

# Data Validation Services

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November 1, 2005

Paul Lageraen  
H2M Group  
575 Broad Hollow Rd.  
Melville, NY 11747

RE: **Data Usability Summary Report** for Town of Oyster Bay, Bethpage site  
H2M Laboratories SDG Nos. TOB0047 through TOB053  
STL-VT SDG No. 110080

Dear Mr. Lageraen:

Review has been completed for the data packages generated by H2M Laboratories that pertain to samples collected 9/21/05 through 10/04/05 at the Town of Oyster Bethpage site. Seventy-three soil samples and six blind field duplicates were analyzed for TCL PCBs and RCRA metals. Twenty soil samples and one aqueous sample were processed for TCL volatiles with two freon compounds, TCL semivolatiles, TCL PCBs, TAL metals/CN, and hexavalent chromium. Eleven air samples were analyzed for volatiles by USEPA method TO-15. Laboratory analytical methodologies utilized for the soil and aqueous samples are those of the NYSDEC ASP/SW846. Sample matrix spikes, and equipment and trip blanks were also processed.

The data packages submitted contained full deliverables for validation, but this usability report is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Data Review, as affects the usability of the sample data. The following items were reviewed:

- \* Laboratory Narrative Discussion
- \* Case Narratives
- \* Custody Documentation
- \* Holding Times
- \* Surrogate and Internal Standard Recoveries
- \* Matrix Spike Recoveries/Duplicate Correlations
- \* Preparation/Calibration Blanks
- \* Control Spike/Laboratory Control Samples
- \* Instrumental Tunes and IDLs
- \* Calibration/CRI/CRA Standards
- \* ICP Interference Check Standards
- \* ICP Serial Dilution Correlations
- \* Method Compliance
- \* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR review level.

**In summary**, samples were processed in compliance with protocol, and results are usable as reported, or with minor edit or qualification of results as estimated. Some of the pesticide/PCB reporting limits (in samples with high Aroclor concentrations) are elevated.

Copies of the NYSDEC Sample Identification and Analytical Requirement Summary Forms are attached to this text, and should be reviewed in conjunction with this report. Included with this report are red-ink edited sample report forms that represent final qualified samples results.

The following text discusses quality issues of concern.

### **General**

Blind field duplicate correlation was performed for PCBs and RCRA metals on the following samples: Q3(0-2), Q6(0-2), O4(4-6), I14(4-6), R1(4-6), and R3(18-20). All results fall within acceptable limits.

Discrepancies in custody entries were resolved at sample receipt.

No laboratory receipt signature was present on the custody for soil gas samples collected on 9/27/05. The associated sample log-in page is signed and shows receipt date.

### **TCL Volatiles by EPA8260B**

The method blank and field blanks consistently show low levels of methylene chloride at concentrations similar to those in the project samples. Therefore, the sample detections of that compound are to be disregarded as sample components, and are edited to reflect non-detection ("U") at the CRDL, or the originally reported concentration, whichever is greater.

Due to poor spectral match, the low level result for chlorodifluoromethane in R3(2-4) is qualified as tentative in identification and estimated in value ("NJ").

Due to very poor spectral match, the low level result for chlorodifluoromethane in R3(8-10) is edited to reflect non-detection ("U") at the CRDL.

Calibrations standards showed responses within guidelines, with the following exceptions, results for which are qualified in the indicated associated samples:

- bromoform in the field blanks, trip blanks, and in CAMW-5
- dichlorodifluoromethane in O9(2-4) and P4(8-10), in all soils reported in SDG TOB050, and in all soils reported in SDG TOB051 except R5(6-8)

Holding times were met, and surrogate and internal standard responses are acceptable.

Matrix spikes of Q9(8-10), Q6(8-10), O9(2-4), I14(0-2), and R3(48-50) show acceptable accuracy and precision.

Tentatively Identified Compounds (TICs) flagged as “B” by the laboratory, or identified as siloxanes are considered external contamination (indicated by presence in associated blanks), and results should be rejected as sample components.

TICs flagged by the laboratory as “X” are analysis artifacts and are rejected from consideration as target analytes.

#### **TCL Semivolatile Analyses by EPA8270C**

Results for analytes initially reported with the “E” flag derived from the dilution analyses of those samples.

Detected values of benzo(b)fluoranthene and benzo(k)fluoranthene in P9(8-10) are qualified as estimated due to poor resolution.

Calibrations standards showed acceptable responses, or slightly outlying elevated responses not affecting the usability of the sample results, with the exception that results for the following, results of which are qualified as estimated in the associated, indicated samples:

- Hexachlorocyclopentadiene and pentachlorophenol (26%D to 47%D) in all samples reported in SDGs TOB047, TOB048, TOB049, TOB051, and TOB052, those at location “R” reported in TOB050,
- Pentachlorophenol (37%D) in samples at location “I14”

Holding times were met, and surrogate and internal standard responses are acceptable.

Matrix spikes of Q9(8-10), Q6(8-10), Q9(2-4), I14(0-2), R5(4-6), R3(48-50), and CAMW-5 produced acceptable accuracy and precision (or elevated recoveries or correlations for analytes not detected in the parent sample), with the exception of a low recovery for pentachlorophenol in one of the spikes of R5(4-6). Results for that analyte in the project samples are already qualified as estimated due to calibration standard responses.

Tentatively Identified Compounds (TICs) flagged as “B”, “X”, or “A” by the laboratory are considered external contamination (indicated by presence in associated blanks), and results should be rejected as sample components. Additionally, the TIC identified as “Erucylamide” (which is a poor match) appears in samples and field blanks. That TIC is also rejected in the samples. The TICs at about 3.6’ and 3.7’ in many of the soil samples are rejected due to presence of those unknowns in associated field blanks.

The dilution analysis of O9(2-4) is to be used for TIC quantitations due to interferences in the less dilute analysis.

Values for TICs flagged by the laboratory as “Y” may have a low bias due to matrix interference effect on the quantitative determinations.

#### **TCL PCB Analyses by EPA8082**

Surrogate standards show acceptable recoveries when not diluted (due to sample constituency) beyond detection.

Reporting limits for non-detected Aroclor mixtures that were reported with the "X" flag are qualified as estimated, with a possible low bias, due to responses from other mixtures present in the sample that may mask those detections.

Aroclor results flagged as "Z" by the laboratory are qualified as estimated due to matrix interferences.

Results for sample analytes initially reported with the "E" flag are to be derived from the dilution ("-DL") analyses of the samples.

