CLOSURE OF DRYWELL 3
WORK PLAN
BARTLETT TREE COMPANY SITE
WESTBURY, NEW YORK
NYSDEC SITE REGISTRY NO. 130074

Prepared for

F.A. Bartlett Tree Expert Company, Charlotte, North Carolina February 2009

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February 2009

Project Number: 135711.301



Associates
234 Hudson Avenue
Albany, New York 12210

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Figure 1 Site Layout

1. INTRODUCTION

Brown and Caldwell Associates (BC) has prepared this work plan to present the methodologies to close and investigate Drywell 3, a floor drain, and a former mechanic's pit at the Bartlett Tree Company Site (the Site). Drywell 3 is believed to be currently serving as a cesspool which receives sanitary wastes from the adjacent Office Building. The drywell may also have connections to a floor drain located in the exterior stairwell on the north side of the Office Building, and/or to a potential drain located in a suspected former mechanic's pit located in the ground floor of the Office Building. The purpose of the closure of Drywell 3 is to terminate its use as a cesspool for the receipt of sanitary sewage, to remove accumulated liquids and solids from the drywell, and to investigate and terminate any connections to the stairwell floor drain or a drain in the mechanic's pit. The termination of this usage will be performed after the connection of the Office Building sanitary sewage system into the municipal system servicing the Village of Westbury. Based on the proximity of the drywell to the Office Building, removal of the drywell system could adversely impact the foundation of the Office Building. As such, Bartlett will close the drywell/cesspool in place by removing and properly disposing of its contents and backfilling the structure with certified clean fill. The investigation activities (in addition to the typical closure activities) are deemed necessary due to the discovery of petroleum products and pesticides/herbicides in the materials contained within the drywell/cesspool.

This work plan reflects the approach for the closure of the drywell originally described in BC's letter work plan (December 22, 2008) to Mr. Jamie Ascher of the New York State Department of Environmental Conservation (DEC). The approach has been modified and expanded to address comments received from the DEC and the Nassau County Department of Health (NCDH) based on their review of the December 22, 2008 plan and an inspection of the facility conducted by the NCDH on December 20, 2008. The NCDH inspection was conducted as a result of the facility's plans to connect the Office Building to the municipal sanitary sewer system.

1.1 Background

A remedial investigation is being conducted in accordance with the DEC-approved "Remedial Investigation/Feasibility Study Work Plan" prepared by BC and dated March 2008. As part of the RI, BC obtained architectural plans and building permits from the Westbury Building Department which identified the potential presence of a drywell (i.e., Drywell 3) located on the northern side of the Office Building (Figure 1). The, architectural plans (Knebel, 1964) show a floor drain at the base of a proposed exterior stairway on the north side of the Office Building. The floor drain is shown connecting to a pre-cast dry well (four feet in diameter by three feet deep), located a few feet to the north and west of the stairway (in the approximate location of Drywell 3). Further, a building permit application (Village of Westbury, December 19, 1966) indicates the Office Building restrooms were to be connected to an eight foot diameter cesspool near the north side of the building. At the time of the acquisition of the documents, it had not been determined whether the discharge point of the Office Building restrooms was the municipal sanitary sewer or the drywell/cesspool, or whether the floor drain at the base of the exterior stairwell was connected to the drywell.

As part of the remedial investigation activities, BC personnel removed a cast-iron manhole cover located to the north and west of the stairway of the Office Building. Visual inspection of the interior of the manhole indicated that the manhole structure is approximately four feet in depth and accesses a below grade structure filled with liquids/suspended solids associated with sanitary sewage. A light non-aqueous phase liquid (LNAPL) with a petroleum-like odor was noted on the surface of the liquids/suspended solids. The origin of the LNAPL is unknown. The level of the wastes within the structure were noted to fluctuate, indicating that



the structure is a cesspool and not a contained tank, and that liquid portions of the sanitary wastes were percolating into the subsurface.

BC collected a sample of the LNAPL for laboratory analysis. BC also utilized a GeoProbe®-type direct-push rig to obtain a sample of the solid material at the base of the drywell. Information obtained during the drilling effort indicated the presence of liquids with suspended solids associated with sanitary sewage to a depth of approximately 14-15 feet below ground surface (bgs). At this depth, denser sediments were encountered. A sample of the denser sediment was collected in the 14-15 foot interval; however, the depth of the base of the structure, if any, or the interface between the sanitary sewage sediments and the native soil materials was not determined.

In response to Bartlett's proposal to connect the Office Building's sanitary sewage system to the municipal sanitary sewer system, the NCDH inspected the ground floor of the Office Building on December 30, 2008. The NCDH representative observed a pit in the concrete floor of the building. The pit was filled with coarse aggregate and covered with wooden planks. The former use of the pit is unknown but it is suspected to be a former mechanic's pit that was used for servicing Bartlett's trucks. No records regarding the pit's construction or filling have been identified. It is not known whether this pit could have a drain that connects to Drywell 3.

1.2 Waste Characterization

BC submitted the above-noted sediment and LNAPL samples to Lancaster Laboratories of Lancaster, Pennsylvania. Lancaster Laboratories is certified (Certification Number 10670) under the New York State Department of Health (NYSDOH), Environmental Laboratory Accreditation Program (ELAP). The samples were analyzed for the following parameters:

- TCL VOCs by USEPA SW 846 Method 8260;
- TCL SVOCs by USEPA SW 846 Method 8270C;
- TCL Pesticides by USEPA SW 846 Method 8081A;
- Organophosphorous Pesticides by USEPA SW 846 Method 8141A;
- Chlorinated Herbicides by USEPA SW 846 Method 8151A;
- TAL Metals USEPA SW 846 Method 6010B/7471A; and
- PCBs by USEPA SW-846 Method 8082.

In addition, the LNAPL sample was submitted for qualitative gas chromatographic (GC) fingerprinting to assess its similarity to known petroleum product types.

The unvalidated laboratory reports (Form 1's) for the sediment and LNAPL samples are attached (Appendix A). The data indicated the presence of a number of organic compounds in the LNAPL and/or sediment samples, including VOCs (e.g., toluene, ethyl benzene, xylenes, etc.), SVOCs (e.g., naphthalene, fluorene, anthracene), pesticides (DDT, DDE, DDD, chlordane, BHC), and herbicides (e.g. MCPP or Mecoprop; 2,4,5-T; 2,4-DB). The fingerprint analysis of the LNAPL sample indicated it most closely resembled diesel/No. 2 fuel oil.

A Data Usability Summary Report (DUSR) for these analyses is currently being prepared. The final results will be included in the subsequent Remedial Investigation Report.



2. CLOSURE ACTIVITIES

2.1 Permits and Notification

The Remedial Contractor will obtain all necessary permits, provide notifications and schedule inspections, as necessary, with the Village of Westbury Building Department as well as the NCDH regarding the closure of the drywell/cesspool system. These agencies have been notified that the closure of the drywell/cesspool, while being performed in conjunction with the connection to the municipal sewer system, is being performed under the overall investigation/remediation program being conducted under the auspices of the DEC. Any resulting soil/groundwater impacts from the drywell/cesspool system will be addressed under the DEC-authorized remedial program.

BC discussed the closure of Drywell 3 with a representative of the NCDH to inform the department of the impacts to the contents of the drywell. The NCDH agreed that any resulting soil/groundwater impacts from the drywell/cesspool system will be addressed under the DEC-authorized remedial program, and stated that the NCDH must be notified a minimum of five (5) days prior to work so a representative can be present to observe the work.

2.2 Additional Waste Characterization

If necessary, additional waste characterization sampling may be conducted prior to the closure activities in order to supplement the waste characterization data previously obtained (Section 1.2) and to fulfill the requirements of permitted disposal facilities being considered for off-site waste disposal. The Remedial Contractor is in the process of assessing whether permitted off-site disposal facilities can utilize the existing waste characterization data or whether additional in-situ waste characterization will be required for the procurement of disposal facility approvals before removal. Pre-approval will allow direct load-out of wastes, minimizing stockpiling and on-site handling, and avoiding delays associated with facility approvals.

Additional waste characterization sampling (if any) will be performed using manual collection and, if necessary, direct-push (GeoProbe®) coring devices to ensure collection of representative samples of the liquids and sediments/soils to be removed. The analyses required for additional waste characterization will be determined by the permit requirements of the prospective disposal facility(ies), but may include VOCs, RCRA characteristics (toxicity, ignitability, corrosivity and reactivity), RCRA metals, and total petroleum hydrocarbons (TPHC). Initial testing of the sediment and LNAPL samples (Section 1.2) indicate that the materials do not contain PCBs. The results of the additional waste characterization sampling and analysis will be provided to the DEC and the NCDH, and the agencies will be notified of the designated disposal facility(ies).

The origins of the organic constituents detected in the contents of Drywell 3 are unknown, and the waste materials that will be removed in conjunction with the closure of the drywell are not considered to be Listed Hazardous Wastes. Therefore, characterization of the waste materials as Hazardous or Non-Hazardous will be based solely on the results of testing for RCRA characteristics (toxicity, ignitability, corrosivity and reactivity).

2.3 Inspection of Former Mechanic's Pit

The pit located on the ground floor of the Office Building will be inspected to determine if it has a solid bottom (with or without a drain) or if it has an earthen bottom. This inspection will be conducted prior to backfilling Drywell 3 so that if a drain is identified in the base of the pit, it can be tested to see if it is connected to Drywell 3.

Inspection of the pit will be performed, in general, as follows. The boards covering the pit will be removed. The fill materials (apparently gravel) will be removed from the pit by means of a vacuum (vac) truck, small excavator, or by hand shovel. The fill will be temporarily staged on and covered with polyethylene sheeting pending either disposal of the material at a permitted facility or reuse as fill in the pit. Assuming that the grain-size distribution of the fill is suitable for laboratory analysis (i.e., not too coarse), a representative sample of the fill will be collected and analyzed for the parameters specified in Section 1.2 of this work plan.

The pit will not be entered unless it is apparent that it was constructed as a mechanic's pit and thus intended for occupancy, and is deemed by the project engineer to be structurally sound. Prior to entering the pit, the atmosphere in the pit will be monitored for VOCs, lower explosive limit (LEL), oxygen, carbon monoxide and hydrogen sulfide to verify that conditions are within acceptable limits in accordance with the site-specific Health and Safety Plan (HASP). If the pit is found to be unsuitable for entry, its contents will be inspected and sampled as practicable from the surface.

The structural condition of the pit will be noted, including the presence of cracks and the condition of mortar repairs (if any). The contents of the pit will be sampled as follows and analyzed for the parameters specified in Section 1.2 of this work plan. All sampling and laboratory analysis will be performed in accordance with the requirements and quality assurance methods in the July 2007 RI/FS Work Plan.

- 1. If the base of the pit is earthen, a representative sample of the soil will be collected from the base of the pit at a depth of approximately six (6) inches below the base of the pit. The sample will be collected with a pre-cleaned trowel (if the pit is has been deemed safe to enter) or from the surface by means of a pre-cleaned hand auger, shovel, dredge, GeoProbe® or similar device.
- 2. If the base of the pit is concrete, a sample of accumulated sediment or soil (if any) will be collected, as practicable, from the surface of the concrete using a pre-cleaned trowel, shovel, dredge or similar device. If the concrete base of the pit is cracked, or otherwise appears to be porous, and if the depth of the pit permits, a soil sample will be collected from the 0-12" interval below the base of the concrete by means of a GeoProbe®, or by removing some of the concrete and using a trowel or handauger.
- 3. If a drain is present in the pit, a sample of accumulated sediment (if any) will be collected from the interior of the drain. The sample will be collected with a pre-cleaned trowel (if the pit is has been deemed safe to enter) or from the surface (if practicable) by means of a pre-cleaned hand auger, shovel, or similar device.

