1095	<0.0002	mg/L	0.0002	SW 7470A
Mercury, CVAA	1189	1095	<0.0002	mg/L	0.0002	SW 7470A
Selenium, GFAA		859	<0.005	mg/L	0.005	SW 7740
Selenium, GFAA		859	<0.005	mg/L	0.005	SW 7740
Silver, AA	1017	995	<0.040	mg/L	0.040	SW 7760
PCBs 8082 Aqueous						SW 8082
PCB-1016	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1221	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1232	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1242	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1248	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1254	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1260	371	703	<0.0005	mg/L	0.5	SW 8082
Surr: Tetrachloroxylene (TCX)	371	703	50.0	†	22-154	SW 8082
Surr: Decachlorobiphenyl (DCB)	371	703	53.0	†	23-154	SW 8082
UST VOLATILES 8260 - AQUEOUS						SW 8260A
Benzene		2649	<1.0	ug/L	1.0	SW 8260A
Ethyl Benzene		2649	<1.0	ug/L	1.0	SW 8260A
Toluene		2649	<1.0	ug/L	1.0	SW 8260A
Xylenes, Total		2649	<1.0	ug/L	1.0	SW 8260A
Surr: Dibromofluoromethane		2649	98.0	†	75-130	SW 8260A
Surr: Toluene-d8		2649	100.0	†	85-117	SW 8260A

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14171

Mr. Weilin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Surr: Bromofluorobenzene		2649	94.0	µ	80-116	SW 8260A
PNA CMPDS - 8310 AQUEOUS						SW 8310
Acenaphthene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Acenaphthylene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Anthracene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Benzo(a)anthracene	409	1206	<0.00013	mg/L	0.00013	SW 8310
Benzo(b)fluoranthene	409	1206	<0.00018	mg/L	0.00018	SW 8310
Benzo(k)fluoranthene	409	1206	<0.00017	mg/L	0.00017	SW 8310
Benzo(a)pyrene	409	1206	<0.00023	mg/L	0.00023	SW 8310
Benzo(ghi)perylene	409	1206	<0.00076	mg/L	0.00076	SW 8310
Chrysene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Dibenzo(a,h)anthracene	409	1206	<0.00030	mg/L	0.00030	SW 8310
Fluoranthene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Fluorene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Indeno(1,2,3-cd)pyrene	409	1206	<0.00043	mg/L	0.00043	SW 8310
Naphthalene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Phenanthrene	409	1206	<0.0010	mg/L	0.0010	SW 8310
Pyrene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Surr: p-Terphenyl	409	1206	92.3	µ	43-125	SW 8310
PNA CMPDS - 8310 AQUEOUS						SW 8310
Acenaphthene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Acenaphthylene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Anthracene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Benzo(a)anthracene	409	1207	<0.00013	mg/L	0.00013	SW 8310
Benzo(b)fluoranthene	409	1207	<0.00018	mg/L	0.00018	SW 8310
Benzo(k)fluoranthene	409	1207	<0.00017	mg/L	0.00017	SW 8310
Benzo(a)pyrene	409	1207	<0.00023	mg/L	0.00023	SW 8310
Benzo(ghi)perylene	409	1207	<0.00076	mg/L	0.00076	SW 8310
Chrysene	409	1207	<0.0005	mg/L	0.0005	SW 8310

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14171

Mr. Weilin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Dibenzo(a,h)anthracene	409	1207	<0.00030	mg/L	0.00030	SW 8310
Fluoranthene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Fluorene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Indeno(1,2,3-cd)pyrene	409	1207	<0.00043	mg/L	0.00043	SW 8310
Naphthalene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Phenanthrene	409	1207	<0.0010	mg/L	0.0010	SW 8310
Pyrene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Surr: p-Terphenyl	409	1207	90.8	%	43-125	SW 8310

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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**QUALITY CONTROL REPORT**

**LABORATORY CONTROL STANDARD**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14171

Mr. Weilin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Arsenic, GFAA		1148	0.0500	0.0544	108.8
Barium, ICP	2205	3774	0.200	0.198	99.0
Cadmium, ICP	2205	3741	0.100	0.094	94.0
Chromium, ICP	2205	3752	0.20	0.198	99.0
Lead, GFAA		2174	0.0200	0.0214	107.0
Mercury, CVAA	1189	1095	0.0025	0.00260	104.0
Mercury, CVAA	1189	1095	0.0025	0.00260	104.0
Mercury, CVAA		1095	0.0020	0.00214	107.0
Selenium, GFAA		859	0.0500	0.0586	117.2
Silver, AA	1017	995	0.10	0.095	95.0
PCBs 8082 Aqueous					
PCB-1016	371	703	500	449	89.8
PCB-1260	371	703	500	427	85.4
Surr: Tetrachloroxylene (TCX)	371	703	100	45	45.0
Surr: Decachlorobiphenyl (DCB)	371	703	100	64	64.0
UST VOLATILES 8260 - AQUEOUS					
Benzene		2649	20.0	20.0	100.0
Ethyl-Benzene		2649	20.0	18.0	90.0
Toluene		2649	20.0	18.0	90.0
Xylenes, Total		2649	60.0	55.0	91.7
Surr: Dibromofluoromethane		2649	50.0	53.0	106.0
Surr: Toluene-d8		2649	50.0	50.0	100.0
Surr: Bromofluorobenzene		2649	50.0	47.0	94.0
PNA CMPS - 8310 AQUEOUS					
Acenaphthene	409	1206	0.001	0.000870	87.0
Acenaphthylene	409	1206	0.001	0.000962	96.2
Anthracene	409	1206	0.001	0.000945	94.5
Benzo (a) anthracene	409	1206	0.001	0.000946	94.6
Benzo (b) fluoranthene	409	1206	0.001	0.000867	86.7
Benzo (k) fluoranthene	409	1206	0.001	0.000909	90.9
Benzo (a) pyrene	409	1206	0.001	0.000865	86.5