Due to interferences from the high PCB constituency of samples O4, O4(2-4), P2(2-4), Q9(8-10), Q9(0-2), and Q9(2-4) only the dilution analyses are to be used. This results in elevated reporting limits for non-detected Aroclor mixtures.

The results for Aroclor 1260 in Q6, for Aroclor 1254 in P4(0-2), Q4(0-2), and Q6, and for Aroclor 1242 in Q7(2-4), P4(0-2), and Q4(0-2) are qualified as estimated in value ("J") due to poor dual column correlations and pattern match.

Due to outlying calibration standard responses, detected results for Aroclor 1254 are qualified as estimated in J11(0-2) and J11(2-4).

The sample Aroclor 1242 detections show a weathered pattern, and the laboratory therefore worked to optimize the quantitative accuracy. Although not qualified, these values may have a bias.

Matrix spikes of Aroclors 1016 and 1260 in Q9 (8-10), Q6(8-10), O9(2-4), I14(0-2), R5(4-6), R3(48-50), and CAMW5 show acceptable recoveries and duplicate correlations. In some cases, the sample concentrations of Aroclor 1242 are too high to accurately evaluate the spiked Aroclor 1016 recoveries (due to similarity in pattern).

#### **Volatile Analyses by EPA TO-15**

Results for sample analytes initially reported with the "E" flag are to be derived from the dilution ("-DL") analyses of the samples.

The LCSs show outlying elevated recoveries for isopropyl alcohol, 1,4-dioxane, t-butyl alcohol, and acetone. Detected results for those analytes in associated samples have been qualified as estimated.

Calibration standards show elevated responses for acetone (33%D to 39%D on 10/11/05 and 10/12/05) and isopropyl alcohol (37%D on 10/16/05). Detected results of those compounds in the associated samples are qualified as estimated ("J").

Holding times were met, and blanks show no contamination. Internal standard responses are within required limits.

**RCRA and TAL Metals/CN by 6010B, 7470, and 7471**

Sample matrix spike recovery/duplicate correlation values were within validation guidelines for M9 (4-6) and CAMW5. The following validation action outliers were observed in soil matrix spike recoveries and laboratory duplicate correlations. Results for the indicated analytes are qualified estimated in all samples associated with the spike and duplicate:

<u>Sample Spiked</u>	<u>Analyte</u>	<u>Rec Outlier</u>	<u>Dup Outlier</u>	<u>Associated Samples</u>
Q9(8-10)	Antimony	62 %		TOB047
	Manganese	343		"
	Selenium	131		only Q9(0-2) affected
Q6(8-10)	Antimony	50		TOB048
	Chromium	52		"
	Manganese	2		"
O9(2-4)	arsenic	195		TOB049
	Cadmium	30		"
	Chromium	279		"
	Copper	665		"
	Calcium		101%RPD	"
R6(0-2)	manganese	264		TOB051
	Zinc		>±2XCRDL	"
R3(48-50)	Antimony	71		TOB052
	Selenium	54		"

ICP serial dilution correlation evaluations were performed on Q9(8-10), Q6(8-10), O9(2-4), Q9(2-4), I14(0-2), R6(0-2), R3(58-60), and CAMW5. Results for the following detected sample analytes are qualified estimated due to outlying correlations:

- Potassium (12%D) in TOB047
- Copper and potassium (12%D to 13%D) in TOB048
- Calcium, magnesium, and zinc (23%D to 29%D) in TOB050
- Aluminum (140%D), potassium (60%D), and zinc (14%D) in TOB052
- Aluminum (24%D) in CAMW-5

Sample processing was compliant, and reported results are substantiated by the raw data.

**Wet Chemistry Analyses-Cr+6 by SW7196**

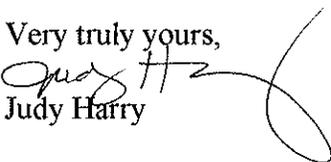
Review was conducted for method compliance, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All were found acceptable unless noted specifically within this text.

The matrix spike and duplicate of Q6(8-10), O9(2-4), I14(0-2)R3(48-50), and CAMW5 show acceptable accuracy and precision.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry



## **VALIDATION QUALIFIER DEFINITIONS**

## DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

- U** - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J** - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N** - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ** - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ** - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R** - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

## **LABORATORY SAMPLE IDs AND CASE NARRATIVES**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND  
ANALYTICAL REQUIREMENT SUMMARY

SDG: TOB047

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	GCSEMI	ME	MSSEMI	MSVOA	WC
P9 (0-2)	0509683-001	X	X			
P9 (2-4)	0509683-002	X	X			
P9 (4-6)	0509683-003	X	X			
P9 (8-10)	0509683-004	X	X	X	X	X
Q7 (0-2)	0509683-005	X	X			
Q7 (2-4)	0509683-006	X	X			
Q7 (4-6)	0509683-007	X	X			
Q7 (8-10)	0509683-008	X	X	X	X	X
Q8	0509683-009	X	X			
Q8 (0-2)	0509683-010	X	X			
Q8 (2-4)	0509683-011	X	X			
Q8 (4-6)	0509683-012	X	X			
Q8 (8-10)	0509683-013	X	X	X	X	X
Q9 (0-2)	0509683-014	X	X			
Q9 (2-4)	0509683-015	X	X			
Q9 (4-6)	0509683-016	X	X			
Q9 (8-10)	0509683-017	X	X	X	X	X
FB47	0509683-018	X	X	X	X	X
TB47	0509683-019				X	

CLP, ~~Non-CLP~~ (Please indicate year of protocol)  
TCL/TAL, HSL, Priority Pollutant,

ASP B 10/95

(KJS 10/12/05)

TOB047 S4

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND  
ANALYTICAL REQUIREMENT SUMMARY

SDG: TOB048

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	GCSEMI	ME	MSSEMI	MSVOA	WC
P4 (0-2)	0509695-001	X	X			
P4 (2-4)	0509695-002	X	X			
P4 (4-6)	0509695-003	X	X			
Q4 (0-2)	0509695-004	X	X			
Q4 (2-4)	0509695-005	X	X			
Q4 (4-6)	0509695-006	X	X			
Q4 (8-10)	0509695-007	X	X	X	X	X
Q5 (0-2)	0509695-008	X	X			
Q5 (2-4)	0509695-009	X	X			
Q5 (4-6)	0509695-010	X	X			
Q5 (8-10)	0509695-011	X	X	X	X	X
Q6	0509695-012	X	X			
Q6 (0-2)	0509695-013	X	X			
Q6 (2-4)	0509695-014	X	X			
Q6 (4-6)	0509695-015	X	X			
Q6 (8-10)	0509695-016	X	X	X	X	X
FB48	0509695-017	X	X	X	X	X