If a drain is present, water (dyed or undyed) will be introduced into the drain (after sample collection) while the interior of Drywell 3 is observed for evidence of drainage. If no drainage is observed in Drywell 3, BC will attempt to observe flow from the drain in a sanitary sewer cleanout (if accessible). If the mechanic's pit is found to discharge to a leaching structure other than Drywell 3, a bottom sample will be collected (as feasible) from that leaching structure.

Following inspection and sampling of the pit, it will be temporarily covered with a road plate pending receipt and evaluation of analytical results for the above noted samples. The analytical results will be provided to the DEC along with recommendations for further action (e.g., sealing any drain, backfilling the pit).



2.4 Inspection of Stairway Floor Drain

As noted in Section 1.0 of this letter work plan, a floor drain is located at the base of the exterior stairway located on the north side of the Office Building (adjacent to Drywell 3). As previously noted, historical architectural plans indicate this floor drain was to connect to a pre-cast dry well located a few feet to the north and west of the stairway. This pre-cast dry well may actually be Drywell 3.

At the request of the NCDH, a sample of sediment from inside the stairway floor drain will be obtained (as feasible) and submitted for laboratory analysis for the parameters listed in Section 1.2. The sample will be collected (after removing the steel grate over the floor drain) with a dedicated or pre-cleaned spoon, trowel or similar device. All sampling and laboratory analysis will be performed in accordance with the requirements and quality assurance methods in the July 2007 RI/FS Work Plan.

After the contents of Drywell 3 are removed, but before the drywell is backfilled, water (dyed or undyed) will be introduced into the stairway floor drain while the interior of Drywell 3 is observed for evidence of drainage. If no drainage is observed in Drywell 3, BC will attempt to observe flow from the drain in a sanitary sewer cleanout (if accessible). If the stairway floor drain is found to discharge to a leaching structure other than Drywell 3, a bottom sample will be collected (as feasible) from that leaching structure.

It is not permissible for a stormwater discharge to be connected into the municipal sanitary sewer system. The termination of any connection to Drywell 3 or to the sanitary sewer system will be evaluated during the closure activities. Continued use of Drywell 3 is contingent on satisfactory endpoint sample results (Section 2.6) and authorization by the DEC. If discharge of the stairway floor drain to Drywell 3 is deemed inappropriate, alternatives for redirecting the discharge will be evaluated.

2.5 Removal of Drywell 3 Contents

After the contents of Drywell 3 have been properly characterized, profiled and acceptance has been acquired from the waste disposal facility(ies), equipment will be mobilized to conduct the closure activities and the removal of the liquids/sediments/soils from Drywell 3. As no information regarding the as-built condition of Drywell 3 has been obtained and the actual construction of the system is unknown, the methods to remove the materials from the drywell will be largely dependent on visual observations made in the field during the closure activities.

The contents of the drywell will be removed to the extent practicable using a vacuum (vac) truck. Initially, the asphalt paving around the manhole and over the drywell will be sawcut and removed along with the subsurface materials to expose the cover of the drywell structure. The access manhole will be removed and either a larger opening cut in the cover of the drywell structure or the entire cover removed to facilitate removal of the materials, inspection of the drywell interior, and other closure activities. The extent of the removal of the cover will be largely dependent on the logistics of the structure's proximity to the adjacent Office Building as well as to the adjacent active driveway. This driveway is located immediately west of the Office Building and is the primary route for Bartlett to access the property and conduct its daily operations.

After the lid of the drywell structure is accessed and either breached or removed, the approximately fifteen feet of liquids/suspended solids will be removed from the drywell/cesspool via vacuum truck. After this removal, the sediments/soils underlying the liquids/suspended solids will be removed. It is anticipated that approximately four feet of sediment/soil will be removed. The depth of the removal of the sediment/soil



will be determined in the field largely based on the depth of the drywell structure (currently unknown). BC will work in conjunction with the Remedial Contractor to remove as much of the sediment/soil as possible without undermining the concrete ring of the drywell structure. Excess removal beneath the base of the drywell ring structure may undermine the structure and result in settlement of the structure, which could affect the integrity of adjacent Office Building and driveway.

The final depth of the sediment/soil removal will be measured in the field from ground surface. If possible, the base of the removal will be lined with a demarcation liner (e.g., permeable geotextile) prior to backfill to demarcate the removal depth. This depth will serve as the benchmark base elevation for future investigation activities.

2.6 Drywell Inspection and Endpoint Sampling

After the contents of the drywell have been removed, the interior will be inspected to determine if there are any additional overflow pipes. Any overflow pools that are discovered will be investigated and closed in accordance with the procedures in this work plan. In addition, as described in Sections 2.3 and 2.4, the stairway floor drain and any drain in the former Mechanic's Pit will be tested to determine if they discharge to Drywell 3. The inspection will be conducted from the ground surface; the drywell will not be entered as it is considered to be a confined space.

Based on the aforementioned analyses of LNAPL and sediment, the potential exists for organic constituents to have impacted the underlying soils through the operation of the system. Therefore, after the removal activities are completed and before backfilling the drywell, BC will collect a representative endpoint sample from the remaining sediments/native soil located at the base of the removal effort. The sample will be obtained via manual device (e.g. pre-cleaned hand auger, dredge) or by GeoProbe®.

If this base sample cannot be successfully collected at the time of the closure due to the depth and logistics, the sample will be obtained after completion of the backfill by either drilling through the backfill materials (with a direct-push blind point sampler) or through a "sleeve" installed through the backfill materials. The sleeve, if necessary, will consist of a length of polyvinylchloride (PVC) piping, which will be installed during the backfill activities. After the completion of the drilling the sleeve will either be removed or grouted and closed in-place. The soil sample will be submitted to a NYSDOH-ELAP approved laboratory for VOC, SVOC, pesticide, herbicide, and metals analysis by the methods listed above in Section 1.2. All drilling, sampling and laboratory analysis will be performed in accordance with the requirements and quality assurance methods in the July 2007 RI/FS Work Plan.

If the analytical results for the base soil indicate significant impacts, additional sampling of soil and/or groundwater below the closed drywell may be proposed as part of the RI.

2.7 Backfill Acceptance Criteria and Paving

The drywell will be backfilled with clean fill consisting of either pea gravel or a coarse aggregate meeting New York State Department of Transportation (NYSDOT) Standard Specifications for Coarse Aggregate Size designation Type 1 or Type 2.

All fill material delivered to the Site shall be obtained from a source approved by the NYSDOT and accompanied by documentation from the source stating the fill is certified "clean" from a virgin source and free of contaminants. The facility name, owner name and street address of the fill source(s) will be provided to the NYSDEC, for review and approval, prior to on-site use. As discussed with the NYSDEC, no sampling



of the backfill materials will be required as the materials will be naturally occurring stone and/or crushed stone.

After Drywell 3 is backfilled, appropriate paving subbase will be installed and the asphalt paving will be restored to pre-remediation conditions.

If it was not possible to remove the entire dome of Drywell 3, a pre-cast or poured concrete cover will be placed over the drywell opening (before paving) to prevent settling of the paving in the event that the backfill settles.

3. WASTE MANAGEMENT

All waste materials generated from the closure activities (i.e., liquids/suspended solids, soil/sediments, fluids generated from decontamination activities, personal protective equipment, etc.) will be properly containerized, labeled, stored, transported and disposed of at off-site facilities permitted to accept these materials. It is anticipated that all waste materials generated as part of the closure activities will be characterized as non-hazardous waste. As such, liquids/suspended solids, sanitary waste sludges and associated soils will be removed via vacuum trucks or guzzler/vactor trucks and transported via these vehicles to the designated disposal facilities.

As noted above, the origins of the organic constituents detected in the contents of Drywell 3 are unknown, and the waste materials that will be removed in conjunction with the closure of the drywell are not considered to be Listed Hazardous Wastes. Therefore, characterization of the waste materials as Hazardous or Non-Hazardous will be based solely on the results of testing for RCRA characteristics (e.g. toxicity, ignitability, corrosivity and reactivity).

If the results of any additional, in-situ waste characterization sampling (Section 2.2) indicate the wastes must be classified as hazardous waste, waste management practices may be modified. These modifications may include removal of the wastes from the vacuum trucks and placement into alternate containers for transportation to permitted hazardous waste treatment/storage/disposal facilities.

4. HEALTH AND SAFETY

All work will be performed in accordance with all OSHA, state and industry safety standards. The activities will be performed in accordance with the Health and Safety Plan entitled "Health and Safety Plan, Remedial Investigation and Feasibility Study Work Plan, Bartlett Tree Company Site, 345 Union Avenue, Westbury, Nassau County, New York, prepared by BC and dated July 2007. This Health and Safety Plan was previously submitted to the NYSDEC as part of the Remedial Investigation/Feasibility Study Work Plan prepared by BC and dated March 2008. The plan will be updated to specifically address the health and safety practices that will be employed by site workers participating in the drywell closure activities. All closure activities are expected to be performed using Level D personal protective equipment.

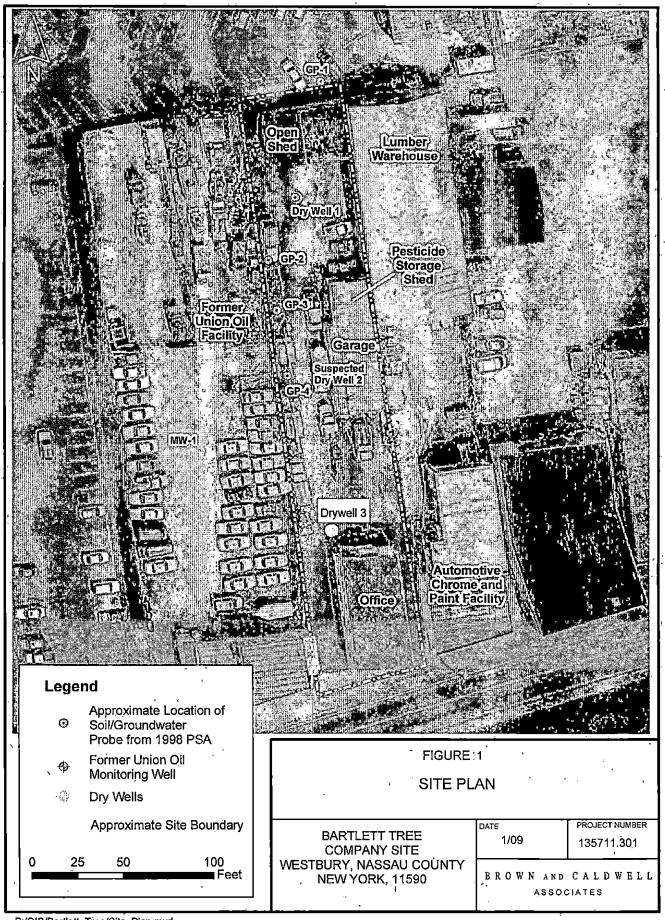
A Community Air Monitoring Plan (CAMP) will be implemented during all closure field activities (i.e., in-situ waste characterization, removal of sediments/soils from Drywell 3, investigation borings, etc.). The requirements of the CAMP are contained in Appendix C of the HASP.

5. SCHEDULE

Closure activities are anticipated to commence approximately two (2) weeks following approval of this work plan and completion of the sanitary sewer connection, and take approximately one week to complete. BC will provide oversight of the Remedial Contractor to ensure compliance with this letter work plan, monitor for health and safety, and conduct the CAMP. BC will also serve as the Site Health and Safety Officer to ensure that the requirements of the HASP are adhered to.