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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14171

Mr. Weilin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
Benzo(ghi)perylene	409	1206	0.001	0.000985	98.5
Chrysene	409	1206	0.001	0.000955	95.5
Dibenzo(a,h)anthracene	409	1206	0.001	0.000936	93.6
Fluoranthene	409	1206	0.001	0.000970	97.0
Fluorene	409	1206	0.001	0.000938	93.8
Indeno(1,2,3-cd)pyrene	409	1206	0.001	0.000858	85.8
Naphthalene	409	1206	0.001	0.000955	95.5
Phenanthrene	409	1206	0.001	0.000854	85.4
Pyrene	409	1206	0.001	0.000958	95.8
Surr: p-Terphenyl	409	1206	2000	1,797	89.8
PNA CMPDS - 8310 AQUEOUS					
Acenaphthene	409	1207	0.001	0.000926	92.6
Acenaphthylene	409	1207	0.001	0.000976	97.6
Anthracene	409	1207	0.001	0.00102	102.0
Benzo(a)anthracene	409	1207	0.001	0.00103	103.0
Benzo(b)fluoranthene	409	1207	0.001	0.000964	96.4
Benzo(k)fluoranthene	409	1207	0.001	0.000964	96.4
Benzo(a)pyrene	409	1207	0.001	0.000903	90.3
Benzo(ghi)perylene	409	1207	0.001	0.000991	99.1
Chrysene	409	1207	0.001	0.00101	101.0
Dibenzo(a,h)anthracene	409	1207	0.001	0.000972	97.2
Fluoranthene	409	1207	0.001	0.000998	99.8
Fluorene	409	1207	0.001	0.000980	98.0
Indeno(1,2,3-cd)pyrene	409	1207	0.001	0.00104	104.0
Naphthalene	409	1207	0.001	0.000902	90.2
Phenanthrene	409	1207	0.001	0.0010	100.0
Pyrene	409	1207	0.001	0.000973	97.3
Surr: p-Terphenyl	409	1207	2000	1,922	96.1



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QUALITY CONTROL REPORT

DUPLICATES

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14171

Mr. Weilin Feng

Analyte	Prep Batch Number	Run Batch Number	Original Analysis	Duplicate Analysis	Units	RPD
pH		1724	7.68	7.75	units	0.9
pH		1724	8.11	8.10	units	0.1

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.

NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
- mg/L : Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
- ug/g : Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
- ug/L : Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
- ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
- TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
- Surr: : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
- % : Percent: To convert ppm to %, divide the result by 10,000.  
To convert % to ppm, multiply the result by 10,000.
- ICP : Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
- AA : Indicates analysis was performed using Atomic Absorption Spectroscopy.
- GFAA : Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
- PQL : Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

- (1) Methods 1000 through 9999; see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
- (2) ASTM "American Society for Testing Materials"
- (3) Methods 100 through 499; see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1981.
- (4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
- (5) Methods 600 through 625; see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- (6) Methods 500 through 599; see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

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(8) ~~See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.~~

(9) Methods 1000 through 9999; see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.

(10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.





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Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14170

IEPA Cert. No.: 100221  
WDNR Cert. No.: 999447130  
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: ComEd-Powerton; 1801-023-510

Sample Number	Sample Description	Date Taken	Date Received
501006	MW-5	11/02/1998	11/03/1998
501007	MW-6	11/02/1998	11/03/1998
501008	MW-7	11/02/1998	11/03/1998

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson  
Project Manager



**NATIONAL ENVIRONMENTAL TESTING, INC.**

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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 501006  
NET Job No.: 98.14170

Sample Description: MW-5  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 11:30  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 10:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	7.27	units	11/03/1998	0.10	efw	1724	EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/05/1998	0.0050	out	1148	SW 7060
Barium, ICP	0.069	mg/L	11/06/1998	0.020	jtt	2205 3774	SW 6010B
Cadmium, ICP	<0.010	mg/L	11/06/1998	0.010	jtt	2205 3741	SW 6010B
Chromium, ICP	<0.040	mg/L	11/06/1998	0.040	jtt	2205 3752	SW 6010B
Lead, GFAA	<0.0050	mg/L	11/05/1998	0.0050	out	2174	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/09/1998	0.0002	sep	1189 1095	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/06/1998	0.0050	out	859	SW 7740
Silver, AA	<0.040	mg/L	11/06/1998	0.040	sep	1017 995	SW 7760
Prep. PCBs 8082 Aqueous	COMPLETE		11/05/1998		wna	371	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/07/1998	0.0005	cls	371 703	SW 8082
PCB-1221	<0.0005	mg/L	11/07/1998	0.0005	cls	371 703	SW 8082
PCB-1232	<0.0005	mg/L	11/07/1998	0.0005	cls	371 703	SW 8082
PCB-1242	<0.0005	mg/L	11/07/1998	0.0005	cls	371 703	SW 8082
PCB-1248	<0.0005	mg/L	11/07/1998	0.0005	cls	371 703	SW 8082
PCB-1254	<0.0005	mg/L	11/07/1998	0.0005	cls	371 703	SW 8082
PCB-1260	<0.0005	mg/L	11/07/1998	0.0005	cls	371 703	SW 8082
Surr: Tetrachloroxylene (TCX)	89.0	%	11/07/1998	22-154	cls	371 703	SW 8082
Surr: Decachlorobiphenyl (DCB)	74.0	%	11/07/1998	23-154	cls	371 703	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 501006  
NET Job No. : 98.14170