CLP, Non-CLP (Please indicate year of protocol) ASP B 10/95  
TCL/TAL, HSL, Priority Pollutant,

(KJS  
10/10/95)

TOB048 S4

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND  
ANALYTICAL REQUIREMENT SUMMARY

SDG: TOB049

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	GCSEMI	ME	MSSEMI	MSVOA	WC
I13 (0-2)	0509742-001	X	X			
I13 (2-4)	0509742-002	X	X			
I13 (4-6)	0509742-003	X	X			
I13 (8-10)	0509742-004	X	X	X	X	X
J11 (0-2)	0509742-005	X	X	X	X	X
J11 (2-4)	0509742-006	X	X			
J11 (4-6)	0509742-007	X	X			
J11 (8-10)	0509742-008	X	X			
O4	0509742-009	X	X			
O4 (0-2)	0509742-010	X	X			
O4 (2-4)	0509742-011	X	X			
O9 (0-2)	0509742-012	X	X			
O9 (2-4)	0509742-013	X	X	X	X	X
O9 (4-6)	0509742-014	X	X			
O9 (8-10)	0509742-015	X	X			
P4 (8-10)	0509742-016	X	X	X	X	X
FB49	0509742-017	X	X	X	X	X

CLP (~~Non-CLP~~) Please indicate year of protocol) **ASP B 10/95**  
TCL/TAL, HSL, Priority Pollutant,

10/11/95

TOB049 S3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND  
ANALYTICAL REQUIREMENT SUMMARY

SDG: TOB050

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	GCSEMI	ME	MSSEMI	MSVOA	WC
I14	0509757-001	X	X			
I14 (0-2)	0509757-002	X	X	X	X	X
I14 (2-4)	0509757-003	X	X			
I14 (4-6)	0509757-004	X	X			
I14 (8-10)	0509757-005	X	X			
R2 (0-2)	0509757-006	X	X			
R2 (2-4)	0509757-007	X	X	X	X	X
R2 (4-6)	0509757-008	X	X			
R2 (8-10)	0509757-009	X	X			
R4 (0-2)	0509757-010	X	X			
R4 (2-4)	0509757-011	X	X			
R4 (4-6)	0509757-012	X	X			
R4 (6-8)	0509757-013	X	X	X	X	X
R4 (8-10)	0509757-014	X	X			
FB50	0509757-015	X	X	X	X	X

CLP, ~~Non-CLP~~ (Please indicate year of protocol) ASP B 10/95  
TCL/TAL, HSL, Priority Pollutant,

KJS  
10/2/05

TOB050 S4

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND  
ANALYTICAL REQUIREMENT SUMMARY

SDG: TOB051

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	GCSEMI	ME	MSSEMI	MSVOA	WC
R1	0509772-001	X	X			
R1 (0-2)	0509772-002	X	X			
R1 (2-4)	0509772-003	X	X		X	
R1 (4-6)	0509772-004	X	X			
R1 (6-8)	0509772-005	X	X	X	X	X
R1 (8-10)	0509772-006	X	X		X	
R1 (18-20)	0509772-007	X	X			
R5 (0-2)	0509772-008	X	X			
R5 (2-4)	0509772-009	X	X			
R5 (4-6)	0509772-010	X	X	X	X	X
R6 (0-2)	0509772-011	X	X			
R6 (2-4)	0509772-012	X	X		X	
R6 (4-6)	0509772-013	X	X			
FB051	0509772-014	X	X	X	X	X
TB051	0509772-015				X	
R3 (0-2)	0509827-001	X	X			
R3 (2-4)	0509827-002	X	X	X	X	X
R3 (4-6)	0509827-003	X	X			
R3 (8-10)	0509827-004	X	X		X	
R5 (6-8)	0509827-005	X	X	X	X	X
R5 (8-10)	0509827-006	X	X			
TB51	0509827-007				X	

CLP, ~~Non-CLP~~ (Please indicate year of protocol) ASP B 10/95  
 TCL/TAL, HSL, Priority Pollutant,  
 RJS  
 10/12/05

TOB051 A3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND  
ANALYTICAL REQUIREMENT SUMMARY

SDG: TOB052

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	GCSEMI	ME	MSSEMI	MSVOA	WC
28-30 R1	0509883-001	X	X		X	
38-40 R1	0509883-002	X	X			
48-50 R1	0509883-003	X	X		X	
58-60 R1	0509883-004	X	X			
FB52	0509883-005	X	X	X	X	X
TB	0509883-006				X	
R3	0509947-001	X	X			
R3 (18-20)	0509947-002	X	X			
R3 (30-32)	0509947-003	X	X		X	
R3 (38-40)	0509947-004	X	X			
R3 (48-50)	0509947-005	X	X	X	X	X
R3 (58-60)	0509947-006	X	X			
R6 (6-8)	0509947-007	X	X	X	X	X
R6 (8-10)	0509947-008	X	X		X	
R6 (20-22)	0509947-009	X	X			
R6 (28-30)	0509947-010	X	X		X	
R6 (38-40)	0509947-011	X	X			
R6 (48-50)	0509947-012	X	X		X	
R6 (58-60)	0509947-013	X	X			
852	0509947-014				X	

CLP, ~~Non-CLP~~ (Please indicate year of protocol) ASP B10195  
TCL/TAL, HSL, Priority Pollutant,

JSW 10/12/05

TOB052 S3

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND  
ANALYTICAL REQUIREMENT SUMMARY

SDG: TOB053

Analytical Requirements

Customer Sample Code	Laboratory Sample Code	GCSEMI	ME	MSSEMI	MSVOA	WC
CAMW5	0510109-001	X	X	X	X	X
FB53	0510109-002	X	X	X	X	X
TB	0510109-003				X	

CLP, ~~Non-CLP~~ (Please indicate year of protocol) ASP B 10195  
TCL/TAL, HSL, Priority Pollutant,

SW 10/14/05

TOB053 S3

**STL Burlington**  
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Colchester, VT 05446

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www.stl-inc.com

October 19, 2005

Mr. Paul Lageraen  
H2M Group  
575 Broad Hollow Road  
Melville, NY 11747

Re: Laboratory Project No. 25000  
Case: 25000; SDG: 110080

Dear Mr. Lageraen:

Enclosed are the analytical results for samples received by STL Burlington on September 29 and 30, 2005. This report is sequentially numbered starting with page 1 and ending with page 0546.