Closure of Drywell 3 Work Plan

FIGURES



Closure of Drywell 3 Work Plan

APPENDIX A

Preliminary Waste Characterization Data



Analytical Laboratory Reports

LNAPL (DW-3-OIL)

Sediment (DW-3-SOIL)



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Lancaster Laboratories Sample No. G55489386

Group No. 1113441

DW-3-OIL Grab Oil Sample Bartlett Tree

Collected:10/03/2008 12:20 by CM

Account Number: 09286

Submitted: 10/04/2008 10:30 Reported: 11/07/2008 at 10:49

Brown & Caldwell 234 Hudson Ave. Albany NY 12210

Discard: 11/22/2008

BTOIL SDG#: BTR03-14

| | | | | As Received | | |
|-------------|---|-----------------|--------------------|--------------------|--------------|----------|
| CAT | | | As Received | Method | | Dilution |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 02012 (I | Qualitative GC Fingerprint | n.a. | N.D. | · | see below | 1 |
| •' | The GC fingerprint for this samp | le is most sim | milar to our Diese | el/ #2 Fuel oil | | |
| | reference chromatogram. When we | | | | | |
| | normal hydrocarbon range as petr weight. | coleum distilla | ate, it is present | at 84% by | • | |
| 00159 | Mercury | 7439-97-6 | N.D. | 0.0311 | mg/kg | 1 . |
| 01643 | Aluminum | 7429-90-5 | 14.9 J | 3.28 | mg/kg | 1 |
| 01650 | Calcium ' ' | 7440-70-2 | 69.0 | 5.95 | mg/kg | 1 |
| 01654 | Iron | 7439-89-6 | 26.5 | 4.62 | mg/kg | 1 |
| 01657 | Magnesium | 7439-95-4 | N.D. | 2.49 | mg/kg | 1 |
| 01662 | Potassium | 7440-09-7 | N.D. | 3.25 | mg/kg | 1 |
| 01667 | Sodium | 7440-23-5 | N.D. | 36.6 | mg/kg | 1 |
| 06925 | Thallium | 7440-28-0 | N.D. | 6.23 | mg/kg | 5 |
| | Due to the rigorous nature of th | e SW-846 3050 | digestion for o | il samples, | | |
| | the Laboratory Control Sample th | at was digeste | ed with this samp | le was out | | |
| | of specification low for thallium | m with a recov | very of 33%. | | | |
| | .x | , | | | | |
| | The quantitation limit for thall | ium was raised | ì | | | |
| | due to the nature of the sample | | | | | |
| 06935 | Arsenic | 7440-38-2 | 4.67 | 0.931 | mg/kg | 1 |
| | Due to the rigorous nature of th | ne SW-846 3050E | digestion for o | il samples, | <u>-</u> . 2 | |
| | the Laboratory Control Sample th | at was digeste | ed with this samp: | le was out | | |
| | of specification low for arsenic | with a recove | ery of 72%. | | | |
| 06936 | Selenium | 7782-49-2 | 4.73 | 0.961 | mg/kg | 1 |
| | Due to the rigorous nature of th | ne SW-846 3050E | digestion for o | il samples, | J. J | |
| | the Laboratory Control Sample th | | - ' | - | | |
| | of specification low for selenium | | ` - | | • | |
| 06944 | Antimony | 7440-36-0 | N.D. | 0.980 | mg/kg | 1 |
| | Due to the rigorous nature of th | ne SW-846 30501 | digestion for o | il samples, | | |
| | the Laboratory Control Sample th | at was digeste | ed with this samp | le was out , | | |
| | of specification low for antimor | | | | , | |
| 06946 | Barium , | 7440-39-3 | 1.19 | 0.0392 | mg/kg | 1 |
| 06947 | Beryllium | 7440-41-7 | N.D. | 0.0667 | mg/kg | 1 . |
| 06949 | Cadmium | 7440-43-9 | N.D. | 0.137 | mg/kg | 1 |
| 06951 | Chromium | 7440-47-3 | N.D. | 0.578 | mg/kg | 1 |
| 06952 | Cobalt | 7440-48-4 | N.D. | 0.186 | mg/kg | 1 |
| 06953 | Copper | 7440-50-8 | 2.58 | 0.196 | mg/kg | 1 |
| 06955 | Lead | 7439-92-1 | 0.617 J | 0.588 | mg/kg | 1 - |
| 06961 | Nickel | 7440-02-0 | N.D. | 0.598 | mg/kg | 1 |
| 06966 | Silver | 7440-22-4 | N.D. | 0.167 | mg/kg | 1 |
| | | | - | | J. 2 | |



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Lancaster Laboratories Sample No. G55489386

Group No. 1113441

DW-3-OIL Grab Oil Sample

Bartlett Tree

01220 Aldrin

01223

01859

01221 p,p-DDT

01222 Dieldrin

01981 Alpha BHC

01982 · Beta BHC

01983' Delta BHC

Endrin

Methoxychlor

Collected:10/03/2008 12:20

by CM

Account Number: 09286

Submitted: 10/04/2008 10:30 Reported: 11/07/2008 at 10:49 Discard: 11/22/2008 Brown & Caldwell 234 Hudson Ave. Albany.NY 12210

| ${	t BTOIL}$ | SDG#: BTR03-14 | | | | | |
|--------------------|--------------------------------|-------------------|-------------------|--------------------|----------------|----------|
| | | | | As Received | | |
| CAT | | | As Received | Method | | Dilution |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 06971 | Vanadium | 7440-62-2 | N.D. | 0.167 | mg/kg | 1 |
| 06972 | Zinc | 7440-66-6 | 16.6 | 0.647 | mg/kg | 1 |
| 00174 | PCBs in Oil | • | | | | |
| 04815 | PCB-1016 | 12674-11-2 | N.D. | 1,.000 | ug/kg | 1 |
| 04816 | PCB-1221 | 11104-28-2 | N.D. | 600 | ug/kg | 1 |
| 04817 | PCB-1232 | 11141-16-5 | N.D. | 800 | ug/kg | 1 |
| 04818 | PCB-1242 | 53469-21-9 | N:D. | 500 | ug/kg | 1 |
| ² 04819 | PCB-1248 . | 12672-29-6 | N.D. | 1,300 | ug/kg | 1 |
| 04820 | PCB-1254 | 11097-69-1 | N.D. | 600 | ug/kg | 1 |
| 04821 | PCB-1260 | 11096-82-5 | N.D. | 1,000 | ug/kg | 1 |
| 01865 | Herbicides in Soils | | | | | i |
| 04174 - | 2,4-D | 94-75-7 | N.D. | 36 | ug/kg | 1 ' |
| 04175 | Dinoseb | 88-85-7 | N.D. | 24 . | ug/kg | 1 |
| 04176 | 2,4,5-TP | 93-72-1 | N.D. | 2.3 | ug/kg | , 1 . |
| 041/77 | 2,4,5-T | 93-76-5 | 3.0 J. | 2.5 | ug/kg | 1. |
| 04249 | Dalapon | 75-99-0 | N.D. | 90 | ug/kg | 1 |
| 04250 | Dicamba | 1918-00-9 | N.D. | 12 | ug/kg | 1 |
| 04251 | MCPP (Mecoprop) | 93-65-2 | N.D. | 2,300 | ug/kg | 1 |
| 04252 | MCPA | 94-74-6 | N.D. | 11,000 | ug/kg | 1 |
| 04253 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | . 24 | ug/kg | 1 |
| 04254 | 2,4-DB | 94-82-6 | 46· J · | 19 . | ug/ k g | 1. |
| | - Due to the nature of the sam | ple matrix, a red | duced aliquot was | s used | | |
| | for analysis. The reporting | | | | | |
| 7 | Due to interfering peaks on | - | , the values repo | orted represent | | |
| | the lowest reporting limits | attainable. | | | | • |
| 06000 | TCL Pesticides in Solids | | • | | | |
| 01218 | Gamma BHC - Lindane | 58-89-9 | N.D. | 20 , | 'ug/kg | 20 |
| 01219 | Heptachlor | 76-44-8 | N.D. | 20 | ug/kg | 20 |
| | | | | | | |

309-00-2

50-29-3

60-57-1

72-20-8

72-43-5

319-84-6

319-85-7

319-86-8

N.D.

N.D.

N.D.

N.D.

N.D.

N.D.

N.D.

N.D.

40

40

40

40

20

23

200

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

ug/kg

20

20. 20

20

20

20



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Lancaster Laboratories Sample No. G55489386

Group No. 1113441

DW-3-OIL Grab Oil Sample

Bartlett Tree

Collected:10/03/2008 12:20 by

by CM

Account Number: 09286

Submitted: 10/04/2008 10:30 Reported: 11/07/2008 at 10:49

Brown & Caldwell 234 Hudson Ave. Albany NY 12210

Discard: 11/22/2008

BTOIL SDG#: BTR03-14

| | | | | | As Received | | |
|-------|---------------------------------|----------------|-------------|---------|--------------------|-------|----------|
| CAT | e ' | | As Receiv | red | Method | · | Dilution |
| No. | Analysis Name | CAS Number | Result | | Detection Limit | Units | Factor |
| 01984 | Heptachlor Epoxide | 1024-57-3 | N.D. | ٠, | 20 | ug/kg | 20 |
| 01985 | p,p-DDE | 72-55-9 | N.D. | | 40 | ug/kg | 20 |
| 01986 | p,p-DDD | 72-54-8 | N.D. | | 40 | ug/kg | 20 |
| 01988 | Toxaphenè | 8001-35-2 | N.D. | | 1,300 | ug/kĝ | 20 |
| 01989 | Endosulfan I | 959-98-8 | N.D. | | 26 | ug/kg | 20 |
| 01990 | Endosulfan II | 33213-65-9 | N.D. | | 40 | ug/kg | 20 |
| 01991 | Endosulfan Sulfate | 1031-07-8 | N.D. | | 44 | ug/kg | 20 |
| 01992 | Endrin Aldehyde | 7421-93-4 | N.D. | | 40 | ug/kg | 20 |
| 03017 | Endrin Ketone | 53494-70-5 | N.D. | | 40 | ug/kg | 20 |
| 03025 | Alpha Chlordane | 5103-71-9 | 89 J | Г | 20 | ug/kg | 20 |
| 03026 | Gamma Chlordane | 5103-74-2 | Ń.D. | | 100 | ug/kg | 100 |
| | Due to the nature of the sample | matrix, a red | uced aliquo | ot and | a dilution were | | |
| | used for analysis. The reporti | ng limits were | raised acc | cording | ly. | | |
| 06678 | OP Pesticides in Solids | | | • | | 16 | |
| 03077 | Ethion | 563-12-2 | N.D. | | 6,600 | ug/kg | 1 |

| 03077 | Ethion | 563-12-2 | N.D. | 6,600 | ug/kg | 1 |
|---------|---------------------------|------------|--------|---------|---------|---|
| 03078 | Trithion | 786-19-6 | N.D. | 6,600 | ug/kg | 1 |
| 03081 . | Ethyl Parathion | 56-38-2 | N.D. | 6,600 | ug/kg | 1 |
| 03082 | Malathion | 121-75-5 | N.D. | 6,600 | ug/kg | 1 |
| 03657 | Famphur | 52-85-7 | N.D. | 6,600 | ug/kg | 1 |
| 06679 | Dichlorvos | 62-73-7 | N.D. | 6,600 | ug/kg | 1 |
| 06680 | Mevinphos | 7786-34-7 | N.D. | 6,600 . | ug/kg | 1 |
| 06681 | Demeton-O | 298-03-3 | N.D. | 6,600 | ug/kg | 1 |
| 06682 · | Ethoprop | 13194-48-4 | N.D. | 6,600 | ug/kg | ı |
| 06683 | Naled | 300-76-5 | N.D. | 6,600 · | ug/kg | 1 |
| 06684 | 'Phorate | 298-02-2 | N.D. | 6,600 | ug/kg | 1 |
| 06685 | Demeton-S | 126-75-0 | N.D. | 6,600 | ug/kg | 1 |
| 06686 | Diazinon | 333-41-5 | N.D. | 6,600 | ug/kg | 1 |
| 06687 | Disulfoton | 298-04-4 | N.D. | 6,600 | ug/kg ´ | 1 |
| 06688 | Methyl Parathion | 298-00-0 | N.D. | 6,600 . | ug/kg | 1 |
| 06689 | Ronnel | 299-84-3 | N.D. | 6,600 | ug/kg | 1 |
| 06690 | Fenthion | 55-38-9 | N.D. | 6,600 | ug/kg | 1 |
| 06691 | Dursban (Chlorpyrifos) | 2921-88-2 | N.D. , | 6,600 | ug/kg | 1 |
| 06692 | Trichloronate | 327-98-0 | N.D. | 6,600 | ug/kg | 1 |
| 06693 | Merphos | 150-50-5 | N.D. | 6,600 | ug/kg | 1 |
| 06694 | Stirofos | 961-11-5 | N.D. | 6,600 | ug/kg | 1 |
| 06695 | Tokuthion . | 34643-46-4 | N.D. | 6,600 | ug/kg ' | 1 |
| 06696 | Fensulfothion | 115-90-2 | N.D. | 15,000 | ug/kg | 1 |
| 06697 | Bolstar | 35400-43-2 | N.D. | 6,600 - | ug/kg | 1 |
| 06698 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | 6,600 | ug/kg | 1 |
| 06699 | Coumaphos | 56-72-4 | N.D. | 6,600 | ug/kg · | 1 |



