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September 29, 2009

Michael Lesser, Esq.
Legal Coordinator of Voluntary Cleanup Program
New York State Department
of Environmental Conservation
625 Broadway - 14th floor
Albany, New York 12233-1500

Re: Clarkstown Landfill - Site ID No. 344001
Riverso Property Investigation Report

Dear Mr. Lesser:

Enclosed please find the Town's investigative report with respect to the above-referenced property, along with related tables, appendices and one complete set of data books. A complete set of data books was previously provided to Mr. Riverso's engineer. If the NYSDEC requires additional sets, kindly so advise and I will promptly forward them.

After you and your staff have had the opportunity to review the report, I respectfully request that we arrange a meeting or a conference call to discuss next steps. Thank you for your attention to this matter.

Very truly yours,

Amy Mele

AM

Amy Mele
Town Attorney

Cc: Randy Whitcher, NYSDEC - via fax (518) 402-9679
Ram Pergadia, NYSDEC - via fax (845) 255-3414
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H2M

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September 25, 2009

Supervisor Alexander J. Gromack
Town of Clarkstown
10 Maple Avenue
New City, New York 10956

Re: **Clarkstown Landfill/Riverso Property**
Site Investigation Summary Report
NYSDEC Site No. 344001
H2M Project No.: CLKT 09-07

Dear Supervisor Gromack:

Holzmacher, McLendon, and Murrell, P.C. (H2M) was retained by the Town of Clarkstown (Town) to conduct a site investigation in preparation for completion of the remediation of a portion of the above referenced Riverso property, located at the northeast corner of the Clarkstown Landfill site in the hamlet of West Nyack, Town of Clarkstown. The property location is depicted on Figure 1 (Site Location Map). The site investigation field work was conducted on April 27, April 28, and May 7, 2009 in accordance with the scope of work outlined in the H2M proposal dated March 9, 2009. The scope of work and protocol was carried out based upon the Site Specific Investigation Work Plan prepared by our office dated December 2007 and as approved by the New York State Department of Environmental Conservation (NYSDEC) on January 17, 2008. Results of our investigation are summarized below.

PROJECT BACKGROUND

The Record of Decision (ROD), Issued by NYSDEC on November 28, 1995, prescribed the remedial action required for the Clarkstown Landfill, Site 344001. The ROD included the Clarkstown Landfill property (consisting of 152 acres) owned by the Town of Clarkstown (Town), and two other small adjacent properties to the northwest and northeast of Town-owned property.

The property referred to in the ROD as the "northeast portion" is the Riverso property. It is owned by Raphael Riverso of Scarsdale, New York. The entire Riverso property, identified in the Rockland County Tax Maps as Section 065-Subsection 006-Block 0001-Lot 053, is approximately 7.06 acres in size. However, based upon previous investigative field work conducted by others, the horizontal extent of municipal solid waste (msw) on the Riverso property was estimated at approximately 1.0 to 1.5 acres. Soil borings conducted in 1994 documented the presence of debris on the Riverso property to a depth of 20' to 22' feet below grade. Debris identified included paper, plastic, wood, glass, and carpet.

The Northern boundary of the Riverso property is adjacent to Route 59; its Eastern border runs along the former Eckleco property, and its Southern and Western borders are immediately adjacent to the Town-owned property. Much or all of the Southern and Western borders of the Riverso property are located in New York State and Federal Wetlands. The rear yard of the Riverso property along Route 59 is currently utilized for

storage of construction equipment and construction materials. The H2M field investigation was conducted in order to document current site conditions on the Riverso property and delineate the horizontal and vertical extent of msw attributable to Town landfilling operations in order to implement the remedy required by the ROD.

FIELD INVESTIGATION

The H2M site investigation field work was conducted on April 27, April 28, and May 7, 2009 in accordance with the scope of work outlined in the H2M December 2007 Site Specific Investigative Work Plan for the subject property. The work plan was revlewed and approved by the Town and the NYSDEC prior to implementation. H2M provided full time inspection services for the duration of the project and collected soil samples for laboratory analyses. All samples collected by H2M were submitted to H2M Labs, Inc. (NYSDOH ID No. 10428) of Melville, NY for laboratory analyses. Representatives of Woodard and Curran (White Plains, NY) were present for the duration of the project to document site conditions on behalf of the Owner and collect split samples for lab analyses. Also present at various times on the site were representatives of the Town Department of Environmental Control and NYSDEC Central Office in Albany.

Investigation Objectives

The overall field investigation objectives were to determine the extent of msw remaining on the Riverso property. The investigation results will be utilized to quantify the volume of waste remaining on the property, characterize the waste material, and evaluate available remedial measures to facilitate completion of the remedy required by the ROD.

Previous investigations have been conducted by the Town to document groundwater impacts attributable to landfilling operations. Therefore, the H2M field investigation results will not be utilized for the analysis of groundwater contamination issues.

Field Sampling Scope of Work

Based upon the site history and documented presence of buried msw on and immediately adjacent to the landfill, a field sampling program consisting of test pits, surface soil samples, and soil borings was conducted on the portion of the Riverso property where landfilling was alleged to have occurred.

The test pits and soil borings were utilized to characterize the type of waste material present on site and determine the vertical and horizontal extent of the waste material. The surface soil sample analyses were utilized to more accurately assess the surface conditions within the Riverso property that had been encroached upon by landfilling operations. Prior to commencement of the field investigation work, all existing significant appurtenances (i.e. property lines, slurry walls, landfill cap system, power cables, leachate and drainage pipes, etc.) were located and staked by a H2M field survey crew. The site and property lines are depicted on the attached Figure 1 (Property Line Stakeout-West Nyack Landfill).

Test Pits

A total of eight test pits (i.e., TP-1 through TP-8) were excavated at select locations on the subject property utilizing standard excavating equipment (i.e. track hoe). All excavation work was conducted by Victor B. Zugibe, Inc. (Garnerville, New York) under the direction of H2M. The test pit excavation work was conducted on April 27 and 28, 2009. Weather conditions during the test pit excavation work generally consisted of mostly clear skies with high humidity and temperatures in the high 80's. Test pit locations are depicted on the attached Figure 1 (Location Map-Test Pits, Surface Soil Samples, and Soil Borings).

At each individual test pit location, soil samples were collected from the excavation at select depth intervals and composited to form one single sample for lab analyses. The soil samples were visually inspected by H2M and field screened utilizing a photoionization detector (PID) for evidence of organic contamination. Soil excavation proceeded until the groundwater table was encountered. Each composite sample was analyzed for TCL (Target Compound List) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), TCL metals, PCBs and pesticides.

For waste classification purposes (i.e., non-hazardous vs. hazardous waste), the buried debris was analyzed for toxicity characteristics leaching procedure (TCLP) VOCs, SVOCS, pesticides, metals, and RCRA characteristics (ignitability, corrosivity and reactivity).

Surface Soil Sampling

A total of six surface soil samples (i.e., SS-1 through SS-6) were collected by H2M for TCL SVOC, metals, and PCB/pesticide analyses. The soil samples were collected at depths ranging from site grade to approximately 6-inches below grade utilizing hand tools. The surface soil samples were collected on April 27, 2009 in order to assess surface conditions on the subject property. Weather conditions during the site work generally consisted of mostly clear skies, high humidity, and temperatures in the high 80's. The surface soil sample locations are depicted on the attached Figure 1.

Soil Borings

A total of four soil borings (SB-1 through SB-4) were installed under the direction of H2M on May 7, 2009. Drilling services were provided by Soil Testing, Inc. of Oxford, Connecticut. Weather conditions during the soil boring work generally consisted of overcast to cloudy skies, periods of light rain and temperatures ranging from the high 50's to low 60's. At each location, soil borings were advanced from approximately 3'-4' below grade to approximately 20'-22' feet below grade and visually inspected for evidence of municipal debris. Soil boring locations are shown on the attached Figure 1.

SITE INVESTIGATION RESULTS

Test Pit Excavations- Field Observations

A total of eight test pits (TP-1 through TP-8) were excavated under H2M direction in conjunction with our field investigation. Test pit locations are depicted on the attached Figure 1. Results of our test pit excavation work are summarized below.

TP-1

Results of our test pit excavation and field observations at TP-1 indicated that msw-type debris was encountered from approximately 3 feet to 9.5 feet below grade. Material encountered consisted mainly of plastic debris. Groundwater was encountered at approximately 8 feet below grade. Continued excavation beyond approximately 9.5 feet below grade was not practical due to the presence of groundwater. A composite sample consisting of soils excavated from 3 feet to 9.5 feet below grade was collected by H2M for laboratory analyses. The test pit log for TP-1 as compiled by H2M is presented in Appendix A (Test Pit Logs).

TP-2

Results of our test pit excavation and field observations at TP-2 indicated that msw-type debris was encountered from approximately 3 feet to 12 feet below grade. Material encountered included glass, plastic, paper, and wood debris. Groundwater was encountered at approximately 12 feet below grade. Continued excavation beyond 12 feet below grade was not practical due to the presence of groundwater. A composite sample consisting of soils excavated from 3 feet to 12 feet below grade was collected by H2M for laboratory analyses. The H2M test pit log for TP-2 is presented in Appendix A.

TP-3

Results of our test pit excavation and field observations at TP-3 indicated that waste was encountered from approximately 3 feet to 9 feet below grade. Material encountered included brick, wood, and plastic. Groundwater was encountered at approximately 8.5 feet below grade. Continued excavation beyond 9 feet below grade was not practical due to the presence of groundwater. A composite sample consisting of soils excavated from 3 feet to 9 feet below grade was collected by H2M for laboratory analyses. The H2M test pit log for TP-3 is presented in Appendix A.

TP-4

Results of our test pit excavation and field observations at TP-4 indicated that msw-type debris was encountered from approximately 3 feet to 9.5 feet below grade. Material encountered included bottles, plastic, wood, and glass. Groundwater was encountered at approximately 8 feet below grade. Continued excavation beyond 9.5 feet was not practical due to the presence of groundwater. A composite sample consisting of soils excavated from 3 feet to 9.5 feet below grade was collected by H2M for laboratory analyses. The test pit log as compiled by H2M for TP-4 is presented in Appendix A.

TP-5

Results of our test pit excavation and field observations at TP-5 indicated that msw-type debris was encountered from site grade to approximately 9.5 feet below grade. Material encountered included metal debris, tires, plastic, glass, wood, and styrofoam. Groundwater was encountered at approximately 6.5 feet below grade. Continued excavation beyond 9.5 feet below grade was not practical due to the presence of groundwater. A composite sample consisting of soils excavated from 3 feet to 9.5 feet below grade was collected by H2M for lab analyses. The test pit log for TP-5 as compiled by H2M is presented in Appendix A.

TP-6

Results of our test pit excavation and field observations at TP-6 indicated that msw-type debris was encountered from approximately 2.5 feet to 11 feet below grade. Material encountered included plastic, glass, wood, metal, tires, bottles, and milk cartons. Groundwater was encountered at approximately 10.5 feet below grade. Continued excavation beyond 11 feet was not practical due to the presence of groundwater. A composite sample consisting of soils excavated from 2.5 feet to 11 feet below grade was collected by H2M for lab analyses. The test pit log for TP-6 as compiled by H2M is presented in Appendix A.

TP-7

Results of our test pit excavation and field observations at TP-7 indicated that msw-type debris was encountered from approximately 6.5 feet to 12.5 feet below grade. Material encountered included plastic, wood, metal debris, and wire. Groundwater was encountered at approximately 3.5 feet below grade. Continued excavation beyond 12.5 feet below grade was not practical due to the presence of groundwater. A composite sample consisting of soils excavated from 6.5 feet to 12.5 feet below grade was collected by H2M for lab analyses. The test pit log for TP -7 as compiled by H2M is presented in Appendix A.

TP-8

Results of our test pit excavation and field observations at TP-8 indicated that msw-type debris was encountered from approximately 6 feet to 12.5 feet below grade. Material encountered included cable, styrofoam, wood, plastic, crushed cans, and paper. Groundwater was encountered at approximately 6 feet below grade. Continued excavation beyond 12.5 feet below grade was not practical due to the presence of groundwater. A composite sample consisting of soils excavated from 6 feet to 12.5 feet below grade was collected by H2M for lab analyses. The test pit log for TP-8 as compiled by H2M is presented in Appendix A.

Test Pit Soil Samples- Laboratory Analyses Results

Composite soil samples collected from TP-1 through TP-8 were analyzed for TCL VOCs, SVOCs, metals, and PCBs/pesticides. In order to evaluate the analytical data, the lab results were compared to the Recommended Soil Cleanup Objectives (RSCOs) as presented in NYSDEC TAGM 4046 entitled "Determination of Soil Cleanup Objectives and Cleanup Levels".

In order to characterize the waste material as either non-hazardous or hazardous waste and provide analytical data for use in obtaining waste disposal approvals (if required by NYSDEC), each of the test pit samples was also analyzed for TCLP VOCs, SVOCs, PCBs/pesticides, metals, and RCRA characteristics (ignitability, corrosivity, and reactivity).

Results of our laboratory analyses are summarized below and presented on the attached Tables 1-6 (Soil Sample Results).

TCL VOCs

As presented on Table 1, results of our TCL VOC analyses indicated that all compounds were either non-detectable (ND) or present at concentrations below their respective RSCOs at all test pit sample locations, with the exception of TP-2. At TP-2, 1,2-dichloroethene (5,900 ug/kg) was detected at a concentration in excess of its respective NYSDEC RSCO of 400 ug/kg.

TCL SVOCs

As presented on Table 2, results of our TCL SVOC analyses indicated that all compounds were either ND or present at concentrations below their respective RSCOs at TP-2 through TP-4 and TP-6 through TP-8. With respect to TP-1, benzo(a) anthracene, benzo(b)flouranthene, and benzo(k)flouranthene were present at concentrations in excess of their respective RSCOs. With respect to TP-5, benzo(a) anthracene and benzo(a)pyrene were present at concentrations in excess of their respective NYSDEC RSCOs, as per TAGM 4046.

Metals

As presented on Table 3, results of our metals analyses indicated compounds were present at concentrations in excess of their respective RSCOs in all eight test pit soil samples, including mercury (TP-1, TP-2, and TP-5 through TP-7), copper (TP-1 and TP-3 through TP-7) and nickel (TP-1 and TP-3 through TP-7). Additional metals including calcium, iron, beryllium and zinc were detected at concentrations in excess of their respective RSCOs at TP-1 through TP-8.

PCBS/Pesticides

As presented on Table 3, all compounds were either ND or present at concentrations below their respective NYSDEC RSCOs at all test pit sample locations.

TCLP VOCS

As presented on Table 5, results of our TCLP VOC analyses indicated that all compounds were either ND or present at concentrations below their respective regulatory levels at all test pit sample locations.

TCLP SVOCS

As presented on Table 5, results of our TCLP SVOC analyses indicated that all compounds were ND at all test pit sample locations.

TCLP Pesticides

As presented on Table 5, results of our TCLP pesticide/PCB analyses indicated that all compounds were ND at all test pit sample locations.

TCLP Metals

As presented on Table 5, results of our TCLP metals analyses indicated that barium, lead, and selenium were detected at concentrations above their respective regulatory levels in all 8 test pit soil samples.

In addition, cadmium was detected at a concentration above its regulatory level in the soil samples collected from TP-2 through TP-7. Therefore, each of the 8 test pit soil samples exhibit the toxicity characteristic for barium, lead, and selenium. The soil samples collected from TP-2 through TP-7 exhibit the toxicity characteristic for cadmium.

RCRA Characteristics

As presented on Table 6, the results of our analyses for RCRA characteristics (ignitability, corrosivity, reactivity) indicated that the samples collected from all 8 test pit locations were not ignitable, non-corrosive, and non-reactive.