Laboratory identification numbers were assigned, and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 09/29/05 ETR No: 110080			
640303	R1 10-12	09/27/05	Air
640304	Ambient 9-27-05	09/27/05	Air
640305	R1 28-30	09/27/05	Air
640306	R1 48-50	09/27/05	Air
Received: 09/30/05 ETR No: 110081			
640307	R-3 8-10	09/28/05	Air
640308	Ambient 9-28-05	09/28/05	Air
640309	R3 28-30	09/28/05	Air
640310	R3 48-50	09/28/05	Air
640311	R6 8-10	09/28/05	Air
640312	R6 28-30	09/28/05	Air
640313	R6 48-50	09/28/05	Air

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

**Method TO-15 – Volatile Organics:**

The analyses of the field samples R3 8-10, R3 28-30, R3 48-50, R6 8-10, R6 28-30 and R6 48-50 were accomplished at dilutions in order to provide quantification of all target analytes within the calibrated range of instrument response. The results were within the calibration range of the instrument.

The original analyses of the field samples R1 28-3, R1 10-12 and R1 48-50 were accomplished at dilutions in order to provide quantification of all target analytes within the calibrated range of instrument response. The results of the original dilution analyses exhibited concentrations of select target compounds that exceeded the calibration range. Consequently, further dilution analyses were performed for these samples, yielding results that were within the calibration range of the instrument. Both sets of data have been presented in this case submittal.

The analyses of the blank spike samples designated BDWE LCS, BDWF LCS and VHEA LCS and the associated blank spike duplicate samples exhibited percent recoveries for select target compounds that were outside of the control limits. The results for relative percent differences in the interanalysis comparisons for all blank spike duplicate samples were within the established control limits in each case. All outliers are presented on the analytical Form 3.

The responses for the target compounds tert-Butyl Alcohol, Acetone and Isopropyl Alcohol in select continuing calibration check acquisitions exceeded the maximum percent difference criterion. Acetone was detected in the sample R1 48-50. Isopropyl Alcohol was detected in R2 8-10, R3 28-30, R3 48-50, R6 8-10, R6 28-30 and R6 48-50.

An additional qualifier was utilized in several of the analyses of the samples in this delivery group.

Z = Freon 22 co-eluted with Dichlorodifluoromethane. The laboratory suspects that the estimated value that was reported for Freon 22 may be biased high. The quantitation process uses the area of the peak to calculate the result, which, in these cases also includes Dichlorodifluoromethane.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,



Ron Pentkowski  
Project Manager

Enclosure

# H2M LABS, INC.

**SDG NARRATIVE FOR PCB ANALYSES  
SAMPLES RECEIVED: 10/4/05  
SDG NO.: TOB053**

For Samples:

CAMW5 MS/MSD  
FB53

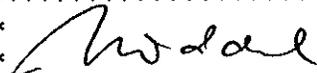
The above water sample and a field blank were prepared and analyzed for PCBs by EPA methods 3520C and 8082.

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

- The samples were cleaned up with concentrated sulfuric acid.
- Sample CAMW5 was analyzed as the matrix spike/matrix spike duplicate.
- Positives are reported to the practical detection limit of ½ of the reporting limits.
- A table of codes used for corrections and manual integration is presented before the sample reports.

**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: October 12, 2005

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Ursula Middel  
Technical Manager

# H2M LABS, INC.

SDG NARRATIVE FOR METALS ANALYSIS  
SAMPLES RECEIVED: 10/4/05  
SDG NO.: TOB053

For Samples:

CAMW5 MS/MSD  
FB53

The above samples were received by H2M Labs, Inc. on 10/4/05 for select metals and cyanide analysis.

Samples were prepared and analyzed using EPA methods 6010B with a TJA61E Trace ICP instrument, method 245.1 with a Leeman HYDRA mercury analyzer, and cyanide method 335.2.

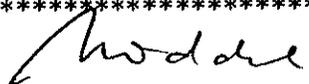
Sample CAMW5 was utilized for QC analysis and reporting.

ICP serial dilution analysis of sample CAMW5 did not meet acceptance criteria for aluminum and sodium. Results for these metals were reported with the qualifier "E" on Forms 1 and 9.

No other 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: October 12, 2005

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Ursula Middel  
Technical Manager

# H2M LABS, INC.

**SDG NARRATIVE FOR WET CHEMISTRY  
SAMPLES RECEIVED: 10/4/05  
SDG NO.: TOB053**

For Samples:

CAMW5 MS/MSD  
FB53

Two water samples were received by H2M Labs, Inc. on 10/4/05 for select wet chemistry analysis.

Samples were prepared and analyzed using the following method:

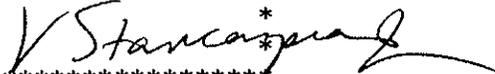
Hexavalent chromium                      EPA SW7196

Sample CAMW5 was utilized for duplicate and spike 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: October 12, 2005

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Vincent Stancampiano  
Vice President

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TOB053 S25

# H2M LABS, INC.

**SDG NARRATIVE FOR VOLATILES ANALYSES  
SAMPLES RECEIVED: 9/21/05  
SDG #: TOB047**

For Samples:

- P9 (8-10)
- Q7 (8-10)
- Q8 (8-10)
- Q9 (8-10) MS/MSD
- TB47
- FB47

The above samples and blanks were analyzed for a specific list of volatile organics by EPA method 8260B in accordance with the NYSDEC ASP, Rev. 10/95.

All QC data and calibrations met the requirements of the protocol, and no problems were encountered with sample analysis.

Sample Q9 (8-10) was analyzed as the matrix spike/matrix spike duplicate (MS/MSD).

Low levels (under the PQL) of methylene chloride was present in the method blank. A "B" qualifier is applied to this analyte if present in the samples associated with the blank.

Carbon tetrachloride and bromoform had RSD's greater than 20.5% in the unheated initial calibration of 9/23/05. Vinyl chloride and 4-bromofluorobenzene had % D's greater than 25% in the unheated continuing calibration of 9/23/05 (HP 5973-1) and the heated continuing calibration of 9/23/05 (HP 5970-3), respectively.