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Lancaster Laboratories Sample No. G55489386

Group No. 1113441

As Received

DW-3-OIL Grab Oil Sample

Bartlett Tree

Collected:10/03/2008 12:20 by CN

y CM Account Number: 09286

Submitted: 10/04/2008 10:30 Reported: 11/07/2008 at 10:49

Brown & Caldwell 234 Hudson Ave. Albany NY 12210

Discard: 11/22/2008

03768 Fluorene

03769 '4-Chlorophenyl-phenylether

BTOIL SDG#: BTR03-14

| | CAT | | | As Received | Method | | Dilution |
|---|-------|-------------------------------|------------------|-------------------|--------------------|----------------|----------|
| | No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| | 08342 | EPN | 2104-64-5 | N.D. | 6,600 | ug/kg | 1 |
| | | The holding time was not met. | | | | | |
| | | outside of the extraction hol | ding time. The | client was notif | fied and | _ | |
| | | approved proceeding with the | analysis. | | • | | |
| | | Due to the nature of the samp | le matrix, a red | luced aliquot was | s úsed | | |
| | | for analysis. The reporting | limits were rais | sed accordingly. | | | |
| | 04688 | TCL SW846 Semivolatiles Soil | | | | | |
| | 01185 | Phenol | 108-95-2 | N.D. | 100,000 | ug/kg | 20 |
| | 01186 | 2-Chlorophenol | 95-57-8 | N.D. | 100,000 . | ug/kg | 20 |
| | 01187 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | 100,000 | ug/kg | . 20 |
| | 01188 | N-Nitroso-di-n-propylamine | 621-64-7 | N.D. | 100,000 | ug/kg | 20 |
| | 01189 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | 100,000 | ug/kg | 20 |
| | 01190 | 4-Chloro-3-methylphenol | 59-50-7 | N.D. | 200,000 | ug/kg | 20 |
| | 01191 | Acenaphthene | 83-32-9 | N.D. | 100,000 | ug/kg | 20 |
| | 01192 | 4-Nitrophenol | 100-02-7 | N.D. | 500,000 | ug/kg | 20 |
| | 01193 | 2,4-Dinitrotoluene | 121-14-2 | N.D. | 200,000 | ug/kg | 20 |
| | 01194 | Pentachlorophenol | 87-86-5 | N.D. | 500,000 | ug/kg | 20 |
| | 01195 | Pyrene | 129-00-0 | N.D. | 100,000 | ug/kg | 20 |
| | 03746 | 2-Nitrophenol | 88-75-5 . | N.D. | 100,000 | ug/kg | 20 |
| | 03747 | 2,4-Dimethylphenol | 105-67-9 | N.D. | 200,000 | ug/kg | 20 |
| | 03748 | 2,4-Dichlorophenol | 120-83-2 | N.D. | 100,000 | ug/kg | 20 |
| | 03749 | 2,4,6-Trichlorophenol | 88-06-2 | N.D. | 100,000 | ug/kg | 20 |
| • | 03750 | 2,4-Dinitrophenol | 51-28-5 | N.D. | 2,000,000 | ug/kg | 20 |
| | 03751 | 4,6-Dinitro-2-methylphenol | 534-52-1 | N.D. | 500,000 | ug/kg | 20 |
| | 03753 | bis(2-Chloroethyl)ether | 111-44-4 | N.Ď. | 100,000 | ug/kg | 20 |
| | 03754 | 1.3-Dichlorobenzene | 541-73-1 | N.D. | 100,000 | ug/kg | 20 |
| | 03755 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 100,000 | 'ug/kg | 20 |
| | 03757 | Hexachloroethane | 67-72-1 | N.D. | 100,000 | u g/k g | 20 |
| | 03758 | Nitrobenzene | 98-95-3 | N.D. | 100,000 | ug/kg | 20 |
| | 03759 | Isophorone | 78-59-1 | N.D. | 100,000 | ug/kg | 20 |
| | 03760 | bis(2-Chloroethoxy)methane | 111-91-1 | N.D. | 100,000 | ug/kg | 20 |
| | 03761 | Naphthalene | 91-20-3 | 580,000 | 100,000 | ug/kg | 20 |
| | 03762 | Hexachlorobutadiene | 87-68-3 | N.D. | 200,000 | ug/kg | 20 |
| | 03763 | Hexachlorocyclopentadiene | 77-47-4 | N.D. | 500,000 | ug/kg | 20 |
| | 03764 | 2-Chloronaphthalene | 91-58-7 | ' N.D. | 100,000 | 'ug/kg | 20 |
| | 03765 | Acenaphthylene | 208-96-8 | n.D. | 100,000 | ug/kg | 20 |
| | 03766 | Dimethylphthalate | 131-11-3 | N.D. | 200,000 | ug/kg | 20 |
| | 03767 | 2,6-Dinitrotoluene | 606-20-2 | N.D. | 100,000 | ug/kg | 20 . |
| | | | | | | ** | |

86-73-7

7005-72-3

150,000

N.D.

100,000

100,000

ug/kg

ug/kg

20

20



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Lancaster Laboratories Sample No. G55489386

Group No. 1113441

As Received

DW-3-OIL Grab Oil Sample Bartlett Tree

Collected:10/03/2008 12:20

by CM Account Number: 09286

Submitted: 10/04/2008 10:30 Reported: 11/07/2008 at 10:49 Discard: 11/22/2008

Brown & Caldwell 1234 Hudson Ave. Albany NY 12210 ,

BTOIL SDG#: BTR03-14

| | | | _ | ' we vecerved ' | | |
|-------|---|-----------------------------------|---------------------------------------|-------------------------|--------|----------|
| CAT | | | As Received | Method | | Dilution |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 03770 | Diethylphthalate / | 84-66-2 | N.D. | 200,000 | ug/kg | 20 |
| 03772 | N-Nitrosodiphenylamine | 86-30-6 | N.D. | 100,000 | ug/kg | 20 |
| | N-nitrosodiphenylamine decompos The result reported for N-nitro total of both compounds. | e's in the GC i sodiphenylamin | nlet forming dip ne represents the | henylamine. combined | | 4 |
| 03773 | 4-Bromophenyl-phenylether | 101-55-3 | N.D. | 100,000 | ug/kg | 20. |
| 03774 | Hexachlorobenzene | 118-74-1 | N.D. | 100,000 | ug/kg | 20 |
| 03775 | Phenanthrene | 85-01-8 | 270,000 J | 100,000 | ug/kg | 20 |
| 03776 | Anthracene | 120-12-7 | N.D. | 100,000 | ug/kg | 20 |
| 03777 | Di-n-butylphthalate | 84-74-2 | N.D. | 200,000 | ug/kg | 20 ′ |
| 03778 | Fluoranthene : | 206-44-0 | N.D. | 100,000 | ug/kg | 20 |
| 03780 | Butylbenzylphthalate | 85-68-7 | N.D. | 200,000 | ug/kg | 20 |
| 03781 | Benzo (a) anthracene | 56-55-3 | N.D. | 100,000 | /ug/kg | 20 |
| 03782 | Chrysene | 218-01-9 | N.D. | 100,000 | ug/kg | 20 |
| 03783 | 3,3'-Dichlorobenzidine | 91-94-1 | N.D. | 300,000 | ug/kg | 20 |
| 03784 | bis(2-Ethylhexyl)phthalate | 117-81-7 | N.D. | 200,000 | ug/kg | 20 |
| 03785 | Di-n-octylphthalate | 117-84-0 | N.D. | 200,000 | ug/kg | 20 |
| 03786 | Benzo (b) fluoranthene | 205-99-2 | N.D. ,. | 100,000 | ug/kg | 20 |
| 03787 | Benzo(k) fluoranthene | 207-08-9 | N.D. | 100,000 | ug/kg̃ | .20 |
| 03788 | Benzo (a) pyrene | 50-32-8 | N.D. | 100,000 | ug/kg | 20 |
| 03789 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 100,000 | ug/kg | 20 |
| 03790 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 100,000 | ug/kg | ,20 |
| 03791 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 100,000 | ug/kg | 20 |
| 04690 | 2-Methylphenol | 95-48-7 | N.D. | 200,000 | ug/kg | 20 |
| 04691 | 2,2'-oxybis(1-Chloropropane) | 108-60-1 | N.D. | 100,000 | ug/kg | 20 |
| 04692 | 4-Methylphenol | 106-44-5 | N.D. | 200,000 | ug/kg | 20 |
| 2460 | 3-Methylphenol and 4-methylphen chromatographic conditions used for 4-methylphenol represents t | for sample an he combined to | alysis. The resultant of both comp | lt reported ounds. | 0 | |
| 04693 | 4-Chloroaniline | 106-47-8 | N.D. | 200,000 | ug/kg | 20 |
| 04694 | 2-Methylnaphthalene | 91-57-6 | 1,900,000 | 100,000 | ug/kg | 20 |
| 04695 | 2,4,5-Trichlorophenol | 95-95-4 | N.D. | 200,000 | ug/kg | 20 |
| 04696 | 2-Nitroaniline | 88-74-4 | N.D. | 100,000 | ug/kg | 20 |
| 04697 | 3-Nitroaniline | 99-09-2 | N.D. | 200,000 | ug/kg | 20 |
| 04698 | Dibenzofuran | 132-64-9 | N.D. | 100,000 | ug/kg | 20 |
| 04700 | 4-Nitroaniline | 100-01-6 | N.D. | 200,000 | ug/kg | 20 |
| 04702 | Carbazole | 86-74-8 | N.D. | 100,000 | ug/kg | 20 |
| | Due to sample matrix interferen | ces observed d | luring the extrac | tion, the | | - |

Due to sample matrix interferences observed during the extraction, the normal reporting limits were not attained.

Due to the sample matrix an initial dilution was necessary to perform the analysis. Therefore, the reporting limits for the GC/MS semivolatile compounds were raised.