Surface Soil Samples-Laboratory Analyses Results

Surface soil samples were collected at six locations on the subject property (i.e., SS-1 through SS-6) and analyzed for TCL SVOCs, metals, and PCBs/pesticides. In order to evaluate the analytical data, the lab results were compared to the NYSDEC RSCOs for each compound, as presented in TAGM 4046. Results of our laboratory analyses are summarized below and presented on the attached Tables 2 and 4 (Soil Sample Results).

TCL SVOCs

As presented on Table 2, results of our TCL SVOC analyses indicated that SVOCs were detected at concentrations in excess of their respective NYSDEC RSCOs in the samples collected at SS-1, SS-2, and SS-5. Specifically, benzo(a)anthracene, benzo(a)pyrene, and chrysene were present at concentrations in excess of their respective soil cleanup criteria in the samples collected at SS-1, SS-2, and SS-5. Benzo(b)flouranthene was also detected at a concentration in excess of its respective RSCO in SS-1. All other compounds in SS-1, SS-2, and SS-5 were either ND or present at concentrations below their respective NYSDEC RSCOs.

With respect to SS-3, SS-4, and SS-6, our analytical results indicated that all compounds were either ND or present at concentrations below their respective NYSDEC RSCOs.

Metals

As presented on Table 4, results of our metals analyses indicated that metals were detected at concentrations above their respective NYSDEC RSCOs in the samples collected at all 6 surface soil sample locations (SS-1 through SS-6).

Specifically, mercury was present at a concentration in excess of its respective RSCO in SS-1 and SS-5, nickel in SS-1, SS-2, SS-5, and SS-6, and copper in SS-1, SS-2, and SS-5.

Additional metals including calcium, iron, beryllium and zinc were present at concentrations in excess of their respective RSCOs in SS-1 through SS-6.

PCBs/Pesticides

As presented on Table 4, our analytical results indicated that all PCBs/pesticides were either ND or present at concentrations below their respective RSCOs, as per TAGM 4046.

Soil Boring Results

A total of four soil borings (i.e., SB-1 through SB-4) were installed on the subject property to a depth of approximately 20-22 feet below site grade and visually inspected for evidence of msw. Split spoon samples were collected and inspected until a historical layer consisting of peat material was encountered in order to more accurately determine the depth extent of the buried debris. Results of our visual observations are summarized below.

SB-1

SB-1 was installed in the northern section of the Riverso property, utilized by the Owner for storage of construction related vehicles and equipment. In order to determine whether buried msw was present on this sector of the subject property, split spoon soil samples were collected at depth intervals 8'-10', 10'-12', 15'-17', and 20'-22' and inspected for evidence of msw. Results of our visual inspection did not indicate msw, but rather the presence of construction and demolition debris (i.e., brick, asphalt, and wood), encountered from 8 to 17 feet below grade. The soil boring was terminated at 22 feet below grade, a depth interval at which peat and silty material were encountered. In summary, results of our soil boring work at SB-1 did not indicate the presence of msw attributable to landfilling operations. The soil boring log for SB-1 as compiled by H2M is presented in Appendix A (Soil Boring Logs).

SB-2

SB-2 was installed in the northwest sector of the subject property in which it was suspected that buried msw is present. Split-spoon soil samples were collected from 3 feet to 22 feet below grade and inspected for evidence of msw. Debris consisting of plastic, wood, glass, and paper pulp was encountered from 14 feet to 18 feet below grade. Peat was encountered at approximately 21.5 feet below grade and the soil boring was terminated at this depth. The soil boring log for SB-2 as compiled by H2M is presented in Appendix A.

SB-3

SB-3 was installed in the east central sector of the subject property in which the presence of buried msw was suspected. Soil samples were collected from 3 to 23.5 feet below grade and inspected for evidence of msw. Debris consisting of plastic, newspaper, wire, and wood was encountered from 3 feet to 21.5 feet below grade. Peat was encountered at 23.5 feet below grade and the soil boring was terminated at this depth. The soil boring for SB-3 as compiled by H2M is presented in Appendix A.

SB-4

SB-4 was installed in the approximate southeast corner of the subject property. Soil samples were collected from 3 to 25 feet below grade and inspected for evidence of msw. Debris consisting of styrofoam, plastic, tile, glass, and metal were encountered from 3 to 24.5 feet below grade. Peat was encountered at 25 feet below grade and the soil boring was terminated at this depth. The soil boring log for SB-4 as compiled by H2M is presented in Appendix A.

SITE INVESTIGATION SUMMARY AND CONCLUSIONS

H2M directed the excavation of eight test pits and installation of four soil borings at select locations on the subject property in order to characterize the waste on site and accurately determine the depth and extent of the buried material. At each of the test pit locations, composite soil samples were retained for lab analyses to evaluate the soil quality. Soil samples were collected at select depth intervals at each of the soil boring locations and inspected for evidence of msw.

In order to assess the surface conditions at the subject property, H2M collected six surface soil samples at select locations across the face of the site. Each of the soil samples was retained for lab analyses in order to evaluate the surface soil quality.

Results of our test pit excavation work confirmed the presence of msw-type debris on a portion of the subject property. Debris was generally initially encountered at approximately 2.5 to 3 feet below site grade in the majority of the test pit excavations. Msw-type debris was initially encountered at grade at TP-5, located on the west side of the study area, and at approximately 7 feet below grade in both TP-7 and TP-8, both located in the southern sector of the property. At both TP-7 and TP-8, large rocks are present from grade until approximately 7 feet below grade, suggesting the presence of a former haul road in this area of the property. At all of the test pit locations msw-type debris was encountered at depth intervals below the surface of the groundwater table in the study area. Therefore, the depth extent of each test pit excavation was limited due to the presence of groundwater in the excavation. The soil borings were utilized to determine the presence of debris at intervals below the depth extent of the test pit excavations. Results of our soil boring installations determined that buried msw-type debris is present to a depth ranging from approximately 20 feet to 24.5 feet below grade at SB-2, SB-3, and SB-4. Each of these borings was installed on the portion of the Riverso property where the presence of buried debris was previously suspected and then identified in two soil borings conducted by others. Results of our soil boring work at SB-1 confirmed the presence of construction and demolition debris on the portion of the property utilized by the Owner for storage of construction equipment and vehicles. Further, results of our soil boring work at SB-1 did not indicate the presence of buried msw-type debris that could be attributable to historical landfilling operations.

Laboratory analyses of composite soil samples collected at each of the test pit locations indicated the presence of VOCs, SVOCs, and metals at concentrations in excess of their respective Recommended Soil Cleanup Objectives (RSCOs), as presented in NYSDEC TAGM 4046 entitled "Determination of Soil Cleanup Objectives and Cleanup Levels". Laboratory analyses of the surface soil samples indicated that SVOCs and/or metals were present at concentrations in excess of their respective RSCOs.

With respect to the test pit soil samples, H2M conducted TCLP and RCRA characteristics laboratory analyses in order to determine whether the soils and waste on the subject property could be classified as hazardous for the purposes of off-site disposal (if required by NYSDEC). This analytical data confirmed that the soils and waste materials are non-hazardous, with the exception of the TCLP metals analyses, which indicates the toxicity characteristic for lead, barium and selenium only.

NYSDEC will evaluate the results of the above field investigations as it proceeds in directing implementation including design and construction of the final remedy set forth in the ROD. As supplemental information to NYSDEC, we provide the following discussions of not only the remedy required by the ROD (Part 360 capping) but also two alternatives. These are offered to aid the NYSDEC in its analysis of protection for health and the environment as well as a cost-benefit analysis, both of which are of course critical factors in considering a remedy selection. The alternatives include:

- No further action (evaluated in the ROD).
- Part 360 capping of the approximately 1.06 acre portion of the property at which msw is present, with institutional site controls (the remedy selected by the ROD and implemented for the landfill).
- Excavation and disposal of the soils/buried msw, and backfilling the excavated area to existing grade with clean material (not evaluated in the ROD).

DISCUSSION OF NO FURTHER ACTION

Given the fact that our investigation results have documented the presence of msw on a 1.06 acre portion of the subject property, and because No Further Action was rejected as a viable alternative in the ROD, it is unlikely that NYSDEC would consider this as a viable option at this time.

DISCUSSION OF THE PART 360 CAP OPTION

The ROD selected a Part 360 cap, with leachate collection and related institutional controls, as the chosen remedial alternative. That remedial option remains viable and the best alternative for remediation of the 1.06 portion of the Riverso property. The Part 360 cap is the presumptive remedy for all remedial actions under the Part 375 program, due to its proven effectiveness in reducing the mobility of subsurface contaminants by isolating them from rain and snow infiltration. Quarterly landfill post-closure monitoring results of groundwater demonstrate decreasing (or no increases in) contaminant levels in down gradient monitoring wells, a clear indication that the chosen remedy at the landfill is achieving regulatory objectives of protecting health and the environment.

Table 7 enclosed provides a summary estimate of the total project costs to install an Part 360 impermeable cap on the approximately 1.06 acre area of the Riverso property. These costs include the construction, legal/administrative/engineering and a contingency allowance of fifteen percent (15%). The construction cost element includes the regrading and installation of the geosynthetic cap along with the installation of a continuous slurry wall and leachate collection system along the northern boundary of the 1.06 acre area (approximately 250 linear feet).

As shown in Table 7 the estimated construction cost of the impermeable cap is estimated at $845,000 and the total project cost is estimated at $1,141,000.

DISCUSSION OF EXCAVATE AND BACKFILL OPTION

Excavation and off-site disposal of waste was not considered by the ROD as a remedial option. However, because of the relatively small size of the effected Riverso property (approximately 1.06 acres versus the 152 acre remedy implemented on the Town-owned landfill), we have nonetheless projected costs in an effort to determine a cost-benefit analysis. These costs have been projected based upon excavation of all the buried msw. Since msw has been documented below the water table, de-watering of the excavated area may need to be implemented in conjunction with this remedial option. This would add an additional design element that would require separate consideration. Depending upon that design, its construction would also add a significant cost component.

Off-site disposal of soils and wastes is another major cost component. Data collected and analyzed to date by H2M, reflects that soils and buried debris in all 8 test pits of the study area exhibit the toxicity characteristic for lead, barium, and selenium. Therefore, a "worst case" scenario would be appropriate for projecting disposal costs of those soils and wastes as hazardous. Projecting costs to dispose of the entire volume of excavated materials as hazardous wastes is the only way to derive a conservative figures to budget adequate funds. However, in order to reduce the actual project costs, we offer the following alternative approach.

The excavated material could be stockpiled on site or placed into roll-off containers in conjunction with the remedial work and then re-sampled and retained for lab analyses in order to determine whether the total volume of material would still be classified as hazardous waste (after it has been subjected to re-mixing and potential dilution following excavation and staging). The sampling frequency and analytical requirements would be based upon the designated permitted facility requirements to be provided to H2M/Town by the selected contractor. The contractor would also provide unit costs for non-hazardous waste disposal and labor/equipment costs. A separate cost for de-watering the excavated area would also be provided by the selected contractor.

Table 8 enclosed provides a summary cost estimate of the total project cost to excavate to the ground water table (average of 11' deep) and remove the waste as a non-hazardous material and to then backfill the excavated 1.06 acre area with clean material. It is further assumed that the estimated 30,000 yd^3 of excavated soils and waste material would be transported to the adjacent RCSWMA transfer station (formerly the Town Solid Waste Management facility), for ultimate disposal offsite to a permitted municipal landfill. It is also assumed that the backfill material to be utilized for filling the excavated area back in will be recycled material from multiple local sources such as the adjacent RCSWMA concrete crushing operations, Tilcon quarry or construction operations in Clarkstown. Any material to be considered as backfill would be subject to the testing protocol and regulatory approval of the NYSDEC.

As shown in Table 8 the estimated construction cost of the excavate/dispose/backfill option --based upon disposal of the entire volume of waste as "non hazardous" -- is estimated at $1,340,000. The total project cost for this excavate/dispose/backfill option is estimated at $1,809,000, which includes construction, legal/administrative/engineering and contingency costs. If the waste is required to be disposed of as a hazardous waste, the tipping fees and additional transportation cost at the out of state disposal site would likely increase the

construction-phase costs by approximately $600,000 and therefore increase the total project cost by approximately $810,000.

CONCLUSIONS

The excavation and disposal option is not a viable alternative and cannot be justified because it cannot be shown to be more protective of human health and the environment than placement of a Part 360 cap, leachate collection and the implementation of site controls. Moreover, due to its significantly higher cost, it cannot pass a cost-benefit analysis. We anticipate that NYSDEC will order capping of the 1.06 acre portion of the Riverso site, with institutional site controls, in accordance with the remedial alternative selected in the ROD.

RECOMMENDATIONS

It is recommended that this report be immediately submitted to NYSDEC, with a copy to the Rockland County Solid Waste Management Authority and the property owner. As soon as NYSDEC has reviewed this report, we can look forward to receiving directions on any supplemental field work that may be required, such as updating the wetlands delineations, and to receiving direction for implementation of the final remedy.

Should you have any questions or comments, please contact either Mr. George Desmarais at (631) 756-8000, Extension 1610 or Mr. Christopher J. Flynn at extension 1484.

HOLZMACHER, McLENDON & MURRELL, P.C.

George W. Desmarais, P.E.
Vice President

Christopher J. Flynn
Sr. Project Manager

GWD:CJF/jlp2

Enclosures

cc: Town Board
Amy Mele, Esq. (w/encl)
K. Luke Kalarickal, P.E., P.L.S. (w/encl)
Ralph A. Lauria (w/encl)

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

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H2M PC
CLARKSTOWN LANDFILL RIVERSO PROPERTY SITE INVESTIGATION
SAMPLES RECEIVED: 4/27/09, 4/28/09 & 4/29/09
SDG NO.: PCCSW010

1. NYS DEC SUMMARY FORMS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

SDG: PCCSW010

Customer Sample Code	Laboratory Sample Code	Analytical Requirements				
		GCSEMI	ME	MSSEMI	MSVOA	WC
TP-1	0905085-001	X	X	X	X	X
TP-2	0905085-002	X	X	X	X	X
TP-3	0905125-001	X	X	X	X	X
TP-4	0905125-002	X	X	X	X	X
TP-5	0905125-003	X	X	X	X	X
TP-6	0905125-004	X	X	X	X	X
TP-7	0905125-005	X	X	X	X	X
TP-8	0905184-001	X	X	X	X	X

CLP, Non-CLP (Please indicate year of protocol) ASP B 2000

CG 5/22/09

PCCSW010 S3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

SDG: PCCSW010

Laboratory Samp ID	Client Sample ID	Matrix	Analytical Protocol	Date Collected	DateRecd at Lab	Date Extracted	Date Analyzed	Extraction Method	DF	Level	Aux Cleanup
0905085-001A	TP-1	Leachate	SW1311/8260	27-Apr-09	27-Apr-09	29-Apr-09	04-May-09		1	LOW	
0905085-002A	TP-2	Leachate	SW1311/8260	27-Apr-09	27-Apr-09	29-Apr-09	04-May-09		1	LOW	
0905125-001A	TP-3	Leachate	SW1311/8260	27-Apr-09	28-Apr-09	29-Apr-09	04-May-09		1	LOW	
0905125-002A	TP-4	Leachate	SW1311/8260	28-Apr-09	28-Apr-09	29-Apr-09	04-May-09		1	LOW	
0905125-002AMS	TP-4MS	Leachate	SW1311/8260	28-Apr-09	28-Apr-09	29-Apr-09	04-May-09		1	LOW	
0905125-002AMSD	TP-4MSD	Leachate	SW1311/8260	28-Apr-09	28-Apr-09	29-Apr-09	04-May-09		1	LOW	
0905125-003A	TP-5	Leachate	SW1311/8260	28-Apr-09	28-Apr-09	29-Apr-09	04-May-09		1	LOW	
0905125-004A	TP-6	Leachate	SW1311/8260	28-Apr-09	28-Apr-09	29-Apr-09	04-May-09		1	LOW	
0905125-005A	TP-7	Leachate	SW1311/8260	28-Apr-09	28-Apr-09	29-Apr-09	04-May-09		1	LOW	
0905184-001A	TP-8	Leachate	SW1311/8260	28-Apr-09	29-Apr-09	29-Apr-09	04-May-09		1	LOW	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