**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: October 4, 2005

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Joann M. Slavin  
Senior Vice President

TOB047 S22

# H2M LABS, INC.

## SDG NARRATIVE FOR SEMIVOLATILES ANALYSES SAMPLES RECEIVED: 9/21/05 SDG #: TOB047

For Samples:

FB47  
P9 (8-10)  
Q7 (8-10)  
Q8 (8-10)  
Q9 (8-10) MS/MSD

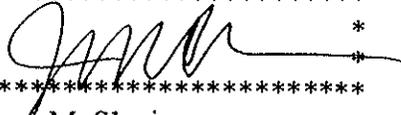
The above water samples and field blank were analyzed for the TCL list of semivolatile analytes by EPA method 8270C in accordance with the NYSDEC ASP, Rev. 10/95.

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 Q9 (8-10) was analyzed as the matrix spike/matrix spike duplicate (MS/MSD).
- 2,4-dinitrotoluene had a high recovery in both the matrix spike and the matrix spike duplicate. 4-nitrophenol and pentachlorophenol had a high recovery in the matrix spike blank. These recoveries were however within our in-house limits. Sample Q9 (8-10) had a high surrogate recovery for 2,4,6-tribromophenol. All recoveries were acceptable in the matrix spike and the matrix spike duplicate.
- The soil method blank of 9/23/05 contained TIC's, which were a secondary contamination from the GPC system. These analytes are flagged with a "B" qualifier if present in the associated samples. TIC's identified as "unknown alkanes" are presented on the TIC form 1 but are not included in the total number of TIC's found.
- Pentachlorophenol exceeded 25.6 % D in the continuing calibration of 9/26/05.

**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: September 30, 2005

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Joann M. Slavin  
Senior Vice President

SDG NARRATIVE FOR PCB ANALYSES  
SAMPLES RECEIVED: 9/21/05  
SDG NO.: TOB047

Page 1 of 2

For Samples:

FB47	Q7 (2-4)	Q8 (4-6)
P9 (0-2)	Q7 (4-6)	Q8 (8-10)
P9 (2-4)	Q7 (8-10)	Q9 (0-2)
P9 (4-6)	Q8	Q9 (2-4)
P9 (8-10)	Q8 (0-2)	Q9 (4-6)
Q7 (0-2)	Q8 (2-4)	Q9 (8-10) MS/MSD

The above soil samples and a field blank were prepared and analyzed for PCBs by EPA methods 3545 / 3510B and 8082.

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

- All soil samples were cleaned up with concentrated sulfuric acid and were subjected to sulfur cleanup with TBA.
- Sample Q9 (8-10) was analyzed as the matrix spike/matrix spike duplicate. The sample contained AR1242, which has a pattern very similar to the AR1016 spike that was added for MS/MSD spiking. The AR1242 concentration in the sample is subtracted for computation of the spike recovery.
- On form 1 of the MS and MSD, the sum of the two aroclors is reported as AR1016, and the result of AR1242 is flagged with the qualifier "Y" to indicate the concentration is included in the AR1016 result.
- QC limits for AR1016 and AR1260 do not apply, because the spiking level was not a multiple of the sample concentration.
- The surrogate recovery for DCB in sample Q8 (0-2)DL is above the advisory QC limit on both analytical columns.
- Since only aroclors were analyzed, the initial calibrations and continuous calibrations for pesticides required by the ASP, were replaced by calibrations with AR1660. %D for all continuous calibrations were under 25%.
- The ASP protocol mandates an analysis of the standards for all positive aroclors within 72 hours, but does not specify any mandatory %D for the response. The analysis of AR125402 shows a high %D of 31.6% on column RTX-CLP1. Based on that, data for AR1254 on that column are believed to be biased high. All quantifications reported for that aroclor were derived from the other column, RTX-CLP2.
- %D is above 25% for TCX in AR166015 on column RTX-CLP1 and for DCB in AR124202 on column RTX-CLP2.

# H2M LABS, INC.

## SDG NARRATIVE FOR METALS ANALYSIS SAMPLES RECEIVED: 9/21/05 SDG NO.: TOB047

For Samples:

FB47	Q8
P9 (0-2)	Q8 (0-2)
P9 (2-4)	Q8 (2-4)
P9 (4-6)	Q8 (4-6)
P9 (8-10)	Q8 (8-10)
Q7 (0-2)	Q9 (0-2)
Q7 (2-4)	Q9 (2-4)
Q7 (4-6)	Q9 (4-6)
Q7 (8-10)	Q9 (8-10) MS/MSD

One water sample and seventeen soil samples were received by H2M Labs, Inc. on 9/21/05 for select metals analysis.

Samples were prepared and analyzed using EPA methods 6010B with a TJA61E Trace ICP instrument, 245.1/245.5 with a Leeman HYDRA mercury analyzer and cyanide method 335.2.

Sample Q9 (8-10) was utilized for QC analysis and reporting.

Spike analysis did not recover within 75-125% for iron. Since the sample value was greater than four times the spike concentration, post spikes and data qualifiers were not required.

Spike analysis did not recover within acceptance ranges for selenium, antimony and manganese. The sample was post-spiked, reanalyzed recovering at 125.7% for antimony, 98.5% for manganese and 154.6% for selenium. Associated data were reported flagged "N" on forms 1 and 5A.

ICP serial dilution analysis did not reproduce within acceptance ranges for potassium. Potassium data was reported flagged "E" on forms 1 and 9.

ICP run of 9/22/05 was not used for iron reporting due to continuous calibration recoveries. Samples were reanalyzed for iron on 10/3/05 and reported.

No other 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.**

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Vincent Stancampiano  
Vice President

Date Reported: October 5, 2005

TOB047 S25

# H2M LABS, INC.

**SDG NARRATIVE FOR WET CHEMISTRY  
SAMPLES RECEIVED: 9/21/05  
SDG NO.: TOB047**

For Samples:

P9 (0-2)	Q8
P9 (2-4)	Q8 (0-2)
P9 (4-6)	Q8 (2-4)
P9 (8-10)	Q8 (4-6)
Q7 (0-2)	Q8 (8-10)
Q7 (2-4)	Q9 (0-2)
Q7 (4-6)	Q9 (2-4)
Q7 (8-10)	Q9 (4-6)
FB47	Q9 (8-10) MS/MSD

One water sample and seventeen soil samples were received by H2M Labs, Inc. on 9/21/05 for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Percent Moisture	ASTM D2216
Hexavalent Chromium	EPA 7196

Sample Q9 (8-10) was utilized for duplicate and spike QC analysis and reporting.

Samples were diluted as required to keep instrument readings within calibration ranges.