Sample Description: MW-5  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 11:30  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 10:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>UST VOLATILES 8260 - AQUEOUS</b>							
Benzene	<0.001	mg/L	11/11/1998	0.001	p11	2650	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/11/1998	0.001	p11	2650	SW 8260A
Toluene	<0.001	mg/L	11/11/1998	0.001	p11	2650	SW 8260A
Xylenes, Total	<0.001	mg/L	11/11/1998	0.001	p11	2650	SW 8260A
Surr: Toluene-d8	100.0	†	11/11/1998	85-117	p11	2650	SW 8260A
Surr: Bromofluorobenzene	108.0	†	11/11/1998	80-116	p11	2650	SW 8260A
Surr: Dibromofluoromethane	96.0	†	11/11/1998	75-130	p11	2650	SW 8260A
Prep, 8310 PNAs AQUEOUS	extracted		11/05/1998		mmv	409	SW 3520C
<b>PNA COMPS - 8310 AQUEOUS</b>							
Acenaphthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Acenaphthylene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Anthracene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/07/1998	0.00013	keh	409 1207	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/07/1998	0.00018	keh	409 1207	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/07/1998	0.00017	keh	409 1207	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/07/1998	0.00023	keh	409 1207	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/07/1998	0.00076	keh	409 1207	SW 8310
Chrysene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/07/1998	0.00030	keh	409 1207	SW 8310
Fluoranthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Fluorene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/07/1998	0.00043	keh	409 1207	SW 8310
Naphthalene	0.0010	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Phenanthrene	<0.0010	mg/L	11/07/1998	0.0010	keh	409 1207	SW 8310
Pyrene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310





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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 501006

NET Job No.: 98.14170

Sample Description: MW-5  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 11:30  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 10:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-Terphenyl	93.8	†	11/07/1998	43-125	keh	409 1207	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 501007  
NET Job No. : 98.14170

Sample Description: MW-6  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 10:20  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 10:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	7.35	units	11/03/1998	0.10	efw	1724	EPA 150.1
Arsenic, GFAA	<0.0050	mg/L	11/05/1998	0.0050	out	1148	SW 7060
Barium, ICP	0.047	mg/L	11/06/1998	0.020	jtt	2205 3774	SW 6010B
Cadmium, ICP	<0.010	mg/L	11/06/1998	0.010	jtt	2205 3741	SW 6010B
Chromium, ICP	<0.040	mg/L	11/06/1998	0.040	jtt	2205 3752	SW 6010B
Lead, GFAA	<0.0050	mg/L	11/05/1998	0.0050	out	2174	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/09/1998	0.0002	sep	1189 1095	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/06/1998	0.0050	out	859	SW 7740
Silver, AA	<0.040	mg/L	11/06/1998	0.040	sep	1017 995	SW 7760
Prep. PCBs 8082 Aqueous	COMPLETE		11/05/1998		wna	371	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/06/1998	0.0005	cls	371 703	SW 8082
PCB-1221	<0.0005	mg/L	11/06/1998	0.0005	cls	371 703	SW 8082
PCB-1232	<0.0005	mg/L	11/06/1998	0.0005	cls	371 703	SW 8082
PCB-1242	<0.0005	mg/L	11/06/1998	0.0005	cls	371 703	SW 8082
PCB-1248	<0.0005	mg/L	11/06/1998	0.0005	cls	371 703	SW 8082
PCB-1254	<0.0005	mg/L	11/06/1998	0.0005	cls	371 703	SW 8082
PCB-1260	<0.0005	mg/L	11/06/1998	0.0005	cls	371 703	SW 8082
Surr: Tetrachloroxylene (TCX)	83.0	t	11/06/1998	22-154	cls	371 703	SW 8082
Surr: Decachlorobiphenyl (DCB)	74.0	t	11/06/1998	23-154	cls	371 703	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 501007  
NET Job No.: 98.14170