SDG: PCCSW010

Laboratory Samp ID	Client Sample ID	Matrix	Analytical Protocol	Date Collected	DateRecd at Lab	Date Extracted	Date Analyzed	Extraction Method	DF	Level	Aux Cleanup
0905085-001B	TP-1	Leachate	APSB 1311	27-Apr-09	28-Apr-09	30-Apr-09	01-May-09	SEPF	1	LOW	
0905085-002B	TP-2	Leachate	APSB 1311	27-Apr-09	28-Apr-09	30-Apr-09	01-May-09	SEPF	1	LOW	
0905125-001B	TP-3	Leachate	APSB 1311	27-Apr-09	28-Apr-09	30-Apr-09	01-May-09	SEPF	1	LOW	
0905125-002B	TP-4	Leachate	APSB 1311	28-Apr-09	28-Apr-09	30-Apr-09	01-May-09	SEPF	1	LOW	
0905125-002BMS	TP-4MS	Leachate	APSB 1311	28-Apr-09	28-Apr-09	30-Apr-09	01-May-09	SEPF	1	LOW	
0905125-002BMSD	TP-4MS	Leachate	APSB 1311	28-Apr-09	28-Apr-09	30-Apr-09	01-May-09	SEPF	1	LOW	
0905125-003B	TP-5	Leachate	APSB 1311	28-Apr-09	28-Apr-09	30-Apr-09	01-May-09	SEPF	1	LOW	
0905125-004B	TP-6	Leachate	APSB 1311	28-Apr-09	28-Apr-09	30-Apr-09	01-May-09	SEPF	1	LOW	
0905125-005B	TP-7	Leachate	APSB 1311	28-Apr-09	28-Apr-09	30-Apr-09	01-May-09	SEPF	1	LOW	
0905184-001B	TP-8	Leachate	APSB 1311	28-Apr-09	29-Apr-09	30-Apr-09	01-May-09	SEPF	1	LOW	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB/HERB
ANALYSES

SDG: PCCSW010

Laboratory Samp ID	Client Sample ID	Matrix	Analytical Protocol	Date Collected	DateRecd at Lab	Date Extracted	Date Analyzed	Extraction Method	DF	Level	Aux Cleanup
0905085-001B	TP-1	Leachate	SW1311/8081	27-Apr-09	27-Apr-09	01-May-09	07-May-09	SEPF	1	LOW	
0905085-002B	TP-2	Leachate	SW1311/8081	27-Apr-09	27-Apr-09	01-May-09	07-May-09	SEPF	1	LOW	
0905125-001B	TP-3	Leachate	SW1311/8081	27-Apr-09	28-Apr-09	01-May-09	07-May-09	SEPF	1	LOW	
0905125-002B	TP-4	Leachate	SW1311/8081	28-Apr-09	28-Apr-09	01-May-09	07-May-09	SEPF	1	LOW	
0905125-002Bms	TP-4MS	Leachate	SW1311/8081	28-Apr-09	28-Apr-09	01-May-09	07-May-09	SEPF	1	LOW	
0905125-002Bmsd	TP-4MSD	Leachate	SW1311/8081	28-Apr-09	28-Apr-09	01-May-09	07-May-09	SEPF	1	LOW	
0905125-003B	TP-5	Leachate	SW1311/8081	28-Apr-09	28-Apr-09	01-May-09	07-May-09	SEPF	1	LOW	
0905125-004B	TP-6	Leachate	SW1311/8081	28-Apr-09	28-Apr-09	01-May-09	07-May-09	SEPF	1	LOW	
0905125-005B	TP-7	Leachate	SW1311/8081	28-Apr-09	28-Apr-09	01-May-09	07-May-09	SEPF	1	LOW	
0905184-001B	TP-8	Leachate	SW1311/8081	28-Apr-09	29-Apr-09	01-May-09	07-May-09	SEPF	1	LOW	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

SDG : PCCSW010

Laboratory Samp ID	Client Sample ID	Matrix	Metals Requested	DateRecd at Lab	Date Analyzed
0905085-001	TP-1	WATER	Ag,AS,Ba,Cd,Cr,HG,Pb,Se,	27-Apr-09	05/09
0905085-002	TP-2	WATER	Ag,AS,Ba,Cd,Cr,HG,Pb,Se,	27-Apr-09	05/09
0905125-001	TP-3	WATER	Ag,AS,Ba,Cd,Cr,HG,Pb,Se,	28-Apr-09	05/09
0905125-002	TP-4	WATER	Ag,AS,Ba,Cd,Cr,HG,Pb,Se,	28-Apr-09	05/09
0905125-002DUP	TP-4D	WATER	Ag,AS,Ba,Cd,Cr,HG,Pb,Se,	28-Apr-09	05/09
0905125-002MS	TP-4S	WATER	Ag,AS,Ba,Cd,Cr,HG,Pb,Se,	28-Apr-09	05/09
0905125-003	TP-5	WATER	Ag,AS,Ba,Cd,Cr,HG,Pb,Se,	28-Apr-09	05/09
0905125-004	TP-6	WATER	Ag,AS,Ba,Cd,Cr,HG,Pb,Se,	28-Apr-09	05/09
0905125-005	TP-7	WATER	Ag,AS,Ba,Cd,Cr,HG,Pb,Se,	28-Apr-09	05/09
0905184-001	TP-8	WATER	Ag,AS,Ba,Cd,Cr,HG,Pb,Se,	29-Apr-09	05/09

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

SDG : PCCSW010

Laboratory Samp ID	Client Sample ID	Matrix	Tests	DateRecd at Lab	Date Analyzed
0905085-001	TP-1	Soil	SELECT WET CHEMISTRY **	04/27/09	04/09 - 05/09
0905085-002	TP-2	Soil	SELECT WET CHEMISTRY **	04/27/09	04/09 - 05/09
0905125-001	TP-3	Soil	SELECT WET CHEMISTRY **	04/28/09	04/09 - 05/09
0905125-002	TP-4	Soil	SELECT WET CHEMISTRY **	04/28/09	04/09 - 05/09
0905125-002DUP	TP-4DUP	Soil	SELECT WET CHEMISTRY **	04/28/09	04/09 - 05/09
0905125-003	TP-5	Soil	SELECT WET CHEMISTRY **	04/28/09	04/09 - 05/09
0905125-004	TP-6	Soil	SELECT WET CHEMISTRY **	04/28/09	04/09 - 05/09
0905125-005	TP-7	Soil	SELECT WET CHEMISTRY **	04/28/09	04/09 - 05/09
0905184-001	TP-8	Soil	SELECT WET CHEMISTRY **	04/29/09	04/09 - 05/09

** Corrosivity PH ; Ignitability ; Reactive Cyanide ; Reactive Sulfide ;

2. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC. 27__6 **EXTERNAL CHAIN OF CUSTODY**

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT:

H2M SDG NO: ACCSW009/010

PROJECT NAME/NUMBER: CLKT 0907 CLARKSTOWN LANDFILL/RIVERSO PROPERTY

SAMPLERS: (signature)/Client

DELIVERABLES: ASP-B

TURNAROUND TIME:

NOTES: Test Pits
X Analyses:
TCL VOCs
TCL SVOCs
TAL metals
PCB/pesticide
TCLP VOA, TCLP SVOC, pesticides, metals, RCRA characteristics

Project Contact:

Phone Number:

PIS/Quote #

Sample Container Description: 8 oz jar | 2 oz jar | 4 oz jar

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	VOA	BNA	Pest/PCB					Metal	CN	LAB I.D. NO. (TOTAL / TCLP)	REMARKS:
4/27/09	10:49	Soil	TP-1	7				1	3	3				0905078 / 0905085-001	Stenites
↓	12:45	Soil	TP-2	7				1	3	3				↓ -009 / ↓ -002	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]			[signature]	4/27/09	12:45
[signature]	4/27/09	15:03	[signature]	4/27/09	16:03

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered ✓ Airbill# ______
2. Ambient or chilled, Temp ______
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

ACCSW009 S10

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

H2M LABS, INC.

PCCSW010

Sample Receipt Checklist

Client Name PCCSW | Date and Time Received: 4/27/2009 3:03:00 PM

Work Order Number 0905085 | Received by dmc

Checklist completed by [signature] Signature 4/28/09 Date | Reviewed by [initials] Initials 4/29/09 Date

Matrix: | Carrier name Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

PCCSW010 S11

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: PCCSW DELIVERABLES: B5-7a TURN AROUND TIME: 21 DAYS

SDG #: PCCSW010 CASE #: _____ MATRIX: Soil pH CHECK Y or (N)

REMARKS: 016 PCCSW 09

RECEIVED BY: DMC SIGNATURE: _____ DATE: 4/27/09 TIME: 15:03

CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1 TP-1	0905085-004	4/27/09	A	1	TCLP VOA
2 ↓ -2	↓ -005A	↓	↓	↓	↓
3					
4					
5					
6					
7					
8					
9					
10					DMC 4/28/09
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

VOLATILE

P 0208

PCCSW010 S12

H2M LABS, INC.

CLIENT: PCCSW

SDG #: PCCSW010

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
4/23/09	1100	SIGN [signature]	SIGN [signature]	A	ANALYSIS	
4/29/09	1000	SIGN [signature]	SIGN [signature]	A	Prep	
4/30/09	1400	SIGN [signature]	SIGN [signature]	VTCLP	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			

VOLATILE

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: PCCSW DELIVERABLES: B5-10 TURN AROUND TIME: 21 DAYS

SDG #: PCCSW010 CASE #: _____ MATRIX: Soil pH CHECK Y or (N)

REMARKS: 016 PCCSW 09

RECEIVED BY: DMC SIGNATURE: [signature] DATE: 4/27/09 TIME: 15:05

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	TP-1	0905085-001A	4/27/09	A	*	TCLP VOA
2	↓	-001B	↓	C	1	TCLP METALS TCLP HG/A, TCLP PEST
3	↓	-001C	↓	B	1	IGN. S
4	TP-2	-002 1,B,C	↓	As Above	As Above	As Above
5						
6						
7						
8						
9						
10						DMC
11						
12						4/28/09
13						
14						
15						
16						
17						
18						
19						
20						

* IN CUSTODY OF MS

SPECIAL PROCESS

P 0067

PCCSW010 S14

■2M LABS, INC.

CLIENT: PCCSW

SDG #: PCCSW010

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
4/28/09	11:05	SIGN [signature]	SIGN [signature]	* B.C	1hrs PREP	
4/30/09	10:[illegible]	SIGN [signature]	SIGN [signature]	MTCLP	Analysis	
5/1/09	12:00	SIGN [signature]	SIGN [signature]	Au © TCLP	Analysis	
5/4/09	12:[illegible]	SIGN [signature]	SIGN [signature]	Au © TCLP	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			

* Bottle type "A" in custody of MS

SPECIAL PROCESS

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: PCCSW DELIVERABLES: B5 7C TURN AROUND TIME: 21 DAYS

SDG #: PCCSW010 CASE #: _____ MATRIX: Soil pH CHECK Y or (N)

REMARKS: 016 PCCSW 09

RECEIVED BY: DMC SIGNATURE: [signature] DATE: 4/21/04 TIME: 15:03

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	TP-1	0905085-001B	4/27/04	C	*	TCLP METALS
2	↓ -2	↓ -002B	↓	↓	↓	↓
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

* IN CUSTODY OF SP

DMC
4/28/04

METALS

P 0031

PCCSW010 S16

H2M LABS, INC.

CLIENT: PCCSW

SDG #: PCCSW010

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
4/28/09		SIGN	SIGN	*	ANALYSIS	
		SIGN [signature]	SIGN [signature]			
4/30/09	1000	SIGN [signature]	SIGN [signature]	EN	Digestion	
4/30/09	1230	SIGN [signature]	SIGN [signature]	EN/Digs	Storage/Analysis	
4/30/09	1100	SIGN [signature]	SIGN [signature]	EN	Hg digs	
4/30/09	1300	SIGN [signature]	SIGN [signature]	EN/Digs	Storage/Analysis	
5/1/09	1100	SIGN [signature]	SIGN [signature]	BCD	Hg Analysis	
5/1/09	1330	SIGN [signature]	SIGN [signature]	BCD	Storage	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			

* IN CUSTODY OF SP

5/12/09 [initials]

METALS

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: PCCSW DELIVERABLES: B5 - 70 TURN AROUND TIME: 21 DAYS

SDG #: PCCSW010 CASE #: _____ MATRIX: Soil pH CHECK Y or (N)

REMARKS: C16 PCCSW 09

RECEIVED BY: DMC SIGNATURE: _____ DATE: 4/27/09 TIME: 15:53

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	TP-1	0905085-0001	4/27/09	B	1	CN REAC-S S-REAC-S, PH-CORR-S
2	↓ -2	↓ 0002	↓	↓	↓	↓
3						
4						
5						
6						
7						
8						
9						
10					DMK 4/28/09	
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

WET CHEMISTRY

PCCSW010 S18

H2M LABS, INC.

CLIENT: PCCSW

SDG #: PCCSW010

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
4/28/09	11:10	SIGN	SIGN	B	ANALYSIS	
4-29-09	9:00	SIGN	SIGN	B	PH CORR/storage	
5/1/09	1000	SIGN	SIGN	B	React	
5/1/09	1300	SIGN	SIGN	B	storage/ANALYSIS	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			

5/2/09

WET CHEMISTRY

PCCSW010 S19

H2M LABS, INC.

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-[illegible]0 Fax: (631) 420-8436

2[illegible]12

EXTERNAL CHAIN OF CUSTODY

CLIENT: PCCSW

H2M SDG NO: PCSW0090610

PROJECT NAME/NUMBER: CLKT 0907: Clarkstown Landfill: Riverso Property

SAMPLERS: (signature)/Client

DELIVERABLES: NYSDEC ASP B

TURNAROUND TIME:

Project Contact: GWD

Phone Number:

PIS/Quote #

NOTES:
* TCL VOCs
TCL SVOCs
TAL metals
pesticides/PCBs
- Ignitability
- corrosivity
- reactivity
TCLP VOCs
TCLP SVOC
TCLP pest/PCBs
TCLP metals

** MS/MSD @ TP-4

Sample Container Description: 4 oz. wide; 2-oz. jars; 4-oz. jars; 8-oz. jars; 1-liter amber; 1 liter HDPE

ANALYSIS REQUESTED

Total No. of Containers

ORGANIC: VOA; BNA; Pest/PCB

INORG.: Metal; CN

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	VOA	BNA	Pest/PCB	2-oz. jars	4-oz. jars	8-oz. jars	1-liter amber	Metal	CN	LAB I.D. NO.	REMARKS:
4/28/09	2:42	soil	TP-3	7				3	3	1				0905122-001A-C / 0901525-001A-D	* See notes for analysis
4/28	7:56	soil	TP-4	25				8	16	1				-002 / -002	** TP-4
4/28	9:10	soil	TP-5	7				3	3	1				-003 / -003	** MS/MSD
4/28	10:41	soil	TP-6	7				3	3	1				-004 / -004	
4/28	12:00	soil	TP-7	8					8					-005 / -005	
4/28		soil	TP-8 CJF 4/28/09												
4/28	1:04	Riverso	Field Blank	6	2						3	1		-006 A-C	VOCs, SVOCs, TAL metals, PCBs, pest
		Riverso	Trip Blank	2	2									-007 A	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/28/09	1:05		4/28/09	1:07 PM
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/28/09	2:07 PM		4/28/09	14:27
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/28/09	14:30		4/28/09	1430
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered ___ Airbill# _____
2. Ambient or chilled. Temp _____
3. Received in good condition: Y or N
4. Properly preserved: Y or N

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

PCCSW010 S20

H2M LABS, INC.