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: October 4, 2005

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\* *V Stancampiano* \*  
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Vincent Stancampiano  
Vice President

TOB047 S26

**SDG NARRATIVE FOR VOLATILES ANALYSES  
SAMPLES RECEIVED: 9/21/05  
SDG #: TOB048**

For Samples:

- Q4 (8-10)
- Q5 (8-10)
- Q6 (8-10) MS/MSD
- FB48

The above samples and blanks were analyzed for a specific list of volatile organics by EPA method 8260B in accordance with the NYSDEC ASP, Rev. 10/95.

All QC data and calibrations met the requirements of the protocol, and no problems were encountered with sample analysis.

Sample Q6 (8-10) was analyzed as the matrix spike/matrix spike duplicate (MS/MSD).

Low levels (less than the PQL) of methylene chloride were present in the method blanks. A "B" qualifier is applied to this analyte if present in the samples associated with this blank.

Carbon tetrachloride and bromoform had RSD's greater than 20.5% in the unheated initial calibration of 9/23/05. Vinyl chloride and 4-bromofluorobenzene had percent D's greater than 25% in the continuing calibration of (HP5973-1) 9/23/05 unheated and (HP5970-3) 9/23/05 heated, respectively.

**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: October 4, 2005

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Joann M. Slavin  
Senior Vice President

# H2M LABS, INC.

**SDG NARRATIVE FOR SEMIVOLATILES ANALYSES  
SAMPLES RECEIVED: 9/21/05  
SDG #: TOB048**

For Samples:

FB48  
Q4 (8-10)  
Q5 (8-10)  
Q6 (8-10) MS/MSD

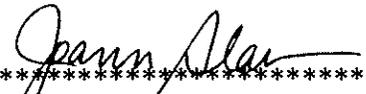
The above water samples and field blank were analyzed for the TCL list of semivolatile analytes by EPA method 8270C in accordance with the NYSDEC ASP, Rev. 10/95.

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 Q6 (8-10) was analyzed as the matrix spike/matrix spike duplicate (MS/MSD). 2,4-dinitrotoluene had a high recovery in both the matrix spike and the matrix spike duplicate. Phenol had a high recovery in the matrix spike duplicate. 4 nitrophenol and pentachlorophenol had a high recovery in the matrix spike blank. These recoveries were however within our in-house recovery limits.
- All samples had a high surrogate recovery for 2,4,6-tribromophenol.
- The soil method blank of 9/23/05 contained TIC's, which were a secondary contamination from the GPC system. These analytes are flagged with a "B" qualifier if present in the associated sample.
- TIC's identified as "unknown alkanes" are presented on the TIC form 1 but are not included in the total number of TIC's found.
- A "Z" qualifier is applied to the TIC erucylamide in the aqueous samples. This analyte was present in the water method blank however under the reportable level.
- Pentachlorophenol exceeded in the initial calibration of 9/26/05.

**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: October 4, 2005

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\* **Joann M. Slavin** \*  
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Joann M. Slavin  
Senior Vice President

TOB048 S23

**SDG NARRATIVE FOR PCB ANALYSES  
SAMPLES RECEIVED: 9/26/05  
SDG NO.: TOB048**

Page 1 of 2

For Samples:

FB48	Q4 (4-6)	Q6
P4 (0-2)	Q4 (8-10)	Q6 (0-2)
P4 (2-4)	Q5 (0-2)	Q6 (2-4)
P4 (4-6)	Q5 (2-4)	Q6 (4-6)
Q4 (0-2)	Q5 (4-6)	Q6 (8-10) MS/MSD
Q4 (2-4)	Q5 (8-10)	

The above soil samples and a field blank were prepared and analyzed for PCBs by EPA methods 3545 / 3510B and 8082.

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

- All soil samples were cleaned up with concentrated sulfuric acid and were subjected to sulfur cleanup with TBA.
- Sample Q6 (8-10) was analyzed as the matrix spike/matrix spike duplicate. The sample contained AR1242, which has a pattern very similar to the AR1016 spike that was added for MS/MSD spiking. The AR1242 concentration in the sample is subtracted for computation of the spike recovery.
- On form 1 of the MS and MSD, the sum of the two aroclors is reported as AR1016, and the result of AR1242 is flagged with the qualifier "Y" to indicate the concentration is included in the AR1016 result.
- Since only aroclors were analyzed, the initial calibrations and continuous calibrations for pesticides required by the ASP, were replaced by calibrations with AR1660. %D for all continuous calibrations were under 25%.
- The ASP protocol mandates an analysis of the standards for all positive aroclors within 72 hours, but does not specify any mandatory %D for the response. The analysis of AR125403 in sequence 9/22/05 shows a high %D of 38 % on column RTX-CLP1. Based on that, data for AR1254 on that column are believed to be biased high. All quantifications reported for that aroclor in that sequence were derived from the other column, RTX-CLP2.
- %D is above 25% for TCX in AR124203 on column RTX-CLP1.

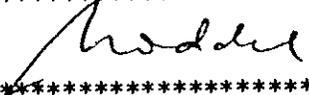
**SDG NARRATIVE FOR PCB ANALYSES  
SAMPLES RECEIVED: 9/26/05  
SDG NO.: TOB048**

Page 2 of 2

- One sample exceeded the calibration range for targeted analytes and was reanalyzed at a dilution. Both sets of data are reported.
- In dilutions of 1:10 and above, no surrogate recoveries are reported, because the surrogate spike is diluted out.
- AR1242 in the samples showed ratios of congeners different from those found in the standards, due to weathering. This bias has been taken into account for the selection of the quantification peaks, to obtain a representative average result.
- In samples with positive aroclors, low levels of other aroclors could be masked due to the overlap of patterns. These other aroclors are flagged with the qualifier X.
- The qualifier "Z" is used for AR1254 in presence of higher levels of AR1242 to indicate that the result for AR1254 is biased high due to the overlap of patterns.
- Positives are reported to the practical detection limit of ½ of the reporting limits.
- A table of codes used for corrections and manual integration is presented before the sample reports.

**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: October 8, 2005

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Ursula Middel  
Technical Manager

# H2M LABS, INC.

SDG NARRATIVE FOR METALS ANALYSIS  
SAMPLES RECEIVED: 9/21/05  
SDG NO.: TOB048

For Samples:

P4 (0-2)    Q5 (4-6)  
P4 (2-4)    Q5 (8-10)  
P4 (4-6)    Q6  
Q4 (0-2)    Q6 (0-2)  
Q4 (2-4)    Q6 (2-4)  
Q4 (4-6)    Q6 (4-6)  
Q4 (8-10)    Q6 (8-10) MS/MSD  
Q5 (0-2)    FB48  
Q5 (2-4)

One water sample and sixteen soil samples were received by H2M Labs, Inc. on 9/21/05 for select cyanide and metals analysis.