Sample Description: MW-6  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 10:20  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 10:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
<b>UST VOLATILES 8260 - AQUEOUS</b>							
Benzene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Toluene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Xylenes, Total	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Surr: Toluene-d8	90.0	†	11/11/1998	85-117	pll	2649	SW 8260A
Surr: Bromofluorobenzene	82.0	†	11/11/1998	80-116	pll	2649	SW 8260A
Surr: Dibromofluoromethane	102.0	†	11/11/1998	75-130	pll	2649	SW 8260A
Prep, 8310 PNAS AQUEOUS	extracted		11/05/1998		mmv	409	SW 3520C
<b>PNA CMPS - 8310 AQUEOUS</b>							
Acenaphthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Acenaphthylene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Anthracene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/07/1998	0.00013	keh	409 1207	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/07/1998	0.00018	keh	409 1207	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/07/1998	0.00017	keh	409 1207	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/07/1998	0.00023	keh	409 1207	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/07/1998	0.00076	keh	409 1207	SW 8310
Chrysene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/07/1998	0.00030	keh	409 1207	SW 8310
Fluoranthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Fluorene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/07/1998	0.00043	keh	409 1207	SW 8310
Naphthalene	0.00074	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Phenanthrene	<0.0010	mg/L	11/07/1998	0.0010	keh	409 1207	SW 8310
Pyrene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310



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**ANALYTICAL REPORT**

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Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 501007

NET Job No.: 98.14170

Sample Description: MW-6  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 10:20  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 10:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-Terphenyl	92.4	µ	11/07/1998	43-125	keh	409 1207	SW 8310



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## ANALYTICAL REPORT

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

Sample No. : 501008

NET Job No.: 98.14170

Sample Description: MW-7  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 11:00  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 10:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
pH	7.05	units	11/03/1998	0.10	efw	1724	EPA 150.1
Arsenic, GFAA	0.021	mg/L	11/05/1998	0.0050	out	1148	SW 7060
Barium, ICP	0.240	mg/L	11/06/1998	0.020	jtt	2205 3774	SW 6010B
Cadmium, ICP	<0.010	mg/L	11/06/1998	0.010	jtt	2205 3741	SW 6010B
Chromium, ICP	<0.040	mg/L	11/06/1998	0.040	jtt	2205 3752	SW 6010B
Lead, GFAA	<0.0050	mg/L	11/05/1998	0.0050	out	2174	SW 7421
Mercury, CVAA	<0.0002	mg/L	11/09/1998	0.0002	sep	1189 1095	SW 7470A
Selenium, GFAA	<0.0050	mg/L	11/06/1998	0.0050	out	859	SW 7740
Silver, AA	<0.040	mg/L	11/06/1998	0.040	sep	1017 995	SW 7760
Prep, PCBs 8082 Aqueous	COMPLETE		11/05/1998		wna	371	SW 3510C
PCBs 8082 Aqueous							
PCB-1016	<0.0005	mg/L	11/06/1998	0.0005	tlr	371 703	SW 8082
PCB-1221	<0.0005	mg/L	11/06/1998	0.0005	tlr	371 703	SW 8082
PCB-1232	<0.0005	mg/L	11/06/1998	0.0005	tlr	371 703	SW 8082
PCB-1242	<0.0005	mg/L	11/06/1998	0.0005	tlr	371 703	SW 8082
PCB-1248	<0.0005	mg/L	11/06/1998	0.0005	tlr	371 703	SW 8082
PCB-1254	<0.0005	mg/L	11/06/1998	0.0005	tlr	371 703	SW 8082
PCB-1260	<0.0005	mg/L	11/06/1998	0.0005	tlr	371 703	SW 8082
Surr: Tetrachloroxylene (TCX)	75.0	%	11/06/1998	22-154	tlr	371 703	SW 8082
Surr: Decachlorobiphenyl (DCB)	66.0	%	11/06/1998	23-154	tlr	371 703	SW 8082



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 501008  
NET Job No.: 98.14170

Sample Description: MW-7  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 11:00  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 10:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
UST VOLATILES 8260 - AQUEOUS							
Benzene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Ethyl Benzene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Toluene	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Xylenes, Total	<0.001	mg/L	11/11/1998	0.001	pll	2649	SW 8260A
Surr: Toluene-d8	98.0	†	11/11/1998	85-117	pll	2649	SW 8260A
Surr: Bromofluorobenzene	92.0	†	11/11/1998	80-116	pll	2649	SW 8260A
Surr: Dibromofluoromethane	108.0	†	11/11/1998	75-130	pll	2649	SW 8260A
Prep, 8310 PNAs AQUEOUS	extracted		11/05/1998		mmv	409	SW 3520C
PNA CMPDS - 8310 AQUEOUS							
Acenaphthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Acenaphthylene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Anthracene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Benzo(a)anthracene	<0.00013	mg/L	11/07/1998	0.00013	keh	409 1207	SW 8310
Benzo(b)fluoranthene	<0.00018	mg/L	11/07/1998	0.00018	keh	409 1207	SW 8310
Benzo(k)fluoranthene	<0.00017	mg/L	11/07/1998	0.00017	keh	409 1207	SW 8310
Benzo(a)pyrene	<0.00023	mg/L	11/07/1998	0.00023	keh	409 1207	SW 8310
Benzo(ghi)perylene	<0.00076	mg/L	11/07/1998	0.00076	keh	409 1207	SW 8310
Chrysene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Dibenzo(a,h)anthracene	<0.00030	mg/L	11/07/1998	0.00030	keh	409 1207	SW 8310
Fluoranthene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Fluorene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Indeno(1,2,3-cd)pyrene	<0.00043	mg/L	11/07/1998	0.00043	keh	409 1207	SW 8310
Naphthalene	0.00065	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310
Phenanthrene	<0.0010	mg/L	11/07/1998	0.0010	keh	409 1207	SW 8310
Pyrene	<0.0005	mg/L	11/07/1998	0.0005	keh	409 1207	SW 8310