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Lancaster Laboratories Sample No. G55489386

Group No. 1113441

DW-3-OIL Grab Oil Sample

Bartlett Tree

Collected:10/03/2008 12:20

by CM

Account Number: 09286

Submitted: 10/04/2008 10:30 Reported: 11/07/2008 at 10:49 Brown & Caldwell 234 Hudson Ave. Albany NY 12210

Discard: 11/22/2008

| BTOIL | SDG#: BTR03-14 | | , | | | |
|---------|----------------------------|------------|-------------|--------------------|---------|----------|
| | | | | As Received | | |
| CAT | _ 4_ | _ | As Received | Method | | Dilution |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| . 06292 | TCL by 8260 (soil) | | | | | |
| | | | | , | • | |
| 05444 | Chloromethane , | 74-87-3 | N.D. | 5,000 | ug/kg | 2500 |
| 05445 | Vinyl Chloride | 75-01-4 | N.D. | 2,500 | ug/kg | 2500 |
| 05446 | Bromomethane | 74-83-9 | N.D. | 5,000 | ug/kg | 2500 |
| 05447 | Chloroethane | 75-00-3 | N.D. | 5,000 | ug/kg | 2500 |
| 05449 | 1.1-Dichloroethene | 75-35-4 | N.D. | 2,500 | ug/kg | 2500 |
| 05450 | Methylene Chloride | 75-09-2 | 7,600 J | 5,000 | ug/kg , | 2500 |
| 05451 | trans-1,2-Dichloroethene . | 156-60-5 | N.D. | 2,500 | ug/kg | 2500 |
| 05452 | 1,1-Dichloroethane | 75-34-3 | N.D. | 2,500 | ug/kg | 2500 |
| 05454 | cis-1,2-Dichloroethene | 156-59-2 | N.D. , | 2,500 | ug/kg | 2500 |
| 05455 | Chloroform | 67-66-3 | N.D. | 2,500 | ug/kg | 2500 |
| 05457 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 2,500 | ug/kg | 2500 |
| 05458 | Carbon Tetrachloride | 56-23-5 | N.D. | 12,500 | ug/kg | 2500 |
| 05460 | Benzene | 71-43-2 | N.D. | 1,300 | ug/kg | 2500 |
| 05461 | 1,2-Dichloroethane | 107-06-2 | N.D. | 2,500 | ug/kg - | 2500 |
| 05462 | Trichloroethene | 79-01-6 | N.D. | 2,500 | ug/kg | 2500 |
| 05463 | 1,2-Dichloropropane | 78-87-5 | N.D. | 2,500 | ug/kg | 2500 |
| 05465 | Bromodichloromethane | 75-27-4 | N.D. | 2,500 | 'ug/kg | 2500 |
| 05466 | Toluene | 108-88-3 | 45,000 | 2,500 | ug/kg | 2500 |
| 05467 | 1,1,2-Trichloroethane | 79-00-5 | N.D. | 2,500 | ug/kg | 2500 |
| 05468 | Tetrachloroethene | 127-18-4 | N.D. | 2,500 | ug/kg | 2500 |
| 05470 | Dibromochloromethane | 124-48-1 | N.D. | 2,500 | ug/kg | 2500 |
| 05472 | Chlorobenzene ' | 108-90-7 | N.D. | 2,500 | ug/kg | 2500 |
| 05474 | Ethylbenzene | 100-41-4 | 68,000 | 2,500 | ug/kg | 2500 |
| 05477 | Styrene | 100-42-5 | N.D. | 2,500 | ug/kg | 2500 |
| 05478 | Bromoform | 75-25-2 | N.D. | 2,500 | ug/kg | 2500 |
| 05480 | 1,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 2,500 | ug/kg | 2500 |
| 06293 | Acetone | 67-64-1 | N.D. | 18,000 | ug/kg | 2500 |
| 06294 | Carbon Disulfide | 75-15-0 | N.D. | 2,500 | ug/kg | 2500 |
| 06296 | 2-Butanone | 78-93-3 | N.D. | 10,000 | ug/kg | 2500 |
| 06297 | trans-1,3-Dichloropropene | 10061-02-6 | N.D. | 2,500 | ug/kg | 2500 |
| 06298 | cis-1,3-Dichloropropene | 10061-01-5 | N.D. | 2,500 | ug/kg | 2500 ' |
| 06299 | 4-Methyl-2-pentanone | 108-10-1 | N.D. | 7,500 | ug/kg | 2500 ' |
| 06300 | 2-Hexanone | 591-78-6 | N.D. | 7,500 | ug/kg | 2500 |
| 06301 | Xylene (Total) | 1330-20-7 | 2,600,000 | 25,000 | ug/kg | 25000 |

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



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Lancaster Laboratories Sample No. G55489386 Group No. 1113441

DW-3-OIL Grab Oil Sample

Bartlett Trèe

Collected:10/03/2008 12:20

by CM

CAS Number

Account Number: 09286

Submitted: 10/04/2008 10:30 Reported: 11/07/2008 at 10:49

Brown & Caldwell 234 Hudson Ave.

Discard: 11/22/2008

Albany NY 12210

BTOIL

SDG#: BTR03-14

As Received

CAT No.

Analysis Name

As Received Result

Method

Detection Units Limit

Dilution Factor

Laboratory Chronicle

| | i | | | | | |
|---------|-----------------------------------|--------------------|---------|------------------|----------------------|----------|
| CAT | , | | | Analysis | | Dilution |
| No. | Analysis Name | Method | | Date and Time | Analyst | Factor |
| 02012 | Qualitative GC Fingerprint | SW-846 8015B modi: | fied 1 | 10/13/2008 17:52 | Heather E Williams | 1 |
| 00159 | Mercury | SW-846 7471A | 1 | 10/14/2008 10:01 | Damary Valentin | 1 |
| 01643 | Aluminum | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L Snyder | 1 |
| 01650 | Calcium | SW-846 6010B | 1. | 10/31/2008 03:36 | Tara L Snyder | 1 |
| 01654 | Iron | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L Snyder | 1 |
| 01657 | Magnesium | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L Snyder | 1 |
| 01662 | ·Potassium | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L Snyder | 1 |
| 01667 | Sodium | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L Snyder | 1 ' |
| 06925 | Thallium | SW-846 6010B | 1. | 10/31/2008 06:13 | Joanne M Gates | 5 |
| 06935 | Arsenic | SW-846 6010B | 1 | 10/26/2008 00:48 | Thomas F McLamb Sr | 1 . |
| 06936 | Selenium ' | SW-846 6010B | 1 | 10/26/2008 00:48 | Thomas F McLamb Sr | 1 |
| 06944 | Antimony | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L Snyder | 1 |
| 06946 | Barium | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L`Snyder | 1 |
| 06947 | Beryllium | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L Snyder | 1 |
| 06949 | Cadmium | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L Snyder | , 1 |
| 06951 | Chromium | SW-846 6010B | 1', | 10/20/2008 01:24 | Tara L Snyder | 1, |
| 06952 | Cobalt | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L Snyder | 1 |
| 06953 | Copper | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L Snyder | 1 |
| 06955 | Lead | SW-846 6010B | 1. | 10/20/2008 01:24 | Tara L Snyder | ĺ |
| 06961 | Nickel . | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L Snyder | 1 |
| 06966 | Silver | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L Snyder | 1 |
| 06971 | Vanadium | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L Snyder | . 1 . |
| 06972 | Zine | SW-846 6010B | 1 | 10/20/2008 01:24 | Tara L Snyder | , 1 |
| 00174 | PCBs in Oil | SW-846 8082 | 1 | 10/10/2008 05:27 | Jamie L Brillhart | 1 ` |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 10/15/2008 09:15 | Tricia M Gusbar | 1 |
| . 06000 | TCL Pesticides in Solids | SW-846 8081A | 1 | 10/20/2008 23:13 | Lindsey K Lafferty | 20 |
| 06000 | TCL Pesticides in Solids | SW-846 8081A | 1 | 10/20/2008 23:24 | Lindsey K Lafferty | 100 |
| 06678 | OP Pesticides in Solids | SW-846 8141A | 1 | 10/23/2008 23:04 | Michele D Hamilton | 1 |
| 04688 | TCL SW846 Semivolatiles | SW-846 8270C | 1 | 10/15/2008 15:12 | Joseph M Gambler | 20 |
| 06292 | TCL by 8260 (soil) | SW-846 8260B | 1 | 10/15/2008 16:27 | Angela D Sneeringer | 2500 |
| 06292 | TCL by 8260 (soil) | SW-846 8260B | 1 | 10/15/2008 16:50 | Angela D Sneeringer | 25000 |
| 00373 | DP 21 Bulk Prep of Oil Samples | SW-846 5030A | 1 | 10/14/2008 10:03 | Lori L Reilling | n.a. |
| 00381 | BNA Soil Extraction | SW-846 3550B | 2 | 10/14/2008 22:40 | Patricia L Foreman | 1 |
| 00815 | Oil Sample PCB's Cleanup Ext. | SW-846 3580A | 1 | 10/08/2008 11:30 | Heidi L Ortenzi | 1 |
| 01015 | Oil Metals Digestion | SW-846 3050B mod | ified 1 | 10/13/2008 18:00 | Annamaria Stipkovits | 1 |
| 01015 | Oil Metals Digestion | SW-846 3050B mod | ified 2 | 10/29/2008 18:20 | Annamaria Stipkovits | 1 . |



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Lancaster Laboratories Sample No. G55489386

Group No. 1113441

DW-3-OIL Grab Oil Sample

Bartlett Tree

Collected: 10/03/2008 12:20 by CM Account Number: 09286

 Submitted: 10/04/2008 10:30
 Brown & Caldwell

 Reported: 11/07/2008 at 10:49
 234 Hudson Ave.

 Discard: 11/22/2008
 Albany NY 12210

, ,

/Extraction

| E | STOIL | SDG#: BTR03-14 | | | | | |
|---|-------|-------------------------------------|------------------------------|----|------------------|----------------------|---|
| C | 4181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1. | 10/09/2008 22:30 | Olivia I Santiago | 1 |
| O | 5711 | SW SW846 Hg Digest | SW-846 7471A modified | 1 | 10/13/2008 22:45 | Annamaria Stipkovits | 1 |
| C | 6006 | PPL Pesticide Solid ' Extraction | SW-846 3550B | 1 | 10/13/2008 09:00 | Deborah M Zimmerman | 1 |
| О | 6677 | OP Pesticides Solid | SW-846 3540C | 1 | 10/21/2008 09-00 | Deborah M Zimmorman | 1 |



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Lancaster Laboratories Sample No. SW5489367