Samples were prepared and analyzed using EPA methods 6010B with a TJA61E Trace ICP instrument, 245.1/245.5 with a Leeman HYDRA mercury analyzer and cyanide method 335.2.

Sample Q6 (8-10) was utilized for QC analysis and reporting.

Spike analysis did not recover within 75-125% for iron and lead. Since the sample value was greater than four times the spike concentration, post spikes and data qualifiers were not required.

Spike analysis did not recover within acceptance ranges for chromium, antimony and manganese. The sample was post-spiked, reanalyzed and recovered acceptably. Antimony, chromium and manganese data were reported flagged "N" on forms 1 and 5A.

Duplicate analysis did not reproduce within acceptance ranges for chromium and copper. Chromium and copper data were reported flagged "\*" on forms 1 and 6.

ICP serial dilution analysis did not reproduce within acceptance ranges for copper and potassium. Copper and potassium data were reported flagged "E" on forms 1 and 9.

No other 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.**

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\* *V Stancampiano* \*  
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Date Reported: October 4, 2005

Vincent Stancampiano  
Vice President

TOB048 S26

# H2M LABS, INC.

**SDG NARRATIVE FOR WET CHEMISTRY  
SAMPLES RECEIVED: 9/21/05  
SDG NO.: TOB048**

For Samples:

FB48	Q5 (2-4)
P4 (0-2)	Q5 (4-6)
P4 (2-4)	Q5 (8-10)
P4 (4-6)	Q6
Q4 (0-2)	Q6 (0-2)
Q4 (2-4)	Q6 (2-4)
Q4 (4-6)	Q6 (4-6)
Q4 (8-10)	Q6 (8-10) MS/MSD
Q5 (0-2)	

One water sample and sixteen soil samples were received by H2M Labs, Inc. on 9/21/05 for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Percent Moisture	ASTM D2216
Hexavalent Chromium	EPA 7196

Sample Q6 (8-10) was utilized for duplicate and spike QC analysis and reporting.

LCS analysis of 9/27/05 did not recover within 80-120%. LCS analysis recovered within H2M in-house calculated limits of 56.3-126%.

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: October 6, 2005

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Vincent Stancampiano  
Vice President

TOB048 S27

# H2M LABS, INC.

**SDG NARRATIVE FOR VOLATILES ANALYSES  
SAMPLES RECEIVED: 9/22/05  
SDG #: TOB049**

For Samples:

- I13 (8-10)
- J11 (0-2)
- O9 (2-4) MS/MSD
- P4 (8-10)
- FB49

The above samples and blanks were analyzed for a specific list of volatile organics by EPA method 8260B in accordance with the NYSDEC ASP, Rev. 10/95.

All QC data and calibrations met the requirements of the protocol, and no problems were encountered with sample analysis.

Sample O9 (2-4) was analyzed as the matrix spike/matrix spike duplicate (MS/MSD). The internal standard area count for d5-chlorobenzene was low in the matrix spike sample. All area counts were acceptable in the parent sample and the matrix spike duplicate.

Low levels (under the PQL) of methylene chloride were present in the method blanks associated with these samples. A "B" qualifier is applied to this analyte if present in a sample associated with the blank.

An "X" qualifier is applied to TIC's, which appear to be due to column bleed. TIC's identified as "unknown alkanes" are listed on the TIC form I. These TIC's are however not counted in the number of TIC's found.

Carbon tetrachloride and bromoform had an RSD greater than 20.5% in the unheated initial calibration of 9/23/05.

Vinyl chloride and 4-bromofluorobenzene had % D's greater than 25% in the unheated continuing calibration of 9/23/05 (HP5973-1) and the heated continuing calibration of 9/23/05 (HP5970-3), respectively.

**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: October 4, 2005

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Joann M. Slavin  
Senior Vice President

TOB049 S23

# H2M LABS, INC.

## SDG NARRATIVE FOR SEMIVOLATILES ANALYSES SAMPLES RECEIVED: 9/22/05 SDG #: TOB049

For Samples:

FB49  
I13 (8-10)  
J11 (0-2)  
O9 (2-4) MS/MSD  
P4 (8-10)

The above water samples and field blank were analyzed for the TCL list of semivolatile analytes by EPA method 8270C in accordance with the NYSDEC ASP, Rev. 10/95.

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 O9 (2-4) was analyzed as the matrix spike/matrix spike duplicate (MS/MSD). 4-chloro-methylphenol, 2,4-dinitrotoluene and pyrene have high percent recoveries in both the matrix spike and the matrix spike duplicate. 4 nitrophenol and pentachlorophenol had a high recovery in the matrix spike blank. These recoveries were however within our in-house recovery limits.
- Sample P4 (8-10) had a high surrogate recovery for 2,4,6-tribromophenol.
- The soil method blank of 9/23/05 contained TIC's, which were secondary contamination from the GPC system. These analytes are flagged with a "B" qualifier if present in the associated samples. TIC's identified as "unknown alkanes" are presented on the TIC form I but are not included in the total number of TIC's found.
- A "Z" qualifier is applied to the TIC erucylamide in the aqueous sample. This analyte was present in the water method blank however under the reportable level.
- A "Y" qualifier is applied to TIC's whose concentration level may be biased low due to interference with the total area count of the internal standard used to quantify the peak.
- An "X" qualifier is applied to TIC's, which appear to be due to column bleed.
- Sample O9 (2-4) was reanalyzed at a dilution due to concentration levels of targeted analytes above the calibration range. Both sets of data are submitted.
- Pentachlorophenol exceeded 25% D in the continuing calibrations of 9/26/05 and 9/27/05.

**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: October 4, 2005

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Joann M. Slavin  
Senior Vice President

TOB049 S24

**SDG NARRATIVE FOR PCB ANALYSES  
SAMPLES RECEIVED: 9/22/05  
SDG NO.: TOB049**

Page 1 of 2

For Samples:

FB49	J11 (2-4)	O9 (0-2)
113 (0-2)	J11 (4-6)	O9 (2-4) MS/MSD
113 (2-4)	J11 (8-10)	O9 (4-6)
113 (4-6)	O4	O9 (8-10)
113 (8-10)	O4 (0-2)	P4 (8-10)
J11 (0-2)	O4 (2-4)	

The above soil samples and a field blank were prepared and analyzed for PCBs by EPA methods 3545 / 3510B and 8082.