Sample Receipt Checklist PCCSW010

Client Name PCCSW

Date and Time Received: 4/28/2009

Work Order Number 0905125

Received by: EM

Checklist completed by _____ Signature 4/28/09 Date

Reviewed by SA Initials 4/29/09 Date

Matrix: Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

PCCSW010 S21

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: PCCSW DELIVERABLES: B5-70D TURN AROUND TIME: 21 DAYS

SDG #: PCCSW010 CASE #: _____ MATRIX: SOIL pH CHECK Y or N

REMARKS: Quote # 1462

** TWO 2-OZ. JARS
ONE 4-OZ JAR **

RECEIVED BY: E.M SIGNATURE: [signature] DATE: 4/28/09 TIME: 1427

CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
TP-3	0905125-005A	04.27.09	A	1	TCLP VOA
4	-002A	04.28.09	A,B**	3	* MS/MSD
5	-003A		A	1	
6	-004A		↓		
7	-005A		B		

E.M 04.28.09

VOLATILE

P 0217

PCCSW010 S22

H2M LABS, INC.

CLIENT: PCCSW

SDG #: PCCSW010

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
4/28/09	1310	SIGN [signature]	SIGN [signature]	A, B	Analysis	
4/29/09	1000	SIGN [signature]	SIGN [signature]	A/B	A Prep	
4/30/09	1400	SIGN [signature]	SIGN [signature]	All VOA	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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VOLATILE

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: PCCSW DELIVERABLES: B5-2010 TURN AROUND TIME: 21 DAYS

SDG #: PCCSW010 CASE #: _____ MATRIX: SOIL pH CHECK Y or N

REMARKS: Quote # 1462

RECEIVED BY: EM SIGNATURE: [signature] DATE: 4/28/04 TIME: 1427

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED	
1	TP-3	0405125A, -001B	04.27.04	C	1	TCLP SVOA TCLP Metals TCLP TEST TCLP VOA	@EM 4/28/04
2	↓	-001C	04.28.04	B	1	IGN-S	
3	4	-002 A, B, C		C, B, B @EM 4/28/04	7, 3	As Above	+MS/MSD
4	5	-003		C, B	1, 1	↓	
5	6	-004		↓	↓		
6	7	-005	↓	B	2, 1	↓	
7				@EM 4/28/04			
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

EM 04.28.04

SPECIAL PROCESS

H2M LABS, INC.

CLIENT: PCCSW

SDG #: PCCSW010

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
4/28/09	1830	SIGN [signature]	SIGN Gracey Daniel	C, B	Prep	
4/29/09	9:00	SIGN Gracey Daniel	SIGN [signature]	C (GNS)	Prep	
4/30/09	10:00	SIGN [signature]	SIGN [signature]	MTCUP	Analysis	
5/1/09	12:00	SIGN [signature]	SIGN [signature]	STCUP	Analysis	
5/4/09	12:00	SIGN [signature]	SIGN [signature]	MTCUP	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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SPECIAL PROCESS

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: PCCSW DELIVERABLES: BS-70D TURN AROUND TIME: 21 DAYS

SDG #: PCCSW010 CASE #: MATRIX: SOIL pH CHECK Y or N

REMARKS: Quote #1462 Y in custody of SF 7

RECEIVED BY: EM SIGNATURE: [signature] DATE: 4/28/09 TIME: 1427

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	TP-3	0905125 -001 B	04.27.09	C	*	TCLP metals
2	-4	-002 B	04.28.09	C, B		
3	-5	-003 B		C		
4	-6	-004 B				
5	-7	-005 B		B		
6						
7						
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18						
19						
20						

ms/msd

EM 04.28.09

METALS

H2M LABS, INC.

CLIENT: PCCSW

SDG #: PCCSW010

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
4/30/09	15:00	SIGN [signature]	SIGN [signature]	EN	STORAGE	
4/30/09	1000	SIGN [signature]	SIGN [signature]	EN	Digestion	
4/30/09	1230	SIGN [signature]	SIGN [signature]	EN/Digs	Storage/Analysis	
4/30/09	1100	SIGN [signature]	SIGN [signature]	EN	Hg digs	
4/30/09	1300	SIGN [signature]	SIGN [signature]	EN/Digs	Storage/Analysis	
5/1/09	1100	SIGN [signature]	SIGN [signature]	BCD	Hg Analysis	
5/1/09	1330	SIGN [signature]	SIGN [signature]	BCD	Storage	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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5/12/09

METALS

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: PCCSW DELIVERABLES: 35-70D TURN AROUND TIME: 21 DAYS

SDG #: PCCSW010 CASE #: _____ MATRIX: SOIL pH CHECK Y or N

REMARKS: _____

RECEIVED BY: EM SIGNATURE: [signature] DATE: 4/28/04 TIME: 1427

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	TP-3	04.0512F -001D	04.27.04	B	1	CN-REAL-S S-REAL-S, PH-CORR-S
2	TP-4	-002 D	4.27.04	|	3	| * MS/MSD *
3	-5	-003 D	|	|	1	|
4	-6	-004 D	|	|	|	|
5	-7	-005 D	↓	✓	↓	↓
6						
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20						

EM D4.28.04

WET CHEMISTRY

PCCSW010 S28

P 0061

H2M LABS, INC.

CLIENT: PCCSW

SDG #: PCCSW010

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
4/28/09	1835	SIGN [signature]	SIGN Walk-in Fridge Em 4/28/09	B	Storage	
4-29-09	9:00	SIGN [signature]	SIGN [signature]	B	PH [illegible]/Storage	
5/1/09	1000	SIGN [signature]	SIGN [signature]	B	React	
6/1/09	1300	SIGN [signature]	SIGN [signature]	B	storage/analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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5/20/09 [initials]

WET CHEMISTRY

PCCSW010 S29

H2M LABS, INC.

27[illegible]54

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (631) 694-3040 Fax: (631) 420-8436

CLIENT:

H2M SDG NO: PCCSW009/110

PROJECT NAME/NUMBER: CLKT 09-07: Clarkstown Landfill Rivers Property Site investigation

SAMPLERS: (signature)/Client: [signature] LJF

DELIVERABLES: NYSDEC ASP B

TURNAROUND TIME:

NOTES:
- * TCL VOCs
- TCL SVOCs
- TAL metals
- PCBs/pesticides
- Ignitability
- corrosivity
- reactivity
- TCLP VOCs
- TCLP SVOCs
- TCLP pest/PCBs
- ~~TAL metals~~ (LJF) TCLP metals

Project Contact:

Phone Number:

PIS/Quote #

ANALYSIS REQUESTED

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers (Sample Container Description →)	ORGANIC: VOA	BNA	Pest/PCB	40ml Vials	4oz Jars			INORG.: Metal	CN	LAB I.D. NO. (TOTAL / TCLP)	REMARKS:
4/28/09	2:08	Soil	TP-8	8					8					0905[illegible]183 / 0905184-001	* See notes.
														(initials, 4/28)	
4/28/09		Aqueous	Trip Blank	2				2							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	4/29/09	1035	[signature]	4/29/09	1035
[signature]	4/29/09	1035	[signature]	4/29/09	10:35

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped ___ or Hand Delivered ✓ Airbill# ___
2. Ambient or (Chilled) Temp 4.9
3. Received in good condition: (Y) or N
4. Properly preserved: (Y) or N

COC Tape was:
1. Present on outer package: Y or (N)
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: (Y) or N

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

H2M LABS, INC.

PCCSW010

Sample Receipt Checklist

Client Name PCCSW

Date and Time Received: 4/29/2009

Work Order Number 0905184

Received by dmc

Checklist completed by _____ 4/29/09
Signature Date

Reviewed by _____ 5/1/09
Initials Date

Matrix: Carrier name Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Applicable ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Applicable ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

PCCSW010 S31

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: PCCSW DELIVERABLES: B5-70 TURN AROUND TIME: 21 DAYS

SDG #: PCCSW010 CASE #: _____ MATRIX: Soil pH CHECK Y or (N)

REMARKS: 016 PCCSW 09

RECEIVED BY: DMC SIGNATURE: [signature] DATE: 4/29/09 TIME: 10:35

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	TP-8	0905184-001A	4/28/09	B	1	TCLP VOA
2						
3						
4						
5						
6						
7						
8						
9						
10					DMC	
11					4/29/09	
12						
13						
14						
15						
16						
17						
18						
19						
20						

VOLATILE

P 0232

PCCSW010 S32

H2M LABS, INC.

CLIENT: PCCSW

SDG #: PCCSW010

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
4/29/09	19:25	SIGN [signature]	SIGN MS CLP FRIDGE	B	STORAGE	
4/29/09	19:30	SIGN MS CLP FRIDGE	SIGN [signature]	VTCLP	Prep	
4/30/09	1400	SIGN [signature]	SIGN [signature]	VTCLP	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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VOLATILE

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: PCCSW DELIVERABLES: B5-70 TURN AROUND TIME: 21 DAYS

SDG #: PCCSW010 CASE #: _____ MATRIX: Soil pH CHECK Y or N

REMARKS: 016 PCCSW 09

RECEIVED BY: DMC SIGNATURE: [signature] DATE: 4/29/09 TIME: 10:55

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	TP-8	0905184-001A	4/28/09	B	*	TCLP VOA
2	↓	-001B	↓	↓	2	TCLP METALS TCLP BNA, TCLP PEST
3	↓	-001C	↓	↓	1	IGN-S
4						
5						
6						
7						
8						
9						
10						
11						DMC
12						4/29/09
13						
14						
15						
16						
17						
18						
19						
20						

* IN CUSTODY OF M.S

SPECIAL PROCESS

P 0094

PCCSW010 S34

H2M LABS, INC.

CLIENT: PCCSW

SDG #: PCCSW010

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
4/29/09	19:30	SIGN [signature]	SIGN WALK IN FRIDGE - SP	B *	STORAGE	
4/30/09	9:30	SIGN	SIGN [signature]	B *	Prep	4/29/09
4/29/09	19:5	SIGN [signature] 4/29 WALK IN FRIDGE	SIGN [signature]	IGN. S B. *	Prep	
4/30/09	10:0	SIGN [signature]	SIGN [signature]	MTCLP	Analysis	
5/1/09	12:00	SIGN [signature]	SIGN [signature]	All STCLP	Analysis	
5/4/09	12:00	SIGN [signature]	SIGN [signature]	ALL STCLP	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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* BOTTLE FOR TCLP VOA IN CUSTODY OF MS

5/12/09

SPECIAL PROCESS

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: PCCSW DELIVERABLES: B5-70 TURN AROUND TIME: 21 DAYS

SDG #: PCCSW010 CASE #: _____ MATRIX: Soil pH CHECK Y or (N)

REMARKS: 016 PCC-SW 09

RECEIVED BY: DMC SIGNATURE: [signature] DATE: 4/29/09 TIME: 10:35

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	TP-8	0905184-001B	4/28/09	B	*	TCLP METALS
2						
3						
4						
5						
6						
7						
8					DMC 4/29/09	
9						
10						
11						
12						
13						
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19						
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* IN CUSTODY OF SP

METALS

P 0055

PCCSW010 S36

H2M LABS, INC.

CLIENT: PCCSW

SDG #: PCCSW010

INTERNAL CHAIN OF CUSTODY

* IN CUSTODY OF SP

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
4/29/09	19:30	SIGN	SIGN	*	STORAGE	
4/30/09		SIGN [signature]	SIGN [signature]			
4/30/09	1000	SIGN [signature]	SIGN [signature]	B	Digestion	
4/30/09	1130	SIGN [signature]	SIGN [signature]	B/Mys	Storage/Analysis	
4/30/09	1100	SIGN [signature]	SIGN [signature]	B	Hg digs	
4/30/09	1300	SIGN [signature]	SIGN [signature]	B/BCD	Storage/Analysis	
5/1/09	1100	SIGN [signature]	SIGN [signature]	BCD	Hg Analysis	
5/1/09	1330	SIGN [signature]	SIGN [signature]	BCD	Storage	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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5/12/09

METALS

PCCSW010 S37

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: PCCSW DELIVERABLES: B3-70 TURN AROUND TIME: 21 DAYS

SDG #: PCCSW010 CASE #: _____ MATRIX: Soil pH CHECK Y or (N)

REMARKS: 016 PCCSW 09

RECEIVED BY: DMC SIGNATURE: [signature] DATE: 4/29/09 TIME: 10:35

	CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1	TP-8	0905184-001D	4/26/09	B	1	CN-REAC-S S-REAC-S, PH-CORR-S
2						
3						
4						
5						
6						
7						
8						
9						
10						DMC
11						4/29/09
12						
13						
14						
15						
16						
17						
18						
19						
20						

WET CHEMISTRY

PCCSW010 S38

H2M LABS, INC.

CLIENT: PCCSW

SDG #: PCCSW010

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
4/20/09	19:30	SIGN [signature]	SIGN WALK IN FRIDGE-WC	B	STORAGE	
4-30-09	9:00	SIGN [signature]	SIGN [signature]	B	PHCOLOR/Storage	
5/1/09	10:00	SIGN [signature]	SIGN [signature]	B	REACT	
5/1/09	13:00	SIGN [signature]	SIGN [signature]	B	Storage/Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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5/21/09

WET CHEMISTRY

3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR TCLP VOLATILE ANALYSES
SAMPLE RECEIVED: 4/27/09, 4/28/09 & 4/29/09
SDG#: PCCSW010

For Sample(s):

TP-1	TP-5
TP-2	TP-6
TP-3	TP-7
TP-4	TP-8

The above sample(s) was/were leached via ZHE method 1311 and analyzed for a select list of volatile organic analytes by EPA method 8260B in accordance with the NYSDEC ASP, Rev. 10/95.

All QC data and calibrations met the requirements of the method. The following should be noted:

Sample TP-4 was analyzed as the matrix spike/matrix spike duplicate.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: May 18, 2009

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Joann M. Slavin
Senior Vice President

H2M LABS, INC.

SDG NARRATIVE FOR TCLP SEMIVOLATILE ANALYSES
SAMPLE(S) RECEIVED: 4/27/09, 4/28/09 & 4/29/09
SDG #: PCCSW010

For Sample(s):

TP-1	TP-5
TP-2	TP-6
TP-3	TP-7
TP-4	TP-8

The above sample(s) was/were leached using EPA TCLP method 1311 and analyzed for the TCLP list of semivolatile organic analytes by EPA method 8270C. Data are reported according to the requirements of the NYSDECASP 2005 category B deliverables.

All QC data and calibrations met the requirements of the method, and no problems were encountered with sample analysis. The following should be noted:

Sample TP-4 was analyzed as the matrix spike sample. All percent recoveries except for a 9% recovery for pentachlorophenol in the matrix spike were within QC limits. 2-methylphenol, 3/4-methylphenol, 2,4,5-trichlorophenol and pentachlorophenol had high RPD's. Sample TP-4 MS had a low internal standard area count for d12 perylene.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: May 12, 2009

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Joann M. Slavin
Senior Vice President

H2M LABS, INC.

SDG NARRATIVE FOR TCLP PESTICIDES ANALYSES
SAMPLES RECEIVED: 4/27/09, 4/28/09 & 4/29/09
SDG #: PCCSW010

For Samples:

TP-1	TP-5
TP-2	TP-6
TP-3	TP-7
TP-4	TP-8

The above samples were leached according to EPA method 1311 and analyzed for TCLP pesticides by EPA method 8081A.