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**ANALYTICAL REPORT**

Mr. Wei-Lin Feng  
ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998  
Sample No. : 501008  
NET Job No.: 98.14170

Sample Description: MW-7  
ComEd-Powerton; 1801-023

Date Taken: 11/02/1998  
Time Taken: 11:00  
IEPA Cert. No. 100221

Date Received: 11/03/1998  
Time Received: 10:30  
WDNR Cert. No. 999447130

Parameter	Results	Units	Date of Analysis	Method PQL	Analyst	Batch No. Prep/Run	Analytical Method
Surr: p-Terphenyl	97.2	μ	11/07/1998	43-125	keh	409 1207	SW 8310



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14170

Mr. Wei-Lin Feng

Analyte	Run	CCV		Percent Recovery
	Batch Number	True Conc.	Conc. Found	
pH	1724	7.02	7.02	100.0
Arsenic, GFAA	1148	0.0500	0.0508	101.6
Arsenic, GFAA	1148	0.0500	0.0536	107.2
Barium, ICP	3774	2.00	2.09	104.5
Cadmium, ICP	3741	1.00	1.02	102.0
Chromium, ICP	3752	2.00	2.09	104.5
Lead, GFAA	2174	0.0250	0.0256	102.4
Lead, GFAA	2174	0.0250	0.0261	104.4
Mercury, CVAA	1095	0.0025	0.00237	94.8
Selenium, GFAA	859	0.0500	0.0513	102.6
Selenium, GFAA	859	0.0500	0.0530	106.0
Silver, AA	995	0.500	0.504	100.8
PCBs 8082 Aqueous				
PCB-1016	703	500.	485	97.0
PCB-1260	703	500	500	100.0
PCBs 8082 Aqueous				
PCB-1016	703	500.	479	95.8
PCB-1260	703	500	499	99.8
PCBs 8082 Aqueous				
PCB-1016	703	500.	494	98.8
PCB-1260	703	500	436	87.2
PCBs 8082 Aqueous				
PCB-1016	703	500.	505	101.0
PCB-1260	703	500	531	106.2
PCBs 8082 Aqueous				
PCB-1016	703	500.	505	101.0
PCB-1260	703	500	505	101.0
UST VOLATILES 8260 - AQUEOUS				
Benzene	2649	50.0	47.0	94.0
Ethyl Benzene	2649	50.0	45.0	90.0
Toluene	2649	50.0	44.0	88.0
Xylenes, Total	2649	150	136	90.7
UST VOLATILES 8260 - AQUEOUS				
Benzene	2650	50.0	51.0	102.0

CCV - Continuing Calibration Verification





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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14170

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Ethyl Benzene	2650	50.0	49.0	98.0
Toluene	2650	50.0	50.0	100.0
Xylenes, Total	2650	150	154	102.7
PNA CMPS - 8310 AQUEOUS				
Acenaphthene	1207	5000	4,792	95.8
Acenaphthylene	1207	5000	5,040	100.8
Anthracene	1207	5000	5,183	103.7
Benzo (a) anthracene	1207	5000	5,118	102.4
Benzo (b) fluoranthene	1207	5000	4,872	97.4
Benzo (k) fluoranthene	1207	5000	4,870	97.4
Benzo (a) pyrene	1207	5000	4,920	98.4
Benzo (ghi) perylene	1207	5000	5,057	101.1
Chrysene	1207	5000	5,092	101.8
Dibenzo (a, h) anthracene	1207	5000	4,995	99.9
Fluoranthene	1207	5000	5,169	103.4
Fluorene	1207	5000	5,000	100.0
Indeno (1, 2, 3-cd) pyrene	1207	5000	5,131	102.6
Naphthalene	1207	5000	4,753	95.1
Phenanthrene	1207	5000	5,074	101.5
Pyrene	1207	5000	5,056	101.1
Surr: p-Terphenyl	1207	5000	4,919	98.4
PNA CMPS - 8310 AQUEOUS				
Acenaphthene	1207	5000	4,808	96.2
Acenaphthylene	1207	5000	5,094	101.9
Anthracene	1207	5000	5,110	102.4
Benzo (a) anthracene	1207	5000	5,155	103.1
Benzo (b) fluoranthene	1207	5000	4,881	97.6
Benzo (k) fluoranthene	1207	5000	5,079	101.6
Benzo (a) pyrene	1207	5000	4,873	97.5
Benzo (ghi) perylene	1207	5000	5,112	102.2
Chrysene	1207	5000	5,105	102.1
Dibenzo (a, h) anthracene	1207	5000	4,988	99.8
Fluoranthene	1207	5000	5,046	100.9
Fluorene	1207	5000	4,960	99.2

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### CONTINUING CALIBRATION VERIFICATION