Group No. 1113440

DW-3 Grab Soil Sample Bartlett Tree

Collected:10/01/2008 15:35

by CM

Account Number: 09286

Submitted: 10/04/2008 10:30 Reported: 10/29/2008 at 09:35

Brown & Caldwell 234 Hudson Ave. Albany NY 12210

Dry

Discard: 11/13/2008

BTDW3 SDG#: BTR02-07

| CAT | | • | Dry | Method | | Dilution |
|-------|--|----------------------------------|---|----------------------------|---------|----------|
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 00159 | Mercury | 7439-97-6 | 0.510 | 0.0204 | mg/kg | 1 |
| 01643 | Aluminum | 7429-90-5 | 641 | 5.95 | mg/kg | 1 |
| 01650 | Calcium | 7440-70-2 | 714 | 10.9 | mg/kg | 1 |
| 01654 | Iron | 7439-89-6 | 1,420 | 8.37 | mg/kg | 1 |
| 01657 | Magnesium | 7439-95-4 | 116 | 4.51 | mg/kg | 1 . |
| 01662 | Potassium | 7440-09-7 | 91.1 | 5.88 | mg/kg → | 1 |
| 01667 | Sodium | 7440-23-5 | 73.3 J | 66.3 | mg/kg | 1 |
| 06925 | Thallium | 7440-28-0 | N.D. | 2.26 | mg/kg | 1 |
| 06935 | Arsenic | 7440-38-2 | N.D. | 1.69 | mg/kg | 1 |
| 06936 | Şelenium | 7782-49-2 | N.D. | 1.74 | mg/kg | 1 |
| 06944 | Antimony ' | 7440-36-0 | N.D. | 1.78 | mg/kg | 1 |
| 06946 | Barium | 7440-39-3 | 33.7 | 0.0711 | mg/kg | 1 |
| 06947 | Beryllium | 7440-41-7 | N.D. | 0.121 | mg/kg | 1 |
| 06949 | Cadmium / | 7440-43-9 | 2.50 | 0.249 | mg/kg | 1. |
| 06951 | Chromium | 7440-47-3 | 4.27 | 1.05 | mg/kg | 1 |
| 06952 | Cobalt | 7440-48-4 | N.D. | 0.338 | mg/kg | 1. |
| 06953 | Copper ' | 7440-50-8 | 188 | 0.356 | mg/kg | 1 |
| 06955 | Lead | 7439-92 - 1 | 59.0 | 1.07 | mg/kg | 1 |
| 06958 | Manganese | 7439-96-5 | 8.33 | 0.0995 | mg/kg | 1 |
| 06961 | Nickel | 7440-02-0 | 4.91 | 1.08 | mg/kg | 1 |
| 06966 | Silver | 7440-22-4 | 0.608 J | 0.302 | mg/kg | 1 ' |
| 06971 | Vanadium | 7440-62-2 | 1.24 | 0.302 | mg/kg | 1 |
| 06972 | Zine | 7440-66-6 | 108 | 1.17 | mg/kg | 1 |
| 00111 | Moisture | n.a. | 44.3 | 0.50 | ક | 1 |
| | "Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis. | in weight of t moisture resul | the sample after of t reported above | oven drying at is on an | · | |
| 01865 | Herbicides in Soils | | | ** | | |
| 04174 | 2,4-D | 94-75-7 | N.D. | 22 ' | ug/kg | 1 |
| 04175 | Dinoseb | 88-85-7 | N.D. | 14 | ug/kg | ı |
| 04176 | 2,4,5-TP | 93-72-1 | N.D. | 1.3 | ug/kg | 1 |
| 04177 | 2,4,5-T | 93-76-5 | N.D. | 1.5 | ug/kg | 1 |
| 04249 | Dalapon | 75-99-0 | N.D. | 54 | ug/kg | 1 |
| 04250 | Dicamba | 1918-00-9 | N.D. | 7.2 | ug/kg | 1 |
| 04251 | MCPP (Mecoprop) | 93-65-2 | 29,000 | 1,300 | ug/kg | 1 |
| 04252 | MCPA | 94-74-6 | N.D. | 1,400 | ug/kg | 1 |
| 04253 | 2,4-DP (Dichloroprop) | 120-36-5 | N.D. | 14 | ug/kg | 1 |
| 04254 | 2,4-DB | 94-82 - 6 | N.D. | 11 | ug/kg | 1 |

02033 PCBs in Soil



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Lancaster Laboratories Sample No. SW5489367

Group No. 1113440

DW-3 Grab Soil Sample Bartlett Tree

Collected:10/01/2008 15:35 by CM

CM Account Number: 09286

Submitted: 10/04/2008 10:30 Reported: 10/29/2008 at 09:35 Brown & Caldwell 234 Hudson Ave. Albany NY 12210

Drv

Discard: 11/13/2008

BTDW3 SDG#: BTR02-07

| CAT Dry Method No. Analysis Name CAS Number Result Detection Unit Limit | Dilution Factor |
|---|--------------------|
| | s Factor |
| | |
| n e e e e e e e e e e e e e e e e e e e | |
| 01993 PCB-1016 12674-11-2 N.D. 296 ug/kg | g ີ 50 |
| 01994 PCB-1221 11104-28-2 N.D. 1,260 ug/kg | g 50 |
| 01995 PCB-1232 11141-16-5 N.D. 476 ug/kg | g '50 |
| 01996 PCB-1242 , 53469-21-9 N.D. 691 ug/kg | ġ 50 |
| 01997 PCB-1248 12672-29-6 N.D. 503 ug/kg | g .50 |
| 01998 PCB-1254 11097-69-1 N.D. 1,530 ug/kg | g 50 ' |
| 01999 PCB-1260 11096-82-5 N.D. 566 ug/kg | g 50 |

Due to interfering peaks on the chromatogram, the value reported for PCB-1254 represents the lowest reporting limit attainable. Despite numerous cleanup methods, our usual reporting limit was not attained.

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

| 06000 | TCL | Pesticides | in | Solids |
|-------|-----|------------|----|--------|

| 01218 | Gamma BHC - Lindane | 58-89-9 | N.D. | 6.0 | ug/kg | 10 ' |
|-------|---------------------|------------|-------|-------|-------|------|
| 01219 | Heptachlor , | 76-44-8 | N.D. | 6.0 - | ug/kg | 10 |
| 01220 | Aldrin . | 309-00-2 | N.D. | 12 | ug/kg | 10 |
| 01221 | p,p-DDT | 50-29-3 | 380 | 12 | ug/kg | 10 |
| 01222 | Dieldrin | 60-57-1 | N.D. | ,12 | ug/kg | 10 |
| 01223 | Endrin | 72-20-8 | N.D. | 12 | ug/kg | 10 |
| 01859 | Methoxychlor | 72-43-5 | N.D. | 60 | ug/kg | 10 |
| 01981 | Alpha BHC , | 319-84-6 | N.D. | 6.0 | ug/kg | 10 |
| 01982 | Beta BHC | 319-85-7 | 46 | 6.7 | ug/kg | 10 |
| 01983 | Delta BHC | 319-86-8 | N.D. | 11 | ug/kg | 1.0 |
| 01984 | Heptachlor Epoxide | 1024-57-3 | N.D. | 6.0 | ug/kg | 10 |
| 01985 | p,p-DDE | 72-55-9 | 420 | 12 | ug/kg | 10 |
| 01986 | p,p-DDD | 72-54-8 | 760 | 120 | ug/kg | 100 |
| 01988 | Toxaphene | 8001-35-2 | N.D. | 390 - | ug/kg | 10 |
| 01989 | Endosulfan I | 959-98-8 | N.D. | 7,.8 | ug/kg | 10 |
| 01990 | Endosulfan, II | 33213-65-9 | N.D. | 12 | ug/kg | 10 |
| 01991 | Endosulfan Sulfate | 1031-07-8 | N.D. | 12 | ug/kg | 10 |
| 01992 | Endrin Aldehyde | 7421-93-4 | N.D. | 12 , | ug/kg | 10 |
| 03017 | Endrin Ketone | 53494-70-5 | N.D. | 12 | ug/kg | 10 |
| 03025 | Alpha Chlòrdane , | 5103-71-9 | 1,300 | 60 | ug/kg | 100 |
| 03026 | Gamma Chlordane | 5103-74-2 | 1,500 | 60 | ug/kg | 100' |
| | | | | | | |

Due to insufficient sample size, we were unable to report our usual reporting limits. The values reported represent the lowest reporting limits attainable.

06678 OP Pesticides in Solids



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Lancaster Laboratories Sample No. SW5489367

Group No. 1113440

DW-3 Grab Soil Sample Bartlett Tree

Collected:10/01/2008 15:35

01190 4-Chloro-3-methylphenol

01191 Acenaphthene

by CM

Account Number: 09286

Submitted: 10/04/2008 10:30 Reported: 10/29/2008 at 09:35 Brown & Caldwell 234 Hudson Ave. Albany NY 12210

Discard: 11/13/2008

| | | •. | | Dry | | |
|-------|---------------------------|------------|--------|--------------------|----------------|----------|
| CAT | | | Dry | Method | | Dilutio |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 03077 | Ethion | 563-12-2 | N.D. | 39 - | ug/kg | 1 . |
| 03078 | Trithion | 786-19-6 | N.D. | 39 | ug/kg | 1 |
| 03081 | Ethyl Parathion | 56-38-2 | N.D. | 39 | ug/kg | 1 |
| 03082 | Malathion | 121-75-5 | N.D. | 39 | ug/kg | 1 |
| 03657 | Famphur | 52-85-7 | N.D. | 39 | ug/kg | 1 |
| 06679 | Dichlorvos | 62-73-7 | ' N.D. | 39 | ug/kg | 1 |
| 06680 | Mevinphos | 7786-34-7 | N.D. | 39 | ug/kg | 1 |
| 06681 | Demeton-O | 298-03-3 | N.D. | '39 | ug/kg | 1. |
| 06682 | Ethoprop | 13194-48-4 | N.D. | 39 | ug/kg | 1 |
| 06683 | Naled | 300-76-5 | N.D. | 39 | ug/kg | 1 |
| 06684 | Phorate | 298-02-2 | Ń.D. | 39 | ug/kg | 1 |
| 06685 | Demeton-S | 126-75-0 | N.D. | . 39 | ug/kg | 1. |
| 06686 | Diazinon'' / | 333-41-5 | N.D. | 39 | ug/kg | 1 |
| 06687 | Disulfoton · | 298-04-4 | N.D. | 39 | ug/kg | 1 |
| 06688 | Methyl Parathion | 298-00-0 | `N.D. | 39 | u g/k g | 1 |
| 06689 | Ronnel | 299-84-3 | N.D. | 39 | ug/kg | 1 |
| 06690 | Fenthion | 55-38-9 | N.D. | 39 | ug/kg | 1 |
| 06691 | Dursban (Chlorpyrifos) | 2921-88-2 | 'N.D. | 39 | ug/kg | 1 |
| 06692 | Trichloronate | 327-98-0 | N.D. | 39 . | ug/kg | 1 |
| 06693 | Merphos | 150-50-5 | N.D. | 39 | ug/kg | 1 |
| 06694 | Stirophos | 961-11-5 | N.D. | 39 ′ | ug/kg | <u>i</u> |
| 06695 | Tokuthion | 34643-46-4 | N.D. | 39 | ug/kg | í |
| 06696 | Fensulfothion | 115-90-2 | N.D. | 90 | ug/kg | 1 |
| 06697 | Bolstar | 35400-43-2 | N.D. | 39 | ug/kg | 1 |
| 06698 | Guthion (Azinphos-methyl) | 86-50-0 | N.D. | :39 | ug/kg | 1 |
| 06699 | Coumaphos | 56-72-4 | N.D. | 39 | ug/kg | 1 |
| 08342 | EPN | 2104-64-5 | N.D. | 39 | ug/kg | 1 |

Due to a laboratory error, the sample was inadvertently spiked with the wrong compounds. A reextraction was performed outside the sample hold time, so all results are reported from the original extract. Similar results were obtained in both extracts.

59-50-7

| 04688 | TCL SW846 Semivolatiles Soil | | | | | | | |
|--------|------------------------------|----------|--------|---|-----|---|-------|-----|
| 01185 | Phenol . | 108-95-2 | N.D. | | 60 | | ug/kg | 1 |
| 01186 | 2-Chlorophenol | 95-57-8 | N.D. | | 60 | | ug/kg | 1 . |
| 01187 | 1,4-Dichlorobenzene | 106-46-7 | N.D. | • | 60 | | ug/kg | 1 |
| 013.88 | N-Nitroso-di-n-propylamine | 621-64-7 | _ N.D. | | 60. | • | ug/kg | 1 |
| 01189 | 1,2,4-Trichlorobenzene | 120-82-1 | N.D. | | 60 | | ug/kg | 1 |

N.D.

N.D.