All QC data and calibrations met the requirements of the method unless discussed below. The following should be noted:

Sample TP-4 was analyzed as matrix spike (MS)/matrix spike duplicate (MSD). Heptachlor and gamma chlordane had a slightly high recovery in the matrix spike duplicate.

A lab fortified blank was analyzed and indicates good method efficiency.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: May 19, 2009

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Joann M. Slavin
Senior Vice President

H2M LABS, INC.

SDG NARRATIVE FOR TCLP METALS
SAMPLE(S) RECEIVED: 4/27/09, 4/28/09 & 4/29/09
SDG #: PCCSW010

For Sample(s):

TP-1	TP-5
TP-2	TP-6
TP-3	TP-7
TP-4	TP-8

Sample(s) was/were received by H2M Labs, for TCLP metals analysis.

Samples were prepared using EPA method 1311 and analyzed using EPA methods 6010B with a TJA 61E Trace ICP instrument and 7470A with a Leeman HYDRA mercury analyzer.

Sample TP-4 was utilized for QC analysis and reporting.

No problems were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: May 12, 2009

Vincent Stancampiano
Vice President

H2M LABS, INC.

SDG NARRATIVE FOR WET CHEMISTRY
SAMPLE(S) RECEIVED: 4/27/09, 4/28/09 & 4/29/09
SDG #: PCCSW010

For Sample(s):

TP-1	TP-5
TP-2	TP-6
TP-3	TP-7
TP-4	TP-8

Sample(s) was/were received by H2M Labs, Inc. for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

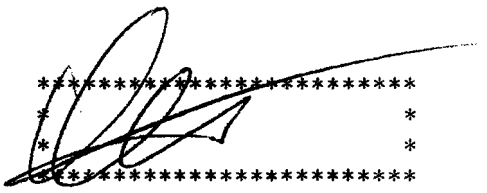
Reactive Cyanide	EPA SW846 7.3.3.2
Ignitability	EPA SW846 1010
Corrosivity pH	EPA SW846 9045
Reactive Sulfide	EPA SW846 7.3.4.2

Samples utilized for QC analysis were listed on the QC summary report.

No problems were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: May 21, 2009



Vincent Stancampiano
Vice President

4. SAMPLE REPORTS

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(300\ U)}{D} \times df \text{ where } D = \frac{100\% moisture}{100}$$

and df - dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(300\ U)}{.76} \times 10 = 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported of Form I with a "P".

C - This flag applies to pesticide results when the identification has been confirmed by GC/MS.. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identified compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration ranges in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g. a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceed 200 ug/L or the peak representing the two coeluting isomers on that GC column exceed 400 ug/L. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceed 400 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - This flag indicates suspected column bleed.

Y - This flag denotes concentration of tentatively identified compounds (TICs) to be biased low due to matrix interference with internal standard.

Z - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, used the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

H2M LABS, INC.

QUALIFIERS FOR METALS ANALYSIS

Q (Quality Control) Qualifiers

E - The reported value is estimated because of the presence of interference. An explanatory note is included in the SDG narrative.

M - Duplicate injection precision not met.

N - Matrix spike sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

+ - Correlation coefficient for the MSA is less than 0.995

W - Post digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis is not within control limits.

C (Concentration) Qualifiers

B - Entered if the reported value is less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL).

U - Entered if the analyte was analyzed for but not detected, i.e., less than the IDL.

M (Method) Qualifiers

P - Analyzed by ICP.
M - Analyzed by ICP-MS
A - Analyzed by Flame AA.
F - Analyzed by Furnace AA.
CV - Analyzed by Manual Cold Vapor techniques.
AV - Analyzed by Automated Cold Vapor techniques.
C - Analyzed by Manual Spectrophotometric Method.
CA- Analyzed by Midi-distillation Spectrophotometric Method.
NR - Analyte not Required.

CODES FOR MANUAL CORRECTIONS

T: Transcription error.

CE: Calculation error

CC: Changed per client request

SC: Sample cancelled

LB: Wrong spot in logbook

The following codes are specific to chromatography:

GC / IC:

MS (Match standard): The integration of the continuous calibration or the sample was different from that used for the initial calibration, e.g. more or less of the tail was included.

BL (Baseline): Incorrect integration due to changing baseline (rise or fall).

NP (Negative peak): Due to a negative displacement in the baseline, wrong areas were integrated, which usually are too high.

FP (Fused peak): A contamination is not resolved from the peak that is eluting in the retention time window and is included in the area. Areas are allocated for the two (or more) unresolved peaks in the manual integration.

WB (Wrong basepoint): The start or finish of the peak ("basepoint") was put too high or too low, and the basepoint is corrected to match to projected baseline.

R (Rider): The peak is riding on a larger contamination, and is reintegrated as a rider.

GC-MS:

MP: Missed peak

MIP: Misintegrated peak

WI: Wrong isomer

TI: Total of isomers

H2M LABS, INC.

4.1 TCLP VOLATILES

PCCSW010 S51

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905085-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A64704.D

Level: (low/med) LOW Date Received: 4/27/2009

% Moisture: not dec. Date ~~Extracted~~ leached: 4/29/2009 gms 5/18/09

GC Column: ZB-624 ID: .18 (mm) Date Analyzed: 5/4/2009

Extract Volume: (µl) Dilution Factor: 1.00

Injection Volume: (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
75-01-4	Vinyl chloride	0.01	U
75-35-4	1,1-Dichloroethene	0.01	U
78-93-3	2-Butanone	0.01	U
67-66-3	Chloroform	0.01	U
107-06-2	1,2-Dichloroethane	0.01	U
56-23-5	Carbon tetrachloride	0.01	U
71-43-2	Benzene	0.01	U
79-01-6	Trichloroethene	0.01	U
127-18-4	Tetrachloroethene	0.01	U
108-90-7	Chlorobenzene	0.01	U

Form 1

CLIENT SAMPLE NO.

TP-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905085-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A64705.D

Level: (low/med) LOW Date Received: 4/27/2009

% Moisture: not dec. Date ~~Extracted~~ leached: 4/29/2009 JMS 5/18/09

GC Column: ZB-624 ID: .18 (mm) Date Analyzed: 5/4/2009

Extract Volume: (µl) Dilution Factor: 1.00

Injection Volume: (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
75-01-4	Vinyl chloride	0.017	
75-35-4	1,1-Dichloroethene	0.01	U
78-93-3	2-Butanone	0.01	U
67-66-3	Chloroform	0.01	U
107-06-2	1,2-Dichloroethane	0.01	U
56-23-5	Carbon tetrachloride	0.01	U
71-43-2	Benzene	0.01	U
79-01-6	Trichloroethene	0.01	U
127-18-4	Tetrachloroethene	0.01	U
108-90-7	Chlorobenzene	0.01	U

Form 1

CLIENT SAMPLE NO.

TP-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905125-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A64706.D

Level: (low/med) LOW Date Received: 4/28/2009

% Moisture: not dec. Date ~~Extracted~~ leached: 4/29/2009 JMS 5/18/09

GC Column: ZB-624 ID: .18 (mm) Date Analyzed: 5/4/2009

Extract Volume: (µl) Dilution Factor: 1.00

Injection Volume: (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
75-01-4	Vinyl chloride	0.01	U
75-35-4	1,1-Dichloroethene	0.01	U
78-93-3	2-Butanone	0.01	U
67-66-3	Chloroform	0.01	U
107-06-2	1,2-Dichloroethane	0.01	U
56-23-5	Carbon tetrachloride	0.01	U
71-43-2	Benzene	0.01	U
79-01-6	Trichloroethene	0.01	U
127-18-4	Tetrachloroethene	0.01	U
108-90-7	Chlorobenzene	0.01	U

Form 1

CLIENT SAMPLE NO.

TP-4

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905125-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A64707.D

Level: (low/med) LOW Date Received: 4/28/2009

% Moisture: not dec. Date ~~Extracted~~ leached: 4/29/2009 JMS 5/18/09

GC Column: ZB-624 ID: .18 (mm) Date Analyzed: 5/4/2009

Extract Volume: (µl) Dilution Factor: 1.00

Injection Volume: (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
75-01-4	Vinyl chloride	0.01	U
75-35-4	1,1-Dichloroethene	0.01	U
78-93-3	2-Butanone	0.01	U
67-66-3	Chloroform	0.01	U
107-06-2	1,2-Dichloroethane	0.01	U
56-23-5	Carbon tetrachloride	0.01	U
71-43-2	Benzene	0.01	U
79-01-6	Trichloroethene	0.01	U
127-18-4	Tetrachloroethene	0.01	U
108-90-7	Chlorobenzene	0.01	U

Form 1

CLIENT SAMPLE NO.

TP-5

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905125-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A64710.D

Level: (low/med) LOW Date Received: 4/28/2009

% Moisture: not dec. Date ~~Extracted~~ leached: 4/29/2009 5/18/09 JMS

GC Column: ZB-624 ID: .18 (mm) Date Analyzed: 5/4/2009

Extract Volume: (µl) Dilution Factor: 1.00

Injection Volume: (µl)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) mg/L	Q
75-01-4	Vinyl chloride	0.01	U
75-35-4	1,1-Dichloroethene	0.01	U
78-93-3	2-Butanone	0.01	U
67-66-3	Chloroform	0.01	U
107-06-2	1,2-Dichloroethane	0.01	U
56-23-5	Carbon tetrachloride	0.01	U
71-43-2	Benzene	0.01	U
79-01-6	Trichloroethene	0.01	U
127-18-4	Tetrachloroethene	0.01	U
108-90-7	Chlorobenzene	0.01	U

PCCSW010 S56

Form 1

CLIENT SAMPLE NO.

TP-6

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905125-004A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A64711.D

Level: (low/med) LOW Date Received: 4/28/2009

% Moisture: not dec. Date ~~Extracted~~ leached: 4/29/2009 JMS 5/18/09

GC Column: ZB-624 ID: .18 (mm) Date Analyzed: 5/4/2009

Extract Volume: (µl) Dilution Factor: 1.00

Injection Volume: (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
75-01-4	Vinyl chloride	0.01	U
75-35-4	1,1-Dichloroethene	0.01	U
78-93-3	2-Butanone	0.01	U
67-66-3	Chloroform	0.01	U
107-06-2	1,2-Dichloroethane	0.01	U
56-23-5	Carbon tetrachloride	0.01	U
71-43-2	Benzene	0.01	U
79-01-6	Trichloroethene	0.01	U
127-18-4	Tetrachloroethene	0.01	U
108-90-7	Chlorobenzene	0.001	J

Form 1 CLIENT SAMPLE NO.

TP-7

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905125-005A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A64712.D

Level: (low/med) LOW Date Received: 4/28/2009

% Moisture: not dec. Date ~~Extracted~~ leached: ~~4/28/2009~~ 4/29/09 gms 5/18/09

GC Column: ZB-624 ID: .18 (mm) Date Analyzed: 5/4/2009

Extract Volume: (µl) Dilution Factor: 1.00

Injection Volume: (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
75-01-4	Vinyl chloride	0.01	U
75-35-4	1,1-Dichloroethene	0.01	U
78-93-3	2-Butanone	0.005	J
67-66-3	Chloroform	0.01	U
107-06-2	1,2-Dichloroethane	0.01	U
56-23-5	Carbon tetrachloride	0.01	U
71-43-2	Benzene	0.01	U
79-01-6	Trichloroethene	0.01	U
127-18-4	Tetrachloroethene	0.01	U
108-90-7	Chlorobenzene	0.01	U

PCCSW010 S58

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905184-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A64713.D

Level: (low/med) LOW Date Received: 4/29/2009

% Moisture: not dec. Date ~~Extracted~~ leached: 4/29/2009 JMS 5/18/09

GC Column: ZB-624 ID: .18 (mm) Date Analyzed: 5/4/2009

Extract Volume: (µl) Dilution Factor: 1.00

Injection Volume: (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
75-01-4	Vinyl chloride	0.01	U
75-35-4	1,1-Dichloroethene	0.01	U
78-93-3	2-Butanone	0.01	U
67-66-3	Chloroform	0.01	U
107-06-2	1,2-Dichloroethane	0.01	U
56-23-5	Carbon tetrachloride	0.01	U
71-43-2	Benzene	0.01	U
79-01-6	Trichloroethene	0.01	U
127-18-4	Tetrachloroethene	0.01	U
108-90-7	Chlorobenzene	0.01	U

PCCSW010 S59

H2M LABS, INC.

4.2 TCLP SEMIVOLATILES

PCCSW010 S60

Form 1

CLIENT SAMPLE NO.

TP-1

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905085-001B

Sample wt/vol: 500 (g/mL) ML Lab File ID: A\C46684.D

Level: (low/med) LOW Date Received: 4/28/09

% Moisture: not dec. Date Extracted: 4/30/09

GC Column: R-5SILMS ID: .25 (mm) Date Analyzed: 5/1/09

Extract Volume: 500 (µl) Dilution Factor: 1.00

Injection Volume: 2 (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
12-03-3	3-Methylphenol/4-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.03	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.03	U

Form 1 CLIENT SAMPLE NO.

TP-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905085-002B

Sample wt/vol: 500 (g/mL) ML Lab File ID: A\C46685.D

Level: (low/med) LOW Date Received: 4/28/09

% Moisture: not dec. Date Extracted: 4/30/09

GC Column: R-5SILMS ID: .25 (mm) Date Analyzed: 5/1/09

Extract Volume: 500 (µl) Dilution Factor: 1.00

Injection Volume: 2 (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
12-03-3	3-Methylphenol/4-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.03	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.03	U

Form 1

CLIENT SAMPLE NO.

TP-3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905125-001B

Sample wt/vol: 500 (g/mL) ML Lab File ID: A\C46686.D

Level: (low/med) LOW Date Received: 4/28/09

% Moisture: not dec. Date Extracted: 4/30/09

GC Column: R-5SILMS ID: .25 (mm) Date Analyzed: 5/1/09

Extract Volume: 500 (µl) Dilution Factor: 1.00

Injection Volume: 2 (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
12-03-3	3-Methylphenol/4-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.03	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.03	U

CLIENT SAMPLE NO.

TP-4

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905125-002B

Sample wt/vol: 500 (g/mL) ML Lab File ID: A\C46687.D

Level: (low/med) LOW Date Received: 4/28/09

% Moisture: not dec. Date Extracted: 4/30/09

GC Column: R-5SILMS ID: .25 (mm) Date Analyzed: 5/1/09

Extract Volume: 500 (µl) Dilution Factor: 1.00

Injection Volume: 2 (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
12-03-3	3-Methylphenol/4-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.03	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.03	U

PCCSW010 S64

Form 1 CLIENT SAMPLE NO.

TP-5

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905125-003B

Sample wt/vol: 500 (g/mL) ML Lab File ID: A\C46690.D

Level: (low/med) LOW Date Received: 4/28/09

% Moisture: not dec. Date Extracted: 4/30/09

GC Column: R-5SILMS ID: .25 (mm) Date Analyzed: 5/1/09

Extract Volume: 500 (µl) Dilution Factor: 1.00

Injection Volume: 2 (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
12-03-3	3-Methylphenol/4-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.03	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.03	U

PCCSW010 S65

TP-6

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905125-004B

Sample wt/vol: 500 (g/mL) ML Lab File ID: A\C46691.D

Level: (low/med) LOW Date Received: 4/28/09

% Moisture: not dec. Date Extracted: 4/30/09

GC Column: R-5SILMS ID: .25 (mm) Date Analyzed: 5/1/09

Extract Volume: 500 (µl) Dilution Factor: 1.00

Injection Volume: 2 (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
12-03-3	3-Methylphenol/4-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.03	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.03	U

CLIENT SAMPLE NO.