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14170

Mr. Wei-Lin Feng

Analyte	Run	CCV	Conc. Found	Percent Recovery
	Batch Number	True Conc.		
Indeno (1,2,3-cd)pyrene	1207	5000	5,068	101.4
Naphthalene	1207	5000	4,798	96.0
Phenanthrene	1207	5000	5,130	102.6
Pyrene	1207	5000	4,954	99.1
Surr: p-Terphenyl	1207	5000	4,949	99.0
PNA CMPDS - 8310 AQUEOUS				
Acenaphthene	1207	5000	4,856	97.1
Acenaphthylene	1207	5000	4,994	99.9
Anthracene	1207	5000	5,106	102.1
Benzo (a) anthracene	1207	5000	5,117	102.3
Benzo (b) fluoranthene	1207	5000	4,842	96.8
Benzo (k) fluoranthene	1207	5000	4,932	98.6
Benzo (a) pyrene	1207	5000	4,832	96.6
Benzo (ghi) perylene	1207	5000	5,104	102.1
Chrysene	1207	5000	5,096	101.9
Dibenzo (a, h) anthracene	1207	5000	4,966	99.3
Fluoranthene	1207	5000	5,044	100.9
Fluorene	1207	5000	4,953	99.1
Indeno (1,2,3-cd)pyrene	1207	5000	4,980	99.6
Naphthalene	1207	5000	4,701	94.0
Phenanthrene	1207	5000	5,055	101.1
Pyrene	1207	5000	4,914	98.3
Surr: p-Terphenyl	1207	5000	5,009	100.2

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14170

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Arsenic, GFAA		1148	<0.0050	mg/L	0.0050	SW 7060
Arsenic, GFAA		1148	<0.0050	mg/L	0.0050	SW 7060
Barium, ICP	2205	3774	<0.020	mg/L	0.020	SW 6010B
Cadmium, ICP	2205	3741	<0.010	mg/L	0.010	SW 6010B
Chromium, ICP	2205	3752	<0.040	mg/L	0.040	SW 6010B
Lead, GFAA		2174	<0.0050	mg/L	0.0050	SW 7421
Lead, GFAA		2174	<0.0050	mg/L	0.0050	SW 7421
Mercury, CVAA	1189	1095	<0.0002	mg/L	0.0002	SW 7470A
Mercury, CVAA	1189	1095	<0.0002	mg/L	0.0002	SW 7470A
Selenium, GFAA		859	<0.005	mg/L	0.005	SW 7740
Selenium, GFAA		859	<0.005	mg/L	0.005	SW 7740
Silver, AA	1017	995	<0.040	mg/L	0.040	SW 7760
PCBs 8082 Aqueous						SW 8082
PCB-1016	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1221	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1232	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1242	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1248	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1254	371	703	<0.0005	mg/L	0.5	SW 8082
PCB-1260	371	703	<0.0005	mg/L	0.5	SW 8082
Surr: Tetrachloroxylene (TCX)	371	703	50.0	†	22-154	SW 8082
Surr: Decachlorobiphenyl (DCB)	371	703	53.0	†	22-154	SW 8082
UST VOLATILES 8260 - AQUEOUS						SW 8260A
Benzene		2649	<1.0	ug/L	1.0	SW 8260A
Ethyl Benzene		2649	<1.0	ug/L	1.0	SW 8260A
Toluene		2649	<1.0	ug/L	1.0	SW 8260A
Xylenes, Total		2649	<1.0	ug/L	1.0	SW 8260A
Surr: Dibromofluoromethane		2649	98.0	†	75-130	SW 8260A
Surr: Toluene-d8		2649	100.0	†	85-117	SW 8260A

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14170

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Surr: Bromofluorobenzene		2649	94.0	†	80-116	SW 8260A
UST VOLATILES 8260 - AQUEOUS						SW 8260A
Benzene		2650	<1.0	ug/L	1.0	SW 8260A
Ethyl Benzene		2650	<1.0	ug/L	1.0	SW 8260A
Toluene		2650	<1.0	ug/L	1.0	SW 8260A
Xylenes, Total		2650	<1.0	ug/L	1.0	SW 8260A
Surr: Dibromofluoromethane		2650	98.0	†	75-130	SW 8260A
Surr: Toluene-d8		2650	106.0	†	85-117	SW 8260A
Surr: Bromofluorobenzene		2650	98.0	†	80-116	SW 8260A
PNA CMPDS - 8310 AQUEOUS						SW 8310
Acenaphthene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Acenaphthylene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Anthracene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Benzo(a)anthracene	409	1206	<0.00013	mg/L	0.00013	SW 8310
Benzo(b)fluoranthene	409	1206	<0.00018	mg/L	0.00018	SW 8310
Benzo(k)fluoranthene	409	1206	<0.00017	mg/L	0.00017	SW 8310
Benzo(a)pyrene	409	1206	<0.00023	mg/L	0.00023	SW 8310
Benzo(ghi)perylene	409	1206	<0.00076	mg/L	0.00076	SW 8310
Chrysene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Dibenzo(a,h)anthracene	409	1206	<0.00030	mg/L	0.00030	SW 8310
Fluoranthene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Fluorene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Indeno(1,2,3-cd)pyrene	409	1206	<0.00043	mg/L	0.00043	SW 8310
Naphthalene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Phenanthrene	409	1206	<0.0010	mg/L	0.0010	SW 8310
Pyrene	409	1206	<0.0005	mg/L	0.0005	SW 8310
Surr: p-Terphenyl	409	1206	92.3	†	43-125	SW 8310
PNA CMPDS - 8310 AQUEOUS						SW 8310
Acenaphthene	409	1207	<0.0005	mg/L	0.0005	SW 8310