120

60

ug/kg.

ug/kg



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Lancaster Laboratories Sample No. SW5489367

Group No. 1113440

DW-3 Grab Soil Sample Bartlett Tree

Collected:10/01/2008 15:35

by CM

Account Number: 09286

Submitted: 10/04/2008 10:30 Reported: 10/29/2008 at 09:35 Discard: 11/13/2008

Brown & Caldwell 234 Hudson Ave. Albany NY 12210

.

| | SDG#: BTR02-07 | | | Dry | , • | | |
|-------|--|------------|--------|--------------------|-------------------|-------|-----|
| CAT | | | Dry | Method | | Dilut | ion |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Facto | r |
| 01192 | 4-Nitrophenol . | 100-02-7 | N.D. | 300 | ug/kg | 1 | |
| 01193 | 2,4-Dinitrotoluene | 121-14-2 | N.D. | 120 | ug/kg | 1 | |
| 01194 | Pentachlorophenol' | 87-86-5 | N.D. | 300 | ug/kg | 1 | |
| 01195 | Pyrene | 129-00-0 | N.D. | 60 | ug/kg | 1 | |
| 03746 | 2-Nitrophenol | 88-75-5 | N.D. | 60 | , ug/kg | 1 | |
| 03747 | 2,4-Dimethylphenol | 105-67-9 | N.D. | 120 . , | ug/kg | 1 | |
| 03748 | 2,4-Dichlorophenol | 120-83-2 | N.D. | 60 | ug/kg ´ | 1 | |
| 03749 | 2,4,6-Trichlorophenol | 88-06-2 | N.D. | 60 | ug/kg | 1 | |
| 03750 | 2,4-Dinitrophenol | 51-28-5 | N.D. | 1,200 | ug/kg | 1 | ` |
| 03751 | 4,6-Dinitro-2-methylphenol | 534-52-1 | N.D. | 300 | ug/kg | 1 | |
| 03753 | bis(2-Chloroethyl)ether | 111-44-4 | N.D. | .60 | ug/kg | 1 | |
| 03754 | 1,3-Dichlorobenzene | 541-73-1 | N.D. | .~ 60 | ug/kg | 1 | |
| 03755 | 1,2-Dichlorobenzene | 95-50-1 | N.D. | 60 | ug/kg | 1 | |
| 03757 | Hexachloroethane | 67-72-1 | N.D. | 60 | ug/k g | 1 | |
| 03758 | Nitrobenzene | 98-95-3 | N.D. | 60 | ug/kg | 1 | |
| 03759 | Isophorone | 78-59-1 | N.D. | · 60 | ug/kg | 1 | |
| 03760 | bis(2-Chloroethoxy)methane | 111-91-1 | N.D. | 60 | ug/kg | 1 | |
| 03761 | Naphthalene | 91-20-3 | 5,100 | 60 | ug/kg | 1 | |
| 03762 | Hexachlorobutadiene | 87-68-3 | N.D. | 120 ' | ug/kg | 1 | |
| 03763 | Hexachlorocyclopentadiene | 77-47-4 | N.D. | 300 | ug/kg | 1 | |
| 03764 | 2-Chloronaphthalene | 91-58-7 | N.D. | 60 | ug/kg | 1 | |
| 03765 | Acenaphthylene | 208-96-8 | N.D. | 60 | ug/kg | 1 , | |
| 03766 | Dimethylphthalate | 131-11-3 | N.D. | 120 | ug/kg | 1 | |
| 03767 | 2,6-Dinitrotoluene | 606-20-2 | N.D. | 60 | 'ug/kg | 1 | |
| 03768 | Fluorene | 86-73-7 | N.D. | 60 [.] | ug/kg | 1. | |
| 03769 | 4-Chlorophenyl-phenylether | 7005-72-3 | N.D. | 60 | ug/kg | 1 | |
| 03770 | Diethylphthalate | 84-66-2 | N.D. | 120 | ug/kg | 1 | |
| 03772 | N-Nitrosodiphenylamine | 86-30-6 | N.D. | 60 | ug/k g | 1 | |
| | N-nitrosodiphenylamine decompounds. The result reported for N-nitrotal of both compounds. | | | | | | |
| 03773 | 4-Bromophenyl-phenylether | 101-55-3 | N.D. | 60 | ug/kg " | 1 | • |
| 03774 | Hexachlorobenzene | 118-74-1 | N.D. | 60 | ug/kg | 1 | |
| 03775 | Phenanthrene ' | 85-01-8 | 440 | 60 | ug/kg | 1 | |
| 03776 | Anthracene | 120-12-7 | N.D. | 60 | ug/kg | 1 | |
| 03777 | Di-n-butylphthalate | 84-74-2 | N.D. | 120 | ug/kg | 1 | |
| 03778 | Fluoranthene | 206-44-0 | N.D. | 60 | ug/kg | 1 | |
| 03780 | Butylbenzylphthalate | 85-68-7 | N.D. | 120 | ug/kg ' | 1 | |
| 03781 | Benzo(a) anthracene | 56-55-3 | и.р. ' | 60 | ug/kg | ,1 | |
| 03782 | Chrysene | 218-01-9 | N.D. | 60 | ug/kg | 1 | |
| 03783 | 3,3'-Dichlorobenzidine | 91-94-1 | N.D. | 180 | ug/kg | · 1 | |
| 03784 | bis(2-Ethylhexyl)phthalate | 117-81-7 | 1,600 | 120 | ug/kg | 1 | |



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Lancaster Laboratories Sample No. SW5489367

Group No. 1113440

DW-3 Grab Soil Sample Bartlett Tree

Collected:10/01/2008 15:35

by CM

Account Number: 09286

Submitted: 10/04/2008 10:30 Reported: 10/29/2008 at 09:35 Discard: 11/13/2008 Brown & Caldwell 234 Hudson Ave. Albany NY 12210

BTDW3 SDG#: BTR02-07

| RIDM3 | SDG#: BTR02-07 | | | • | | |
|-------|---|------------------|---------------|--------------------|-------|----------|
| | | | • | Dry | | F |
| CAT | | | Dry | Method | | Dilution |
| No. | Analysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 03785 | Di-n-octylphthalate | 117-84-0 | N.D. | 120 | ug/kg | 1 |
| 03786 | Benzo(b) fluoranthene | 205-99-2 | N.D. | 60 | ug/kg | 1. |
| 03787 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 60 | ug/kg | 1 |
| 03788 | Benzo(a)pyrene | 50-32 - 8 | N.D. | 60 | ug/kg | 1 |
| 03789 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 60 | ug/kg | 1 |
| 03790 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 60 | ug/kg | 1 |
| 03791 | Benzo(g,h,i)perylene | 191-24-2 | N.D. | 60 | ug/kg | 1 |
| 04690 | 2-Methylphenol · | 95-48-7 | N.D. | 120 | ug/kg | 1 |
| 04691 | 2,2'-oxybis(1-Chloropropane) | 108-60-1 | N.D. | 60 | ug/kg | 1. |
| 04692 | 4-Methylphenol | 106-44-5 | N.D. | 120 | ug/kg | 1 |
| | 3-Methylphenol and 4-methylpher chromatographic conditions used for 4-methylphenol represents t | d for sample an | alvsis. The r | esult reported | | |
| 04693 | 4-Chloroaniline | 106-47-8 | N.D. | 120 | ug/kg | 1 |
| 04694 | 2-Methylnaphthalene | 91-57-6 | 4,500 | 60 | ug/kg | ı. |
| 04695 | 2,4,5-Trichlorophenol | 95-95-4 | N.D. | 120 | ug/kg | · 1 |
| 04696 | 2-Nitroaniline | 88-74-4 | N.D. | · 60 | ug/kg | 1 |
| 04697 | 3-Nitroaniline | 99-09-2 | N.D. | 120 | ug/kg | 1. |
| 04698 | Dibenzofuran | 132-64-9 | N.D. | 60 | ug/kg | 1 |
| 04700 | 4-Nitroaniline | 100-01-6 | N.Ď. | 120 | ug/kg | 1 |
| 04702 | Carbazole | 86-74-8 | N.D. | 60 | ug/kg | . 1 |
| 06292 | TCL by 8260 (soil) | | | | | |
| 05444 | Chloromethane | 74-87-3 | N.D. | 180 | ug/kg | 49.5 |
| 05445 | Vinyl Chloride | 75-01-4 | N.D. | 89 | ug/kg | 49.5 |
| 05446 | Bromomethane | 74-83-9 | N.D. | 180 | ug/kg | 49.5 |
| 05447 | Chloroethane | 75-00 - 3 | N.D. | 180 | ug/kg | 49.5 |
| 05449 | 1,1-Dichloroethene | 75-35-4 | N.D. | 89 | ug/kg | 49.5 |
| 05450 | Methylene Chloride | 75-09-2 | N.D. | 180 | ug/kg | 49.5 |
| 05451 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 89 | ug/kg | 49.5 |
| 05452 | 1,1-Dichloroethane | 75-34-3 | N.D. | 89 | ug/kg | 49.5 |
| 05454 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 89 | ug/kg | 49.5 |
| 05455 | Chloroform | 67-66-3 | N.D. | 89 | ug/kg | 49.5 |
| 05457 | 1,1,1-Trichloroethane | 71-55-6 | N.D. | 89 | ug/kg | 49.5 |
| 05458 | Carbon Tetrachloride | 56-23-5 | N.D. | 89 | ug/kg | 49.5 |
| 05460 | Benzene | 71-43-2 | N.D. | 44 | ug/kg | 49.5 |
| 05461 | 1,2-Dichloroethane | 107-06-2 | N.D. | 89 | ug/kg | 49.5 |
| 05462 | Trichloroethene | 79-01-6 | N.D. | 89 | ug/kg | 49.5 |
| 05463 | 1,2-Dichloropropane | 78-87-5 | N.D. | 89 | ug/kg | 49.5 |
| 05465 | Bromodichloromethane | 75-27-4 | N.D. | 89 | ug/kg | 49.5 |
| 05466 | Toluene | 108-88-3 | 3,700 | 89 | ug/kg | 49.5 |
| | | | | | | • |



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Lancaster Laboratories Sample No. SW5489367

Group No. 1113440

DW-3 Grab Soil Sample Bartlett Tree

Collected:10/01/2008 15:35

by 'CM

Account Number: 09286

Submitted: 10/04/2008 10:30 Reported: 10/29/2008 at 09:35

Brown & Caldwell 234 Hudson Ave. Albany NY 12210

Discard: 11/13/2008

BTDW3 SDG#: BTR02-07

| | • | | | Dry | | |
|----------|--------------------------|------------|--------|--------------------|-------|------------|
| CAT | . | | Dry | Method | | Dilution . |
| No. A | nalysis Name | CAS Number | Result | Detection Limit | Units | Factor |
| 05467 1 | ,1,2-Trichloroethane . | 79-00-5 | N.D. | 89 ' | ug/kg | 49.5 |
| 05468 T | etráchloroethene | 127-18-4 | N.D. | 89 | ug/kg | 49.5 |
| 05470 D | ibromochloromethane | 124-48-1 | N.D. | 89. | ug/kg | 49.5 |
| 05472 C | hlorobenzene | 108-90-7 | N.D. | 89 | ug/kg | 49.5 |
| 05474 E | thylbenzene | 100-41-4 | 2,900 | 89 | ug/kg | 49.5 |
| 05477 St | tyrene | 100-42-5 | N.D. | 89 | ug/kg | 49.5 |
| 05478 B: | romoform | 75-25-2 | N.D. | 89 | ug/kg | 49 5 |
| 05480 1 | ,1,2,2-Tetrachloroethane | 79-34-5 | N.D. | 89 | ug/kg | 49.5 |
| 06293 A | cetone ` | 67-64-1 | N.D. | 620 | ug/kg | 49.5 |
| 06294 C | arbon Disulfide | 75-15-0 | N.D. | .89 | ug/kg | 49.5 |
| 06296 2 | -Butanone | 78-93-3 | N.D. | 360 | ug/kg | 49.5 |
| 06297 t: | rans-1,3-Dichloropropene | 10061-02-6 | N.D. | 89 | ug/kg | 49.5 |
| 06298 c | is-1,3-Dichloropropene | 10061-01-5 | N.D. | 89 | ug/kg | 49.5 |
| 06299 4 | -Methyl-2-pentanone | 108-10-1 | N.D. | 270 | ug/kg | 49.5 |
| 06300~ 2 | -Hexanone | 591-78-6 | N.D. | 270 | ug/kg | 49.5 |
| 06301 X | ylene (Total) | 1330-20-7 | 34,000 | 89 | ug/kg | 49.5 |

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

| CAT | | _ | | Analysis | | Dilution |
|--------|----------------|---------------|--------|------------------|--------------------|----------|
| No. | 'Analysis Name | Method | Trial# | Date and Time | Analyst | Factor |
| 00159 | Mercury . | SW-846 7471A | 1 | 10/13/2008 11:42 | Damary Valentin | 1 |
| 01643 | Aluminum | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 01650 | Calcium | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 01654 | Iron | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 01657 | Magnesium ` | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 01662 | Potassium | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 01667 | Sodium | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 06925 | Thallium | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 06935 | Arsenic | SW-846, 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 , |
| 06936 | Selenium | SW-846 6010B | 1 | 10/16/2008 17:29 | Eric L Eby | 1 |
| .06944 | Antimony | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 06946 | Barium | SW-846 6010B | 1. | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 06947 | Beryllium | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 06949 | Cadmium , | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 06951 | Chromium . | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 06952 | Cobalt | SW-846 6010B | .1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |



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Lancaster Laboratories Sample No.