TP-7

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905125-005B

Sample wt/vol: 500 (g/mL) ML Lab File ID: A\C46692.D

Level: (low/med) LOW Date Received: 4/28/09

% Moisture: not dec. Date Extracted: 4/30/09

GC Column: R-5SILMS ID: .25 (mm) Date Analyzed: 5/1/09

Extract Volume: 500 (µl) Dilution Factor: 1.00

Injection Volume: 2 (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
12-03-3	3-Methylphenol/4-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.03	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.03	U

PCCSW010 S67

CLIENT SAMPLE NO.

TP-8

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: 0905184-001B

Sample wt/vol: 500 (g/mL) ML Lab File ID: A\C46693.D

Level: (low/med) LOW Date Received: 4/29/09

% Moisture: not dec. Date Extracted: 4/30/09

GC Column: R-5SILMS ID: .25 (mm) Date Analyzed: 5/1/09

Extract Volume: 500 (µl) Dilution Factor: 1.00

Injection Volume: 2 (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
12-03-3	3-Methylphenol/4-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.03	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.03	U

PCCSW010 S68

H2M LABS, INC.

4.3 TCLP PESTICIDES

PCCSW010 S69

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-1

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) WATER Lab Sample ID: 0905085-001B

Sample wt/vol: 500 (g/mL) ML Lab File ID: a00124.raw

% Moisture: Decanted: (Y/N) N Date Received: 04/27/09

Extraction: (Type) SEPF Date Extracted: 05/01/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/07/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
58-89-9	gamma-BHC	0.00020	U
76-44-8	Heptachlor	0.00020	U
1024-57-3	Heptachlor epoxide	0.00020	U
72-20-8	Endrin	0.00040	U
72-43-5	Methoxychlor	0.0020	U
8001-35-2	Toxaphene	0.020	U
57-74-9	Chlordane	0.0040	U
5103-71-9	alpha-Chlordane	0.00020	U
5103-74-2	gamma-Chlordane	0.00020	U

1E

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

TP-2

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) WATER Lab Sample ID: 0905085-002B

Sample wt/vol: 500 (g/mL) ML Lab File ID: a00125.raw

% Moisture: Decanted: (Y/N) N Date Received: 04/27/09

Extraction: (Type) SEPF Date Extracted: 05/01/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/07/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
58-89-9	gamma-BHC	0.00020	U
76-44-8	Heptachlor	0.00020	U
1024-57-3	Heptachlor epoxide	0.00020	U
72-20-8	Endrin	0.00040	U
72-43-5	Methoxychlor	0.0020	U
8001-35-2	Toxaphene	0.020	U
57-74-9	Chlordane	0.0040	U
5103-71-9	alpha-Chlordane	0.00020	U
5103-74-2	gamma-Chlordane	0.00020	U

EPA SAMPLE NO.

TP-3

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) WATER Lab Sample ID: 0905125-001B

Sample wt/vol: 500 (g/mL) ML Lab File ID: a00126.raw

% Moisture: Decanted: (Y/N) N Date Received: 04/28/09

Extraction: (Type) SEPF Date Extracted: 05/01/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/07/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
58-89-9	gamma-BHC	0.00020	U
76-44-8	Heptachlor	0.00020	U
1024-57-3	Heptachlor epoxide	0.00020	U
72-20-8	Endrin	0.00040	U
72-43-5	Methoxychlor	0.0020	U
8001-35-2	Toxaphene	0.020	U
57-74-9	Chlordane	0.0040	U
5103-71-9	alpha-Chlordane	0.00020	U
5103-74-2	gamma-Chlordane	0.00020	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-4

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) WATER Lab Sample ID: 0905125-002B

Sample wt/vol: 500 (g/mL) ML Lab File ID: a00127.raw

% Moisture: Decanted: (Y/N) N Date Received: 04/28/09

Extraction: (Type) SEPF Date Extracted: 05/01/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/07/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
58-89-9	gamma-BHC	0.00020	U
76-44-8	Heptachlor	0.00020	U
1024-57-3	Heptachlor epoxide	0.00020	U
72-20-8	Endrin	0.00040	U
72-43-5	Methoxychlor	0.0020	U
8001-35-2	Toxaphene	0.020	U
57-74-9	Chlordane	0.0040	U
5103-71-9	alpha-Chlordane	0.00020	U
5103-74-2	gamma-Chlordane	0.00020	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-5

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) WATER Lab Sample ID: 0905125-003B

Sample wt/vol: 500 (g/mL) ML Lab File ID: a00130.raw

% Moisture: Decanted: (Y/N) N Date Received: 04/28/09

Extraction: (Type) SEPF Date Extracted: 05/01/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/07/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
58-89-9	gamma-BHC	0.00020	U
76-44-8	Heptachlor	0.00020	U
1024-57-3	Heptachlor epoxide	0.00020	U
72-20-8	Endrin	0.00040	U
72-43-5	Methoxychlor	0.0020	U
8001-35-2	Toxaphene	0.020	U
57-74-9	Chlordane	0.0040	U
5103-71-9	alpha-Chlordane	0.00020	U
5103-74-2	gamma-Chlordane	0.00020	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-6

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) WATER Lab Sample ID: 0905125-004B

Sample wt/vol: 500 (g/mL) ML Lab File ID: a00131.raw

% Moisture: Decanted: (Y/N) N Date Received: 04/28/09

Extraction: (Type) SEPF Date Extracted: 05/01/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/07/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
58-89-9	gamma-BHC	0.00020	U
76-44-8	Heptachlor	0.00020	U
1024-57-3	Heptachlor epoxide	0.00020	U
72-20-8	Endrin	0.00040	U
72-43-5	Methoxychlor	0.0020	U
8001-35-2	Toxaphene	0.020	U
57-74-9	Chlordane	0.0040	U
5103-71-9	alpha-Chlordane	0.00020	U
5103-74-2	gamma-Chlordane	0.00020	U

1E

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

TP-7

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) WATER Lab Sample ID: 0905125-005B

Sample wt/vol: 500 (g/mL) ML Lab File ID: a00132.raw

% Moisture: Decanted: (Y/N) N Date Received: 04/28/09

Extraction: (Type) SEPF Date Extracted: 05/01/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/07/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
58-89-9	gamma-BHC	0.00020	U
76-44-8	Heptachlor	0.00020	U
1024-57-3	Heptachlor epoxide	0.00020	U
72-20-8	Endrin	0.00040	U
72-43-5	Methoxychlor	0.0020	U
8001-35-2	Toxaphene	0.020	U
57-74-9	Chlordane	0.0040	U
5103-71-9	alpha-Chlordane	0.00020	U
5103-74-2	gamma-Chlordane	0.00020	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-8

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) WATER Lab Sample ID: 0905184-001B

Sample wt/vol: 500 (g/mL) ML Lab File ID: a00133.raw

% Moisture: Decanted: (Y/N) N Date Received: 04/29/09

Extraction: (Type) SEPF Date Extracted: 05/01/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/07/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
58-89-9	gamma-BHC	0.00020	U
76-44-8	Heptachlor	0.00020	U
1024-57-3	Heptachlor epoxide	0.00020	U
72-20-8	Endrin	0.00040	U
72-43-5	Methoxychlor	0.0020	U
8001-35-2	Toxaphene	0.020	U
57-74-9	Chlordane	0.0040	U
5103-71-9	alpha-Chlordane	0.00020	U
5103-74-2	gamma-Chlordane	0.00020	U

H2M LABS, INC.

4.4 TCLP METALS

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-1

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Matrix (soil/water): WATER Lab Sample ID: 0905085-001

Level (low/med): LOW Date Received: 4/27/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	474	B		P
7440-43-9	Cadmium	0.84	B		P
7440-47-3	Chromium	0.44	U		P
7439-92-1	Lead	25.8	B		P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	2.7	U		P
7440-22-4	Silver	1.6	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported:5/14/09

TCLP Metals

PCCSW010 S79

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-2

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Matrix (soil/water): WATER Lab Sample ID: 0905085-002

Level (low/med): LOW Date Received: 4/27/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	1000	B		P
7440-43-9	Cadmium	6.7	B		P
7440-47-3	Chromium	0.44	U		P
7439-92-1	Lead	177	B		P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	2.7	U		P
7440-22-4	Silver	2.0	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported:5/14/09

TCLP Metals

PCCSW010 S80

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-3

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Matrix (soil/water): WATER Lab Sample ID: 0905125-001

Level (low/med): LOW Date Received: 4/28/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	713	B		P
7440-43-9	Cadmium	3.2	B		P
7440-47-3	Chromium	0.89	B		P
7439-92-1	Lead	83.9	B		P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	2.7	U		P
7440-22-4	Silver	1.8	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported:5/14/09

TCLP Metals

PCCSW010 S81

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-4

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Matrix (soil/water): WATER Lab Sample ID: 0905125-002

Level (low/med): LOW Date Received: 4/28/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	775	B		P
7440-43-9	Cadmium	2.6	B		P
7440-47-3	Chromium	0.44	U		P
7439-92-1	Lead	254	B		P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	2.7	U		P
7440-22-4	Silver	2.2	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported:5/14/09

TCLP Metals

PCCSW010 S82

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-5

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Matrix (soil/water): WATER Lab Sample ID: 0905125-003

Level (low/med): LOW Date Received: 4/28/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	589	B		P
7440-43-9	Cadmium	2.7	B		P
7440-47-3	Chromium	0.44	U		P
7439-92-1	Lead	84.2	B		P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	2.7	U		P
7440-22-4	Silver	1.8	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported:5/14/09

TCLP Metals

PCCSW010 S83

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-6

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Matrix (soil/water): WATER Lab Sample ID: 0905125-004

Level (low/med): LOW Date Received: 4/28/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	514	B		P
7440-43-9	Cadmium	3.3	B		P
7440-47-3	Chromium	0.44	U		P
7439-92-1	Lead	111	B		P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	2.7	U		P
7440-22-4	Silver	2.1	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported:5/14/09

TCLP Metals

PCCSW010 S84

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-7

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Matrix (soil/water): WATER Lab Sample ID: 0905125-005

Level (low/med): LOW Date Received: 4/28/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	517	B		P
7440-43-9	Cadmium	1.1	B		P
7440-47-3	Chromium	0.44	U		P
7439-92-1	Lead	22.1	B		P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	2.7	U		P
7440-22-4	Silver	2.3	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported:5/14/09

TCLP Metals

PCCSW010 S85

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

TP-8

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Matrix (soil/water): WATER Lab Sample ID: 0905184-001

Level (low/med): LOW Date Received: 4/29/2009

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	591	B		P
7440-43-9	Cadmium	0.41	B		P
7440-47-3	Chromium	0.44	U		P
7439-92-1	Lead	40.3	B		P
7439-97-6	Mercury	0.10	U		CV
7782-49-2	Selenium	2.7	U		P
7440-22-4	Silver	2.1	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Date Reported 5/11/2009

TCLP Metals

PCCSW010 S86

4.5 WET CHEMISTRY

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631)694-3040 . FAX: (631)420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

Clarkstown Landfill

Lab No. : **0905085-001**

Sample Information...
Type : Soil

Origin:

Attn To : Original

Client ID. : TP-1

Collected : 4/27/2009 10:49:00 AM
Received : 4/27/2009 3:03:00 PM
Collected By H2MPC
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Reactive Cyanide	< 100		1	mg/Kg	SW7.3.3.2	05/04/2009 6:02 PM
Ignitability	>60		1	°C	SW1010	04/30/2009 9:50 AM
Corrosivity PH	6.2		1	pH Units	SW9045	04/29/2009 9:00 AM
Reactive Sulfide	< 100		1	mg/Kg	SW7.3.4.2	05/01/2009 3:32 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Date Reported : 5/22/2009

Joann M. Slavin

Laboratory Manager

PCCSW010 S88

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631)694-3040 . FAX: (631)420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

Clarkstown Landfill

Lab No. : **0905085-002**

Sample Information...
Type : Soil

Origin:

Attn To : Original

Client ID. : TP-2

Collected : 4/27/2009 12:45:00 PM
Received : 4/27/2009 3:03:00 PM
Collected By H2MPC
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Reactive Cyanide	< 100		1	mg/Kg	SW7.3.3.2	05/04/2009 6:03 PM
Ignitability	>60		1	°C	SW1010	04/30/2009 9:54 AM
Corrosivity PH	6.7		1	pH Units	SW9045	04/29/2009 9:02 AM
Reactive Sulfide	< 100		1	mg/Kg	SW7.3.4.2	05/01/2009 3:34 PM

Qualifiers. E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Date Reported : 5/22/2009

Joann M. Slavin

Laboratory Manager

PCCSW010 S89

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631)694-3040 . FAX: (631)420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

Clarkstown Landfill

Lab No. : **0905125-001**

Sample Information...
Type : Soil

Origin:

Attn To : Original

Client ID. : TP-3

Collected : 4/27/2009 2:42:00 PM
Received : 4/28/2009 2:27:00 PM
Collected By H2MPC
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Reactive Cyanide	< 100		1	mg/Kg	SW7.3.3.2	05/04/2009 6:04 PM
Ignitability	>60		1	°C	SW1010	04/30/2009 9:58 AM
Corrosivity PH	6.5		1	pH Units	SW9045	04/29/2009 9:04 AM
Reactive Sulfide	< 100		1	mg/Kg	SW7.3.4.2	05/01/2009 3:36 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Date Reported : 5/22/2009

Joann M. Slavin

Laboratory Manager

PCCSW010 S90

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631)694-3040 . FAX: (631)420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

Clarkstown Landfill

Lab No. : **0905125-002**

Sample Information...
Type : Soil

Origin:

Attn To : Original

Client ID. : TP-4

Collected : 4/28/2009 7:56:00 AM
Received : 4/28/2009 2:27:00 PM
Collected By H2MPC
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Reactive Cyanide	< 100		1	mg/Kg	SW7.3.3.2	05/04/2009 6:05 PM
Ignitability	>60		1	°C	SW1010	04/30/2009 10:02 AM
Corrosivity PH	6.4		1	pH Units	SW9045	04/29/2009 9:06 AM
Reactive Sulfide	< 100		1	mg/Kg	SW7.3.4.2	05/01/2009 3:38 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Date Reported : 5/22/2009

Joann M. Slavin

Laboratory Manager

PCCSW010 S91

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631)694-3040 . FAX: (631)420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

Clarkstown Landfill

Lab No. : **0905125-003**

Sample Information...
Type : Soil

Origin:

Attn To : Original

Client ID. : TP-5

Collected :4/28/2009 9:10:00 AM
Received :4/28/2009 2:27:00 PM
Collected By H2MPC
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Reactive Cyanide	< 100		1	mg/Kg	SW7.3.3.2	05/04/2009 6:07 PM
Ignitability	>60		1	°C	SW1010	04/30/2009 10:06 AM
Corrosivity PH	7.1		1	pH Units	SW9045	04/29/2009 9:10 AM
Reactive Sulfide	< 100		1	mg/Kg	SW7.3.4.2	05/01/2009 3:42 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Date Reported : 5/22/2009

Joann M. Slavin

Laboratory Manager

PCCSW010 S92

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631)694-3040 . FAX: (631)420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

Clarkstown Landfill

Lab No. : **0905125-004**

Sample Information...
Type : Soil

Origin:

Attn To : Original

Client ID. : TP-6

Collected :4/28/2009 10:41:00 AM
Received :4/28/2009 2:27:00 PM
Collected By H2MPC
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Reactive Cyanide	< 100		1	mg/Kg	SW7.3.3.2	05/04/2009 6:08 PM
Ignitability	>60		1	°C	SW1010	04/30/2009 10:10 AM
Corrosivity PH	7.0		1	pH Units	SW9045	04/29/2009 9:12 AM
Reactive Sulfide	< 100		1	mg/Kg	SW7.3.4.2	05/01/2009 3:44 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Date Reported : 5/22/2009