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



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## QUALITY CONTROL REPORT

### BLANK ANALYSIS

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14170

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Units	Reporting Limit	Analytical Method
Acenaphchylene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Anthracene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Benzo(a)anthracene	409	1207	<0.00013	mg/L	0.00013	SW 8310
Benzo(b)fluoranthene	409	1207	<0.00018	mg/L	0.00018	SW 8310
Benzo(k)fluoranthene	409	1207	<0.00017	mg/L	0.00017	SW 8310
Benzo(a)pyrene	409	1207	<0.00023	mg/L	0.00023	SW 8310
Benzo(ghi)perylene	409	1207	<0.00076	mg/L	0.00076	SW 8310
Chrysene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Dibenzo(a,h)anthracene	409	1207	<0.00030	mg/L	0.00030	SW 8310
Fluoranthene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Fluorene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Indeno(1,2,3-cd)pyrene	409	1207	<0.00043	mg/L	0.00043	SW 8310
Naphthalene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Phenanthrene	409	1207	<0.0010	mg/L	0.0010	SW 8310
Pyrene	409	1207	<0.0005	mg/L	0.0005	SW 8310
Surr: p-Terphenyl	409	1207	90.0	µ	43-125	SW 8310

#### Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



**NATIONAL  
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**QUALITY CONTROL REPORT**

**LABORATORY CONTROL STANDARD**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14170

Mr. Wei-Lin Feng

Analyte	Prep		Run		True Conc.	Conc. Found	LCS % Recovery
	Batch Number	Batch Number	Batch Number	Batch Number			
Arsenic, GFAA		1148			0.0500	0.0544	108.8
Barium, ICP	2205	3774			0.200	0.198	99.0
Cadmium, ICP	2205	3741			0.100	0.094	94.0
Chromium, ICP	2205	3752			0.20	0.198	99.0
Lead, GFAA		2174			0.0200	0.0214	107.0
Mercury, CVAA	1189	1095			0.0025	0.00260	104.0
Mercury, CVAA	1189	1095			0.0025	0.00260	104.0
Mercury, CVAA		1095			0.0020	0.00214	107.0
Selenium, GFAA		859			0.0500	0.0586	117.2
Silver, AA	1017	995			0.10	0.095	95.0
PCBs 8082 Aqueous							
PCB-1016	371	703			500	449	89.8
PCB-1260	371	703			500	427	85.4
Surr: Tetrachloroxylene (TCX)	371	703			100	45	45.0
Surr: Decachlorobiphenyl (DCB)	371	703			100	64	64.0
UST VOLATILES 8260 - AQUEOUS							
Benzene		2649			20.0	20.0	100.0
Ethyl Benzene		2649			20.0	18.0	90.0
Toluene		2649			20.0	18.0	90.0
Xylenes, Total		2649			60.0	55.0	91.7
Surr: Dibromofluoromethane		2649			50.0	53.0	106.0
Surr: Toluene-d8		2649			50.0	50.0	100.0
Surr: Bromofluorobenzene		2649			50.0	47.0	94.0
UST VOLATILES 8260 - AQUEOUS							
Benzene		2650			20.0	21.0	105.0
Ethyl Benzene		2650			20.0	20.0	100.0
Toluene		2650			20.0	21.0	105.0
Xylenes, Total		2650			60.0	64.0	106.7
Surr: Dibromofluoromethane		2650			50.0	50.0	100.0
Surr: Toluene-d8		2650			50.0	54.0	108.0
Surr: Bromofluorobenzene		2650			50.0	50.0	100.0



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## QUALITY CONTROL REPORT

### LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14170

Mr. Wei-Lin Feng

Analyte	Prep	Run	True Conc.	Conc. Found	LCS % Recovery
	Batch Number	Batch Number			
PNA CMPDS - 8310 AQUEOUS					
Acenaphthene	409	1206	0.001	0.000870	87.0
Acenaphthylene	409	1206	0.001	0.000962	96.2
Anthracene	409	1206	0.001	0.000945	94.5
Benzo (a) anthracene	409	1206	0.001	0.000946	94.6
Benzo (b) fluoranthene	409	1206	0.001	0.000867	86.7
Benzo (k) fluoranthene	409	1206	0.001	0.000909	90.9
Benzo (a) pyrene	409	1206	0.001	0.000865	86.5
Benzo (ghi) perylene	409	1206	0.001	0.000985	98.5
Chrysene	409	1206	0.001	0.000955	95.5
Dibenzo (a, h) anthracene	409	1206	0.001	0.000936	93.6
Fluoranthene	409	1206	0.001	0.000970	97.0
Fluorene	409	1206	0.001	0.000938	93.8
Indeno (1, 2, 3-cd) pyrene	409	1206	0.001	0.000858	85.8
Naphthalene	409	1206	0.001	0.000955	95.5
Phenanthrene	409	1206	0.001	0.000854	85.4
Pyrene	409	1206	0.001	0.000958	95.8
Surr: p-Terphenyl	409	1206	2000	1,797	89.8
PNA CMPDS - 8310 AQUEOUS					
Acenaphthene	409	1207	0.001	0.000926	92.6
Acenaphthylene	409	1207	0.001	0.000976	97.6
Anthracene	409	1207	0.001	0.001102	102.0
Benzo (a) anthracene	409	1207	0.001	0.001103	103.0
Benzo (b) fluoranthene	409	1207	0.001	0.000964	96.4
Benzo (k) fluoranthene	409	1207	0.001	0.000964	96.4
Benzo (a) pyrene	409	1207	0.001	0.000903	90.3
Benzo (ghi) perylene	409	1207	0.001	0.000991	99.1
Chrysene	409	1207	0.001	0.001101	101.0
Dibenzo (a, h) anthracene	409	1207	0.001	0.000972	97.2
Fluoranthene	409	1207	0.001	0.000998	99.8
Fluorene	409	1207	0.001	0.000980	98.0