Group No. 1113440

DW-3 Grab Soil Sample Bartlett Tree

Collected:10/01/2008 15:35 Account Number: 09286

Submitted: 10/04/2008 10:30 Reported: 10/29/2008 at 09:35 Discard: 11/13/2008

Brown & Caldwell 234 Hudson Ave. Albany NY 12210

| BTDW3 | SDG#: BTR02-07 | • | | • • | | |
|--------------------|-----------------------------------|------------------------------|-----|--------------------|---------------------|------|
| 06953 | Copper | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 06955 | Lead | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 06958 | Manganese | SW-846 6010B | 1. | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 . |
| 06961 | Nickel | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 06966 | Silver | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 06971 | Vanadium | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 . |
| 06972 | Zinc | SW-846 6010B | 1 | 10/15/2008 22:14 | Thomas F McLamb Sr | 1 |
| 00111 | Moisture | SM20 2540 G | 1 | 10/08/2008 16:45 | Scott W Freisher | 1 |
| 01865 | Herbicides in Soils | SW-846 8151A | 1 | 10/09/2008 02:32 | Tricia M Gusbar | 1 |
| 02033 | PCBs in Soil | SW-846 8082 | 1 | 10/15/2008 02:34 | Jamie L Brillhart | 50 |
| 06000 | TCL Pesticides in Solids | 'SW-846 8081A | 1 | 10/16/2008 21:17 | Lindsey K Lafferty | 10 |
| 06000 | TCL Pesticides in Solids | SW-846 8081A | 1. | 10/16/2008 21:28 | Lindsey K Lafferty | 100 |
| 06678 [.] | . OP Pesticides in Solids | SW-846 8141A | 1 | 10/13/2008 03:09 | Michele D Hamilton | 1 |
| 04688 | TCL SW846 Semivolatiles | SW-846 8270C | 1 | , 10/14/2008 15:07 | Joseph M Gambler | 1 |
| 06292 | TCL by 8260 (soil) | SW-846 8260B | 1 | 10/09/2008 14:42 | Angela D Sneeringer | 49.5 |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 1 | 10/06/2008 17:24 | Eric L Vera | n.a. |
| 00374 | GC/MS VOCs - Bulk Sample Prep | SW-846 5035A Modified | 2 | 10/06/2008 17:23 | Eric L Vera | n.a. |
| 00381 | BNA Soil Extraction | SW-846 3550B | 1 | 10/08/2008 00:00 | Olivia Arosemena | 1 |
| 04181 | Herbicide Soil Extraction | SW-846 3550B/SW-846 8151A | 1 | 10/07/2008 23:40 | Olivia I Santiago | . 1 |
| 05708 | SW SW846 ICP Digest | SW-846 3050B | 1 | 10/12/2008 11:20 | Mirit S Shenouda | 1 |
| 05711 | SW SW846 Hg Digest | SW-846 7471A modified | 1 | 10/12/2008 15:30 | Mirit S Shenouda | 1 |
| 06006 | PPL Pesticide Solid Extraction | SW-846 3550B | 1 | 10/09/2008 09:00 | Kerrie A Freeburn | 1 |
| 06006 | PPL Pesticide Solid Extraction | SW-846 3550B | . 2 | 10/09/2008 11:00 | Olivia Arosemena | 1 |
| 06646 | GC/MS HL Bulk Sample Prep | SW-846 5035A Modified, | 1 | 10/06/2008 17:22 | Eric L Vera | n.a. |
| 06677 | OP Pesticides Solid Extraction | SW-846 3540C | 1 | 10/08/2008 16:45 | Wanda F Oswald | 1 |
| | | | _ | | ٠, | |

New York State Department of Environmental Conservation Division of Environmental Remediation, Region One

50 Circle Road, SUNY @ Stony Brook, New York 11790-3409

Phone: (631) 444-0240 • FAX: (631) 444-0248

Website: www.dec.state.ny.us



February 23, 2009

Mr. Frank Williams
Supervising Hydrogeologist
Brown and Caldwell Environmental Engineering & Consultants
234 Hudson Avenue
Albany, NY 12210

Re: Bartlett Tree Company #1-30-074
Draft Closure Plan for Drywell #3: February 2009

Dear Mr. Williams,

The New York State Department of Environmental Conservation (NYSDEC), the New York State Department of Health and the Nassau County Department of Health (NCDH) have reviewed the referenced plan and provide the following comment:

Sections 2.3 & 2.4: The Departments have no objection to collecting and analyzing bottom sediments from the mechanic's pit or the stairway floor drain. However, if these structures are determined to have solid bottoms, it must be determined where their contents discharge to. If the mechanic's pit or stairway floor drain discharge to a leaching structure other than Drywell #3, a bottom sample should be collected from that structure for laboratory analysis in accordance with the work plan.

The NYSDEC hereby approves the work plan. Please remove the word draft from its cover and re-submit it electronically. Please notify the NYSDEC and the NCDH five days prior to field activities so that representatives can be present to oversee the field work. If you should have any questions, please feel free to contact me at (631) 444-0246.

Sincerely,

Jamlie Ascher

Engineering Geologist 2

cc: C. Vasudevan
W. Parish
D. Miles
S. Messier
R. Weitzman
J. Lovejoy

From:

"Williams, Frank" <FWilliams@Brwncald.com>
"Jamie Ascher" <jxascher@gw.dec.state.ny.us>

To: CC:

"Weitzman, Robert A (NASSAU)" <Robert.Weitzman@hhsnassaucountyňy.us>, "L...

Date:

2/23/2009 3:57 PM

Subject:

Bartlett Tree Company Site - Closure of Drywell 3

Attachments:

WP022309_clos_drywell_3_wrk_pln_.pdf

Jamie,

We received the DEC's letter dated 2/23/09 approving the work plan for closure of Drywell 3, and are hereby submitting the final work plan. We added a specification under Sections 2.3 and 2.4 that, if the mechanic's pit or floor drain is found to discharge to a leaching structure other than Drywell 3, a bottom sample will be collected (as feasible) from that leaching structure.

We will notify you and the NCDH five days prior to startup of field activities.

The hook-up of the office building to the municipal sanitary sewer was completed last week and concrete should be poured this week, after which final approval is expected.

Frank

<<WP022309_clos_drywell_3_wrk_pln_.pdf>>
Frank J. Williams, PG
Brown and Caldwell
234 Hudson Avenue
Albany, NY 12210
phone (518) 472-1988
fax (518) 472-1986
mailto:fwilliams@brwncald.com

MEMORANDUM

NASSAU COUNTY DEPARTMENT OF HEALTH

106 Charles Lindbergh Blvd.

Uniondale, NY 11553

To:

New York State Department of Health

Bureau of Environmental Exposure Investigation

Attn: Don Miles

From:

Department of Health

Date:

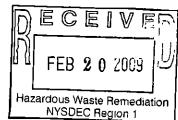
February 19, 2009

Subject:

Draft Closure of Drywell #3 Work Plan

Bartlett Tree Company Site

345 Union Avenue Westbury, NY 11590 DEC Registry ID# 130074



Department staff has reviewed the Draft Closure of Drywell #3 Work Plan dated February, 2009 prepared by Brown and Caldwell Associates. The plan is acceptable to this Department with the following conditions:

- 1. In Section 2.3, Inspection of Former Mechanic's Pit, Item #3: If the bottom of the pit has a drain, the Department requires that the discharge point of the drain be located and sampled. The proposal to collect a sample of sediment from the drain is not necessary. If the discharge point of the drain is not observed in Drywell #3, or in the sanitary sewer clean-out, additional investigation will be required.
- 2. In Section 2.4, Inspection of Stairway Floor Drain: Please be advised the Department did not request that a sample of sediment be collected from inside the stairway floor drain. The Department did request that the discharge point of the drain be located and sampled. If the discharge point of the drain is not observed in Drywell #3, or in the sanitary sewer clean-out, additional investigation will be required.
- 3. NCHD must be notified 5 days prior to all field work so a representative can be present to observe the work.
- 4. A \$125 plan review fee payable to the "Nassau County Department of Health" is required to be paid by the facility.

Don Miles February 19, 2009 Page 2

Please call me at (516) 227-9538 if you have any questions.

Robert Weitzman, P.E.

Public Health Engineer II

Division of Environmental Health

RW:al

cc: NYSDEC

Attn: Walter Parish, P.E.

Jamie Ascher

NCHD

Attn: Michael J. Alarcon, P.E.

Don Irwin

Joseph DeFranco John Lovejoy

(1038)

From:

"Lovejoy, John (NASSAU)" < John.Lovejoy@hhsnassaucountyny.us>

To:

"Jamie Ascher" <jxascher@gw.dec.state.ny.us>

CC:

"Weitzman, Robert A (NASSAU)" <Robert.Weitzman@hhsnassaucountyny.us>

Date:

2/18/2009 11:46 AM

Subject:

RE: Bartlett Tree Site #1-30-074: Closure Plan for Drywell 3

Hi Jamie:

I've reviewed the revised "Closure of Drywell 3 Work Plan" dated February 2009. Based on my review, the revisions look good and address all the comments made by this Department in our January 5 and 6, 2009 memorandums to the DEC and NYSDOH.

My only minor comment is that bottom sediment samples do not have to be collected from either the interior floor pit or the exterior stainwell drain if it is determined that the structures have solid, intact concrete bottoms with drain discharges that are "hard-piped" to other drainage locations (sampling is needed for disposal or re-use of the backfill in the pit). A sample is required of the sediments from the ultimate drainage location (as the plan discusses) if the pit or exterior drain discharge to a structure with an earthen bottom.

Note that Bob Weitzman is out of the office today and wanted to go over the plan with me before sending out an official comment memo to you. I do not anticipate that he will have any further comments, but can't say for certain. I will let you know tomorrow afternoon after I meet with Bob if he has any additional comments, at which point will send you the formal comment memorandum.

John Lovejoy
Public Health Sanitarian II
Bureau of Environmental Protection
Nassau County Department of Health
106 Charles Lindbergh Blvd.
Uniondale, New York 11553
516-227-9564
John.Lovejoy@hhsnassaucountyny.us

----Original Message----

From: Jamie Ascher [mailto:jxascher@gw.dec.state.ny.us]

Sent: Thursday, February 12, 2009 9:02 AM

To: Weitzman, Robert A (NASSAU)

Cc: Frank Williams; Walter Parish; Lovejoy, John (NASSAU); DeFranco,

Joseph (NASSAU)

Subject: Bartlett Tree Site #1-30-074: Closure Plan for Drywell 3

Good Morning

Does anyone have any additional comments on the revised closure plan for Drywell 3? Please email your concurrence or comments. Thanks

Jamie

>>> "Williams, Frank" <FWilliams@Brwncald.com> 2/10/2009 7:21 PM >>>

The attached work plan has been revised and expanded to address your comments as well as those received from Robert Weitzman, PE and John Lovejoy of the Nassau County Department of Health. Please let me know if you have any concerns or questions. Upon your approval we will finalize the work plan and provide hard copies to you and the NCDH.

Thank you.

Frank <<WP020509_clos_drywell_3_wrk_pln_.pdf>>
Frank J. Williams, PG
Brown and Caldwell
234 Hudson Avenue

Albany, NY 12210 phone (518) 472-1988 fax (518) 472-1986 mailto:fwilliams@brwncald.com