Joann M. Slavin

Laboratory Manager

PCCSW010 S93

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631)694-3040 FAX:(631)420-8436 NYSDOH ID# 10478

LABORATORY RESULTS

Clarkstown Landfill

Lab No. : **0905125-005**

Sample Information...
Type : Soil

Origin:

Attn To : Original

Client ID. : TP-7

Collected :4/28/2009 12:00:00 PM
Received :4/28/2009 2:27:00 PM
Collected By H2MPC
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Reactive Cyanide	< 100		1	mg/Kg	SW7.3.3.2	05/04/2009 6:09 PM
Ignitability	>60		1	°C	SW1010	04/30/2009 10:14 AM
Corrosivity PH	7.3		1	pH Units	SW9045	04/29/2009 9:14 AM
Reactive Sulfide	< 100		1	mg/Kg	SW7.3.4.2	05/01/2009 3:46 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Date Reported : 5/22/2009

Joann M. Slavin

Laboratory Manager

PCCSW010 S94

H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID # 10478

LABORATORY RESULTS

Clarkstown Landfill

Lab No. : **0905184-001**

Sample Information...
Type : Soil

Attn To : Original

Origin:

Client ID. : TP-8

Collected : 4/28/2009 2:08:00 PM
Received : 4/29/2009 10:35:00 AM
Collected By H2MPC
Copies To :Original
CC

Parameter(s)	Results	Qualifier	D.F.	Units	Method Number	Analyzed
Reactive Cyanide	< 100		1	mg/Kg	SW7.3.3.2	05/04/2009 6:10 PM
Ignitability	>60		1	°C	SW1010	04/30/2009 10:22 AM
Corrosivity PH	6.6		1	pH Units	SW9045	04/30/2009 9:00 AM
Reactive Sulfide	< 100		1	mg/Kg	SW7.3.4.2	05/01/2009 3:48 PM

Qualifiers: E - Value above quantitation range
D - Results for Dilution

D.F. = Dilution Factor

Date Reported : 5/22/2009

Joann M. Slavin

Laboratory Manager

PCCSW010 S95

5. **SURROGATE SPIKE ANALYSIS RESULTS**
   - 5.1 TCLP VOLATILES
   - 5.2 TCLP SEMIVOLATILES
   - 5.3 TCLP PESTICIDES

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

	EPA SAMPLE NO.	SMC1 DCA#	SMC2 BFB#	SMC3 TOL#	OTHER	TOT OUT
01	VBLK050409	92	84	88		0
02	LFB050409	89	83	85		0
03	VTCLPBLANK4/29	89	86	87		0
04	TP-1	91	86	88		0
05	TP-2	72	86	88		0
06	TP-3	92	86	87		0
07	TP-4	91	85	87		0
08	TP-4MS	86	84	87		0
09	TP-4MSD	85	84	87		0
10	TP-5	88	86	88		0
11	TP-6	76	86	88		0
12	TP-7	94	86	87		0
13	TP-8	93	86	87		0

		QC Limit
SMC1 DCA	= 1,2-dichloroethane-d4	(53-183)
SMC2 BFB	= 4-Bromofluorobenzene	(52-124)
SMC3 TOL	= Toluene-d8	(60-135)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: PCCSW SAS No.: ____ SDG No.: PCCSW010

	EPA SAMPLE NO.	S1 2FP #	S2 NBZ #	S3 PD5 #	S4 TBP #	S5 FBP #	S6 TPH #	S7 2CP #	S8 DCB #	TOT OUT
01	MB-31127	51	75	38	81	73	93	71	60	0
02	LFB-31127	45	72	32	75	71	87	65	54	0
03	TP-1	52	75	38	90	75	86	72	62	0
04	TP-2	57	80	42	88	76	86	76	62	0
05	TP-3	52	72	39	87	75	84	71	64	0
06	TP-4	46	70	34	74	72	56	67	61	0
07	TP-4MS	23	73	16	59	80	97	38	66	0
08	TP-4MS	45	68	32	86	69	74	65	60	0
09	TP-5	55	74	42	92	79	86	73	67	0
10	TP-6	56	77	42	95	78	86	75	69	0
11	TP-7	50	72	34	89	75	83	70	66	0
12	TP-8	49	60	37	75	72	79	67	60	0

			QC LIMITS	
S1	2FP	= 2-Fluorophenol	(21-110)	
S2	NBZ	= Nitrobenzene-d5	(35-114)	
S3	PD5	= Phenol-d5	(10-110)	
S4	TBP	= 2,4,6-Tribromophenol	(10-123)	
S5	FBP	= 2-Fluorobiphenyl	(43-116)	
S6	TPH	= 4-Terphenyl-d14	(33-141)	
S7	2CP	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8	DCB	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

PCCSW010 S98

2E

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

GC Column(1): CLP ID: .32 (mm) GC Column(2): CLP2 ID: .32 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	Other (1)	Other (2)	TOT OUT
01	MB-31148	76	81	83	87			0
02	LFB-31148	87	91	99	102			0
03	TP-1	78	83	92	94			0
04	TP-2	70	72	87	87			0
05	TP-3	76	80	88	87			0
06	TP-4	90	96	101	114			0
07	TP-4MS	92	110	99	113			0
08	TP-4MSD	81	93	90	103			0
09	TP-5	82	87	96	112			0
10	TP-6	86	118	98	105			0
11	TP-7	84	92	97	99			0
12	TP-8	75	89	96	97			0

		QC Limits
TCX	= Tetrachloro-m-xylene	(30-150)
DCB	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

6. MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY

SYSTEM MONITORING SPIKE/DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: PCCSW SAS No.: SDG No.: PCCSW010

Matrix Spike - Sample No.: TP-4 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC #	QC LIMITS REC.
Vinyl chloride	0.05	0	0.046	91	14-152
1,1-Dichloroethene	0.05	0	0.051	101	58-112
2-Butanone	0.05	0	0.059	117	14-166
Chloroform	0.05	0	0.052	103	75-119
1,2-Dichloroethane	0.05	0	0.05	99	52-133
Carbon tetrachloride	0.05	0	0.045	90	64-126
Benzene	0.05	0	0.048	96	50-127
Trichloroethene	0.05	0	0.048	97	57-115
Tetrachloroethene	0.05	0	0.046	93	59-133
Chlorobenzene	0.05	0	0.046	92	72-124

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Vinyl chloride	0.05	0.043	86	5	20	14-152
1,1-Dichloroethene	0.05	0.051	103	1	20	58-112
2-Butanone	0.05	0.056	112	4	20	14-166
Chloroform	0.05	0.052	104	1	20	75-119
1,2-Dichloroethane	0.05	0.048	96	3	20	52-133
Carbon tetrachloride	0.05	0.043	86	4	20	64-126
Benzene	0.05	0.047	94	2	20	50-127
Trichloroethene	0.05	0.048	96	1	20	57-115
Tetrachloroethene	0.05	0.045	90	3	20	59-133
Chlorobenzene	0.05	0.045	91	1	20	72-124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 10 outside limits

Spike Recovery: 0 out of 20 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: PCCSW SAS No.: SDG No.: PCCSW010

Sample ID LFB050409 Level: (low/med) LOW

Column ID ZB-624 Column Diam .18

Inst. ID HP5971 Init. Calib. Date(s): 04/26/09 20:05

Analysis Date: 05/04/09 11:49 04/26/09 22:50

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	SPIKE CONCENTRATION (mg/L)	SPIKE % REC #	QC. LIMITS REC.
Vinyl chloride	0.05	0	0.038	75	14-152
1,1-Dichloroethene	0.05	0	0.041	81	58-112
2-Butanone	0.05	0	0.052	105	14-166
Chloroform	0.05	0	0.048	95	75-119
1,2-Dichloroethane	0.05	0	0.05	100	52-133
Carbon tetrachloride	0.05	0	0.042	85	64-126
Benzene	0.05	0	0.046	92	50-127
Trichloroethene	0.05	0	0.044	88	57-115
Tetrachloroethene	0.05	0	0.04	80	59-133
Chlorobenzene	0.05	0	0.044	88	72-124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

_____

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: PCCSW SAS No.: SDG No.: PCCSW010

Matrix Spike - EPA Sample No.: TP-4

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC #	QC. LIMITS REC.
Pyridine	0.05	0	0.02	40	12-81.6
1,4-Dichlorobenzene	0.05	0	0.03	63	38-116
2-Methylphenol	0.05	0	0.01	29	27-141
3-Methylphenol/4-Methylphenol	0.1	0	0.01	15	15-141
Hexachloroethane	0.05	0	0.03	67	39-111
Nitrobenzene	0.05	0	0.04	82	39-129
Hexachlorobutadiene	0.05	0	0.03	64	49-115
2,4,6-Trichlorophenol	0.05	0	0.04	83	37-133
2,4,5-Trichlorophenol	0.05	0	0.02	47	16-148
2,4-Dinitrotoluene	0.05	0	0.03	65	46-118
Hexachlorobenzene	0.05	0	0.04	80	55-127
Pentachlorophenol	0.05	0	0.005	9*	13-123

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Pyridine	0.05	0.0203	41	2	30	12-81.6
1,4-Dichlorobenzene	0.05	0.0284	57	10	30	38-116
2-Methylphenol	0.05	0.03	60	70*	30	27-141
3-Methylphenol/4-Methylphenol	0.1	0.0459	46	102*	30	15-141
Hexachloroethane	0.05	0.0279	56	18	30	39-111
Nitrobenzene	0.05	0.0331	66	22	30	39-129
Hexachlorobutadiene	0.05	0.0299	60	6	30	49-115
2,4,6-Trichlorophenol	0.05	0.037	74	11	30	37-133
2,4,5-Trichlorophenol	0.05	0.0379	76	47*	30	16-148
2,4-Dinitrotoluene	0.05	0.033	66	2	30	46-118
Hexachlorobenzene	0.05	0.0364	73	9	30	55-127
Pentachlorophenol	0.05	0.0258	52	141*	30	13-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 4 out of 12 outside limits

Spike Recovery: 1 out of 24 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: PCCSW SAS No.: SDG No.: PCCSW010

Sample ID LFB-31127 Level:(low/med) LOW

Column ID R-5SILMS Column Diam .25

Inst. ID HP5972 Init. Calib. Date(s): 04/28/09 12:26

Analysis Date: 05/01/09 14:17 04/28/09 15:01

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	SPIKE CONCENTRATION (mg/L)	SPIKE % REC #	QC. LIMITS REC.
Pyridine	0.05	0	0.0204	41	12-81.6
1,4-Dichlorobenzene	0.05	0	0.0252	50	38-116
2-Methylphenol	0.05	0	0.028	56	27-141
3-Methylphenol/4-Methylphenol	0.1	0	0.0406	41	15-141
Hexachloroethane	0.05	0	0.0252	50	39-111
Nitrobenzene	0.05	0	0.035	70	39-129
Hexachlorobutadiene	0.05	0	0.0244	49	49-115
2,4,6-Trichlorophenol	0.05	0	0.0351	70	37-133
2,4,5-Trichlorophenol	0.05	0	0.0362	72	16-148
2,4-Dinitrotoluene	0.05	0	0.035	70	46-118
Hexachlorobenzene	0.05	0	0.0343	69	55-127
Pentachlorophenol	0.05	0	0.027	54	13-123

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix Spike - EPA Sample No.: TP-4

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC	0.001	0	0.00092	92	58-124
Heptachlor	0.001	0	0.0011	109	61-110
Heptachlor epoxide	0.001	0	0.00097	97	52-131
Endrin	0.001	0	0.001	101	57-147
Methoxychlor	0.01	0	0.01	100	51-124
alpha-Chlordane	0.001	0	0.001	100	49-134
gamma-Chlordane	0.001	0	0.0011	109	61-110

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC	0.001	0.00097	97	5	20	58-124
Heptachlor	0.001	0.0012	119*	9	20	61-110
Heptachlor epoxide	0.001	0.001	100	3	20	52-131
Endrin	0.001	0.00096	96	5	20	57-147
Methoxychlor	0.01	0.011	108	8	20	51-124
alpha-Chlordane	0.001	0.0011	110	10	20	49-134
gamma-Chlordane	0.001	0.0012	119*	9	20	61-110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 7 outside limits

Spike Recovery: 2 out of 14 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: PCCSW SAS No.: SDG No.: PCCSW010

Sample ID LFB-31148 Level: (low/med) LOW

Column ID CLP Column Diam .32

Inst. ID HP6890-2

Analysis Date: 05/07/09 17:56

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	SPIKE CONCENTRATION (mg/L)	SPIKE % REC #	QC. LIMITS REC.
gamma-BHC	0.001	0	0.00095	95	58-124
Heptachlor	0.001	0	0.001	104	61-110
Heptachlor epoxide	0.001	0	0.00099	99	52-131
Endrin	0.001	0	0.001	101	57-147
Methoxychlor	0.01	0	0.01	105	51-124
alpha-Chlordane	0.001	0	0.001	104	49-134
gamma-Chlordane	0.001	0	0.0011	105	32-144

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 7 outside limits

COMMENTS:

7. **DUPLICATE SUMMARY RESULTS**
   - 7.1 TCLP METALS
   - 7.2 WET CHEMISTRY

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO
TP-4

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		2.8099	U	2.8099	U			P
Barium	.0000.0000	774.8700	B	767.7800	B	0.9		P
Cadmium	100.0000	2.5500	B	2.6800	B	5.0		P
Chromium		0.4357	U	0.4357	U			P
Lead	1000.0000	254.0000	B	251.0000	B	1.2		P
Mercury		0.1000	U	0.1000	U			CV
Selenium		2.6720	U	2.6720	U			P
Silver	1000.0000	2.2304	B	2.3314	B	4.4		P

H2M LABS, INC.

Date: *20-May-09*

QC SUMMARY REPORT

SDG: PCCSW010

Sample ID:	Client Sample ID:	Analyte	Result	Units	Spike Amount	Sample Result	%REC	Recovery Limits		RPDRef Value	%RPD	%RPD UCL
0905125-002Ddup	TP-4DUP	Corrosivity PH	6.4	pH_units						6.4	0.63	20
MB-R100770	MB-R100770	Ignitability	>60	DEG C								
LCS-R100770	LCS-R100770	Ignitability	29.3	DEG C	29	0	101	99	118			
0905125-002CDUP	0905125-002CDUP	Ignitability	>60	DEG C						0	0	6.7
0905125-002DDUP	TP-4DUP	Reactive Cyanide	< 100	mg/kg						< 100		20
MB-050109	MB-050109	Reactive Sulfide	< 100	mg/kg								
0905125-002Ddup	TP-4DUP	Reactive Sulfide	< 100	mg/kg						< 100		20

8. **SPIKE SAMPLE RESULTS**
   - 8.1 TCLP METALS
   - 8.2 WET CHEMISTRY

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO
TP-4S

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75-125	1040.0000		2.8099	U	1000.00	104.0		P
Barium	75-125	1688.9900	B	774.8700	B	1000.00	91.4		P
Cadmium	75-125	961.8800		2.5500	B	1000.00	95.9		P
Chromium	75-125	949.8800	B	0.4357	U	1000.00	95.0		P
Lead	75-125	1130.0000		254.0000	B	1000.00	87.6		P
Mercury	75-125	0.9310		0.1000	U	1.00	93.1		CV
Selenium	75-125	972.0000		2.6720	U	1000.00	97.2		P
Silver	75-125	803.4818	B	2.2304	B	1000.00	80.1		P

Comments:

H2M LABS, INC.