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QUALITY CONTROL REPORT

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LABORATORY CONTROL STANDARD

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14170

Mr. Wei-Lin Feng

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS & Recovery
Indeno (1,2,3-cd) pyrene	409	1207	0.001	0.00104	104.0
Naphthalene	409	1207	0.001	0.000902	90.2
Phenanthrene	409	1207	0.001	0.0010	100.0
Pyrene	409	1207	0.001	0.000973	97.3
Surr: p-Terphenyl	409	1207	2000	1,922	96.1





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**QUALITY CONTROL REPORT**

**DUPLICATES**

ENSR  
740 Pasquinelli Drive  
Westmont, IL 60559

11/11/1998

NET Job Number: 98.14170

Mr. Wei-Lin Feng

Analyte	Prep	Run	Original	Duplicate	Units	RPD
	Batch	Batch				
	Number	Number				
pH		1724	7.68	7.75	units	0.9
pH		1724	8.11	8.10	units	0.1

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

Advisory Control Limits for Duplicates - RPD should be less than 20.

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	: Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	: Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	: Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	: Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	: Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
TCLP	: These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
Surr:	: These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
%	: Percent; To convert ppm to %, divide the result by 10,000. To convert % to ppm, multiply the result by 10,000.
ICP	: Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	: Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	: Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	: Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

- (1) Methods 1000 through 9999; see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
- (2) ASTM "American Society for Testing Materials"
- (3) Methods 100 through 499; see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
- (4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
- (5) Methods 600 through 625; see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- (6) Methods 500 through 599; see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

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**APPENDIX C**

**Monitoring Well Gauging and Survey Data**

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**Phase II Environmental Site Assessment  
Commonwealth Edison Company  
December 7, 1998**

**Powerton Generating Station  
Route 29 & Mantino Road  
Pekin, Illinois**



COMPANY: ENSTAR  
 ADDRESS: 540 Pasanelli Westmont  
 PHONE: 630 887-1708 FAX: 630 850 5307  
 PROJECT NAME/LOCATION: Fordston/Can Eng  
 PROJECT NUMBER: 1801-023  
 PROJECT MANAGER: Wei-Lin Feng

REPORT TO: Wei-Lin Feng  
 INVOICE TO: \_\_\_\_\_  
 P.O. NO. \_\_\_\_\_  
 NET QUOTE NO. \_\_\_\_\_

SAMPLED BY: Tom Reynolds  
 SIGNATURE: [Signature]  
 PRINT NAME: Tom Reynolds

Matrix and Type of Containers

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	HCl	NaOH	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	OTHER	ANALYSES
1/2	11:30	MW15	W								PNA PH PCB PCRAMetal
	10:30	MW16									
	11:00	MW17									

To assist us in selecting the proper method  
 Is the work being conducted for regulatory compliance monitoring? Yes \_\_\_ No \_\_\_  
 Is the work being conducted for regulatory enforcement action? Yes \_\_\_ No \_\_\_  
 Which regulations apply: RCRA \_\_\_ NPDES Wastewater \_\_\_  
 UST \_\_\_ Drinking Water \_\_\_  
 Other \_\_\_ None \_\_\_

COMMENTS

Rec'd (5) 40ml vials = BCTX

CONDITION OF SAMPLE: BOTTLES INTACT?  YES  NO  
 FIELD FILTERED?  YES  NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA \_\_\_\_\_  
 I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS \_\_\_\_\_

REINQUISHED BY: [Signature] DATE: 1/2/98 TIME: 1500  
 METHOD OF SHIPMENT: FoDEX

REMARKS: \_\_\_\_\_

TEMPERATURE UPON RECEIPT: 1.3°C  W/ICE  
 Bottles supplied by NET?  YES  NO

RECEIVED FOR NET BY: P. McNeill DATE: 1/6/98 TIME: 16:30



Project: ComEd Powerton Generating Station  
 Project #: 1801-023-510  
 Date: 11/2/98

Operator: BM  
 Method: IP  
 Equipment #: IP #

Well ID	FOC Elevation (feet)	Total Depth of Well (feet)	Depth to Water (feet)	Depth to LPHC (feet)	LPHC Thickness (feet)	LPHC Specific Gravity	Corrective Depth to Water (feet)	Corrective Water Elevation (feet)
MW-1	95.49	25.20	20.26	NA	NA	NA	20.26	75.23
MW-2	77.29	14.90	8.11	NA	NA	NA	8.11	69.18
MW-3	92.16	32.05	25.91	NA	NA	NA	25.91	66.25
MW-5	81.43	16.54	10.45	NA	NA	NA	10.45	70.98
MW-6	99.58	28.65	22.01	NA	NA	NA	22.01	77.57
MW-7	90.46	15.81	10.65	NA	NA	NA	10.65	79.81

Note:  
 TOC elevation is based on an arbitrary 100 foot benchmark.