Date: *20-May-09*

QC SUMMARY REPORT

SDG: PCCSW010

Sample ID:	Client Sample ID:	Analyte	Result	Units	Spike Amount	Sample Result	%REC	Recovery Limits		RPDRef Value	%RPD	%RPD UCL
0905125-002Ddup	TP-4DUP	Corrosivity PH	6.4	pH_units						6.4	0.63	20
MB-R100770	MB-R100770	Ignitability	>60	DEG C								
LCS-R100770	LCS-R100770	Ignitability	29.3	DEG C	29	0	101	99	118			
0905125-002CDUP	0905125-002CDUP	Ignitability	>60	DEG C						0	0	6.7
0905125-002DDUP	TP-4DUP	Reactive Cyanide	< 100	mg/kg						< 100		20
MB-050109	MB-050109	Reactive Sulfide	< 100	mg/kg								
0905125-002Ddup	TP-4DUP	Reactive Sulfide	< 100	mg/kg						< 100		20

9. BLANK SUMMARY DATA AND RESULTS

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLK050409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Lab File ID: A\A64695.D Lab Sample ID: VBLK050409

Date Analyzed: 05/04/09 Time Analyzed: 11:19

GC Column: ZB-624 ID: .18 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5971

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB050409	LFB050409	A\A64696.D	11:49
02	VTCLPBLANK4/29	VTCLPBLANK4/29	A\A64703.D	16:58
03	TP-1	0905085-001A	A\A64704.D	17:27
04	TP-2	0905085-002A	A\A64705.D	17:56
05	TP-3	0905125-001A	A\A64706.D	18:25
06	TP-4	0905125-002A	A\A64707.D	18:54
07	TP-4MS	0905125-002AMS	A\A64708.D	19:23
08	TP-4MSD	0905125-002AMSD	A\A64709.D	19:52
09	TP-5	0905125-003A	A\A64710.D	20:21
10	TP-6	0905125-004A	A\A64711.D	20:50
11	TP-7	0905125-005A	A\A64712.D	21:20
12	TP-8	0905184-001A	A\A64713.D	21:49

COMMENTS: _____

_____

Form 1

CLIENT SAMPLE NO.

VBLK050409

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: VBLK050409

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A64695.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Extracted:

GC Column: ZB-624 ID: .18 (mm) Date Analyzed: 5/4/2009

Extract Volume: _____ (µl) Dilution Factor: 1.00

Injection Volume: _____ (µl)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) mg/L	Q
75-01-4	Vinyl chloride	0.01	U
75-35-4	1,1-Dichloroethene	0.01	U
78-93-3	2-Butanone	0.01	U
67-66-3	Chloroform	0.01	U
107-06-2	1,2-Dichloroethane	0.01	U
56-23-5	Carbon tetrachloride	0.01	U
71-43-2	Benzene	0.01	U
79-01-6	Trichloroethene	0.01	U
127-18-4	Tetrachloroethene	0.01	U
108-90-7	Chlorobenzene	0.01	U

Form 1

CLIENT SAMPLE NO.

VTCLPBLANK4/29

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: VTCLPBLANK4/29

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A64703.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date ~~Extracted~~ leached: 4/29/09

GC Column: ZB-624 ID: .18 (mm) Date Analyzed: 5/4/2009 5/18/09

Extract Volume: _____ (µl) Dilution Factor: 1.00

Injection Volume: _____ (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
75-01-4	Vinyl chloride	0.01	U
75-35-4	1,1-Dichloroethene	0.01	U
78-93-3	2-Butanone	0.01	U
67-66-3	Chloroform	0.01	U
107-06-2	1,2-Dichloroethane	0.01	U
56-23-5	Carbon tetrachloride	0.01	U
71-43-2	Benzene	0.01	U
79-01-6	Trichloroethene	0.01	U
127-18-4	Tetrachloroethene	0.01	U
108-90-7	Chlorobenzene	0.01	U

EPA SAMPLE NO.

MB-31127

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Lab File ID: A\C46679.D Lab Sample ID: MB-31127

Instrument ID: HP5972 Date Extracted: 04/30/09

Matrix: (soil/water) WATER Date Analyzed: 05/01/09

Level: (low/med) LOW Time Analyzed: 13:46

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	LFB-31127	LFB-31127	A\C46680.D	5/1/09
2	TP-1	0905085-001B	A\C46684.D	5/1/09
3	TP-2	0905085-002B	A\C46685.D	5/1/09
4	TP-3	0905125-001B	A\C46686.D	5/1/09
5	TP-4	0905125-002B	A\C46687.D	5/1/09
6	TP-4MS	0905125-002BMS	A\C46688.D	5/1/09
7	TP-4MSD	0905125-002BMSD	A\C46689.D	5/1/09
8	TP-5	0905125-003B	A\C46690.D	5/1/09
9	TP-6	0905125-004B	A\C46691.D	5/1/09
10	TP-7	0905125-005B	A\C46692.D	5/1/09
11	TP-8	0905184-001B	A\C46693.D	5/1/09

COMMENTS: _____

CLIENT SAMPLE NO.

MB-31127

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) Leachate Lab Sample ID: MB-31127

Sample wt/vol: 500 (g/mL) ML Lab File ID: A\C46679.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Extracted: 4/30/09

GC Column: R-5SILMS ID: .25 (mm) Date Analyzed: 5/1/09

Extract Volume: 500 (µl) Dilution Factor: 1.00

Injection Volume: 2 (µl)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/L	Q
110-86-1	Pyridine	0.01	U
106-46-7	1,4-Dichlorobenzene	0.01	U
95-48-7	2-Methylphenol	0.01	U
12-03-3	3-Methylphenol/4-Methylphenol	0.01	U
67-72-1	Hexachloroethane	0.01	U
98-95-3	Nitrobenzene	0.01	U
87-68-3	Hexachlorobutadiene	0.01	U
88-06-2	2,4,6-Trichlorophenol	0.01	U
95-95-4	2,4,5-Trichlorophenol	0.03	U
121-14-2	2,4-Dinitrotoluene	0.01	U
118-74-1	Hexachlorobenzene	0.01	U
87-86-5	Pentachlorophenol	0.03	U

PCCSW010 S118

EPA SAMPLE NO.

MB-31148

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Lab Sample ID: MB-31148 Lab File ID: a00122.raw

Matrix: (soil/water) W Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 05/01/09

Date Analyzed (1): 05/07/09 Date Analyzed (2): 05/07/09

Time Analyzed (1): 17:41 Time Analyzed (2): 17:41

Instrument ID (1): HP6890-2 Instrument ID (2): HP6890-2

GC Column (1): CLP ID: .32 (mm) GC Column (2): CLP2 ID: .32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	LFB-31148	LFB-31148	5/7/2009	5/7/2009
2	TP-1	0905085-001B	5/7/2009	5/7/2009
3	TP-2	0905085-002B	5/7/2009	5/7/2009
4	TP-3	0905125-001B	5/7/2009	5/7/2009
5	TP-4	0905125-002B	5/7/2009	5/7/2009
6	TP-4MS	0905125-002Bms	5/7/2009	5/7/2009
7	TP-4MSD	0905125-002Bmsd	5/7/2009	5/7/2009
8	TP-5	0905125-003B	5/7/2009	5/7/2009
9	TP-6	0905125-004B	5/7/2009	5/7/2009
10	TP-7	0905125-005B	5/7/2009	5/7/2009
11	TP-8	0905184-001B	5/7/2009	5/7/2009

COMMENTS: _____

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MB-31148

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Matrix: (soil/water) WATER Lab Sample ID: MB-31148

Sample wt/vol: 500 (g/mL) ML Lab File ID: a00122.raw

% Moisture: Decanted: (Y/N) N Date Received:

Extraction: (Type) SEPF Date Extracted: 05/01/09

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/07/09

Injection Volume: 0.5 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
58-89-9	gamma-BHC	0.00020	U
76-44-8	Heptachlor	0.00020	U
1024-57-3	Heptachlor epoxide	0.00020	U
72-20-8	Endrin	0.00040	U
72-43-5	Methoxychlor	0.0020	U
8001-35-2	Toxaphene	0.020	U
57-74-9	Chlordane	0.0040	U
5103-71-9	alpha-Chlordane	0.00020	U
5103-74-2	gamma-Chlordane	0.00020	U

U.S. EPA - CLP

3
BLANKS

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic	2.8	U	2.8	U	2.8	U	2.8	U	2.810	U	P
Barium	1.4	U	1.4	U	1.4	U	1.4	U	1.428	U	P
Cadmium	0.2	U	0.2	U	0.3	B	0.6	B	-0.360	B	P
Chromium	-2.6	B	-2.7	B	-2.7	B	-3.0	B	-2.780	B	P
Lead	1.5	U	1.5	U	1.5	U	-1.6	B	2.510	B	P
Selenium	2.7	U	2.7	U	2.7	U	3.6	B	2.672	U	P
Silver	0.6	U	0.7	B	1.3	B	1.8	B	0.599	U	P

U.S. EPA - CLP

3
BLANKS

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic			4.4	B							P
Barium			1.4	U							P
Cadmium			0.5	B							P
Chromium			-2.5	B							P
Lead			1.5	U							P
Selenium			2.7	U							P
Silver			0.6	U							P

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

MBLKTCLP

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Matrix (soil/water): WATER Lab Sample ID: MB1-31131

Level (low/med): LOW Date Received:

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.8	U		P
7440-39-3	Barium	7.5	B		P
7440-43-9	Cadmium	0.23	U		P
7440-47-3	Chromium	0.44	U		P
7439-92-1	Lead	2.3	B		P
7782-49-2	Selenium	7.1	B		P
7440-22-4	Silver	1.4	B		P

Comments:

Date Reported 5/11/2009

TCLP Metals

PCCSW010 S123

U.S. EPA - CLP

3
BLANKS

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

PBWT

Lab Name: H2M LABS, INC.

Lab Code: 10478 Case No. SAS No.: SDG No.: PCCSW010

Matrix (soil/water): WATER Lab Sample ID: MB1-31134

Level (low/med): LOW Date Received:

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.10	U		CV

Comments:

Date Reported 5/11/2009

TCLP Metals

PCCSW010 S125

H2M LABS, INC.

Date: *20-May-09*

QC SUMMARY REPORT

SDG: PCCSW010

Sample ID:	Client Sample ID:	Analyte	Result	Units	Spike Amount	Sample Result	%REC	Recovery Limits		RPDRef Value	%RPD	%RPD UCL
0905125-002Ddup	TP-4DUP	Corrosivity PH	6.4	pH_units						6.4	0.63	20
MB-R100770	MB-R100770	Ignitability	>60	DEG C								
LCS-R100770	LCS-R100770	Ignitability	29.3	DEG C	29	0	101	99	118			
0905125-002CDUP	0905125-002CDUP	Ignitability	>60	DEG C						0	0	6.7
0905125-002DDUP	TP-4DUP	Reactive Cyanide	< 100	mg/kg						< 100		20
MB-050109	MB-050109	Reactive Sulfide	< 100	mg/kg								
0905125-002Ddup	TP-4DUP	Reactive Sulfide	< 100	mg/kg						< 100		20

H2M LABS, INC.

10. INTERNAL STANDARD AREA DATA

10.1 TCLP VOLATILES
10.2 TCLP SEMIVOLATILES
10.3 TCLP PESTICIDES

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

Lab File ID (Standard): A\A64694.D Date Analyzed: 05/04/09

EPA Sample No.(VSTD050##): VSTD050 Time Analyzed: 10:47

Instrument ID: HP5971 Heated Purge: (Y/N) N

GC Column: ZB-624 ID: .18 (mm)

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	107367	8.04	657202	9.17	644105	12.93
	UPPER LIMIT	214734	8.54	1314404	9.67	1288210	13.43
	LOWER LIMIT	53684	7.54	328601	8.67	322053	12.43
	EPA SAMPLE						
01	VBLK050409	107563	8.04	659297	9.17	636736	12.93
02	LFB050409	109141	8.04	648805	9.17	644033	12.93
03	VTCLPBLANK4/29	102996	8.25	672476	9.38	657761	13.17
04	TP-1	103499	8.25	668064	9.38	654040	13.17
05	TP-2	131495	8.26	672726	9.39	657554	13.17
06	TP-3	101747	8.26	663664	9.39	655191	13.18
07	TP-4	102729	8.27	664690	9.39	654012	13.18
08	TP-4MS	105739	8.27	670917	9.40	656003	13.19
09	TP-4MSD	106446	8.27	678797	9.40	663308	13.19
10	TP-5	103876	8.27	677076	9.40	652419	13.19
11	TP-6	121522	8.27	674647	9.40	653940	13.19
12	TP-7	98840	8.27	665871	9.40	653463	13.19
13	TP-8	99968	8.27	663739	9.39	648429	13.19

IS1 = Bromochloromethane
IS2 = 1,4-difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 05/01/09

Lab File ID (Standard): A\C46675.D Time Analyzed: 11:41

Instrument ID: HP5972 GC Column: R-5SILMS ID: .25 (mm)

		IS1 AREA #	IS1 RT #	IS2 AREA #	IS2 RT #	IS3 ACE AREA #	IS3 ACE RT #
	12 HOUR STD	47994	4.53	177176	6.09	84147	9.15
	UPPER LIMIT	95988	5.03	354352	6.59	168294	9.65
	LOWER LIMIT	23997	4.03	88588	5.59	42074	8.65
	EPA SAMPLE NO.						
01	MB-31127	41043	4.53	149112	6.09	68337	9.15
02	LFB-31127	43339	4.53	153258	6.08	71230	9.14
03	TP-1	39857	4.53	144900	6.09	65599	9.15
04	TP-2	40662	4.53	148592	6.09	68696	9.14
05	TP-3	42529	4.53	159686	6.09	71542	9.15
06	TP-4	44716	4.53	177342	6.09	77836	9.16
07	TP-4MS	49299	4.53	210798	6.10	87245	9.20
08	TP-4MSD	46598	4.53	168543	6.09	80757	9.15
09	TP-5	46986	4.53	173294	6.09	79067	9.15
10	TP-6	46711	4.53	172555	6.09	78692	9.15
11	TP-7	47937	4.53	173408	6.09	80757	9.15
12	TP-8	48164	4.53	205128	6.09	83736	9.16

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 ACE = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: PCCSW SAS No.: _____ SDG No.: PCCSW010

EPA Sample No.(SSTD050##): SSTD025 Date Analyzed: 05/01/09

Lab File ID (Standard): A\C46675.D Time Analyzed: 11:41

Instrument ID: HP5972 GC Column: R-5SILMS ID: .25 (mm)

		IS4		IS5		IS6	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	119244	12.04	147276	15.09	128335	16.18
	UPPER LIMIT	238488	12.54	294552	15.59	256670	16.68
	LOWER LIMIT	59622	11.54	73638	14.59	64168	15.68
	EPA SAMPLE NO.						
01	MB-31127	98547	12.03	101806	15.08	99808	16.17
02	LFB-31127	103851	12.02	103013	15.08	98902	16.18
03	TP-1	98597	12.03	104146	15.09	100097	16.17
04	TP-2	100417	12.02	104379	15.08	102320	16.17
05	TP-3	103424	12.02	108562	15.08	100820	16.17
06	TP-4	109934	12.04	122676	15.09	109625	16.20
07	TP-4MS	122430	12.07	93724	15.13	48466*	16.24
08	TP-4MSD	116659	12.03	119179	15.09	93919	16.17
09	TP-5	115271	12.03	118711	15.09	96343	16.17
10	TP-6	117951	12.03	119257	15.09	96528	16.17
11	TP-7	118231	12.03	123569	15.09	102035	16.17
12	TP-8	107475	12.03	125907	15.08	101702	16.16

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

PCCSW010 S130