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

- All soil samples were cleaned up with concentrated sulfuric acid and were subjected to sulfur cleanup with TBA.
- Sample O9 (2-4) was analyzed as the matrix spike/matrix spike duplicate. The sample contained AR1242, which has a pattern very similar to the AR1016 spike that was added for MS/MSD spiking. The AR1242 concentration in the sample is subtracted for computation of the spike recovery.
- On form 1 of the MS and MSD, the sum of the two aroclors is reported as AR1016, and the result of AR1242 is flagged with the qualifier "Y" to indicate the concentration is included in the AR1016 result.
- QC limits for AR1016 and AR1260 do not apply, because the spiking level was not a multiple of the sample concentration.
- Since only aroclors were analyzed, the initial calibrations and continuous calibrations for pesticides required by the ASP, were replaced by calibrations with AR1660. %D for all continuous calibrations were under 25%.
- %D is above 25% for TCX in AR124203 on column RTX-CLP.
- Four samples exceeded the calibration range for targeted analytes and were reanalyzed at a dilution. Both sets of data are reported.
- In dilutions of 1:10 and above, no surrogate recoveries are reported, because the surrogate spike is diluted out.
- AR1242 in the samples showed ratios of congeners different from those found in the standards, due to weathering. This bias has been taken into account for the selection of the quantification peaks, to obtain a representative average result.

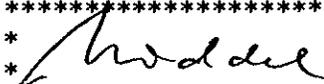
**SDG NARRATIVE FOR PCB ANALYSES  
SAMPLES RECEIVED: 9/22/05  
SDG NO.: TOB049**

Page 2 of 2

- In samples with positive aroclors, low levels of other aroclors could be masked due to the overlap of patterns. These other aroclors are flagged with the qualifier X.
- In samples with high concentrations of AR1242, late AR1242 congeners are quantified "as" AR1254 and AR1260 due to the overlap of congeners. Unless the amount detected for AR1254 and AR1260 exceeds the amount of the anticipated AR1242 contribution, AR1254 and AR1260 are reported as not found with the qualifier "U" and "X".
- The qualifier "Z" is used for AR1254 in presence of higher levels of AR1242 to indicate that the result for AR1254 is biased high due to the overlap of patterns.
- Positives are reported to the practical detection limit of 1/2 of the reporting limits.
- A table of codes used for corrections and manual integration is presented before the sample reports.

**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: October 11, 2005

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Ursula Middel  
Technical Manager

# H2M LABS, INC.

**SDG NARRATIVE FOR METALS ANALYSIS  
SAMPLES RECEIVED: 9/22/05  
SDG NO.: TOB049**

For Samples:

I13 (0-2) O4  
I13 (2-4) O4 (0-2)  
I13 (4-6) O4 (2-4)  
I13 (8-10) O9 (0-2)  
J11 (0-2) O9 (2-4) MS/MSD  
J11 (2-4) O9 (4-6)  
J11 (4-6) O9 (8-10)  
J11 (8-10) P4 (8-10)  
FB49

One water sample and sixteen soil samples were received by H2M Labs, Inc. on 9/22/05 for select metals analysis.

Samples were prepared and analyzed using EPA methods 6010B with a TJA61E Trace ICP instrument, 245.1/245.5 with a Leeman HYDRA mercury analyzer and cyanide method 335.2.

Sample O9 (2-4) was utilized for QC analysis and reporting.

ICP run of 9/26/05 was utilized for all analysis except thallium. Thallium ICS A STD did not meet acceptance criteria. Samples were reanalyzed for thallium on 9/30/05.

ICP run of 9/27/05 did not meet acceptance criteria and was not utilized for reporting.

ICP post spike samples were analyzed on 10/30/05.

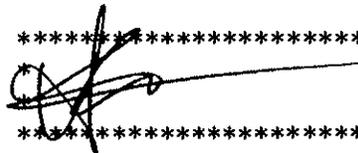
Spike analysis did not reproduce within 75-125% for iron, lead, mercury and zinc. Since the sample value was greater than four times the spike concentration, post spikes and data qualifiers were not required.

Spike analysis did not recover within acceptance ranges for arsenic, cadmium, chromium and copper. The samples were post spiked, reanalyzed and recovered at 119.4% for arsenic, -10.4% for cadmium, 73% for chromium and 50.6% for copper. Associated data were reported flagged "N" on forms 1 and 5A.

Duplicate analysis did not reproduce within acceptance ranges for aluminum, barium, cadmium, calcium, chromium, copper, lead, nickel and zinc. Associated results were reported flagged "\*" on forms 1 and 6.

No other 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.**

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Vincent Stancampiano  
Vice President

Date Reported: October 6, 2005

TOB049 S27

# H2M LABS, INC.

**SDG NARRATIVE FOR WET CHEMISTRY  
SAMPLES RECEIVED: 9/22/05  
SDG NO.: TOB049**

For Samples:

I13 (0-2) O4  
I13 (2-4) O4 (0-2)  
I13 (4-6) O4 (2-4)  
I13 (8-10) O9 (0-2)  
J11 (0-2) O9 (2-4) MS/MSD  
J11 (2-4) O9 (4-6)  
J11 (4-6) O9 (8-10)  
J11 (8-10) P4 (8-10)  
FB49

One water sample and sixteen soil samples were received by H2M Labs, Inc. on 9/22/05 for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Percent Moisture	ASTM D2216
Hexavalent Chromium	EPA 7196

Sample O9 (2-4) was utilized for duplicate and spike QC analysis and reporting.

Laboratory control standard (LCS) recovered within H2M in-house acceptance limits of 53.6-126%.

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: October 6, 2005

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Vincent Stancampiano  
Vice President

TOB049 S28

# H2M-LABS, INC.

**SDG NARRATIVE FOR VOLATILES ANALYSES**  
**SAMPLES RECEIVED: 9/23/05**  
**SDG #: TOB050**

For Samples:

114 (0-2) MS/MSD  
R2 (2-4)  
R4 (6-8)  
FB50

The above samples and blanks were analyzed for a specific list of volatile organics by EPA method 8260B in accordance with the NYSDEC ASP, Rev. 10/95.

All QC data and calibrations met the requirements of the protocol, and no problems were encountered with sample analysis.

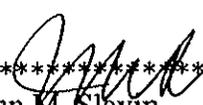
Sample 114 (0-2) was analyzed as the matrix spike/matrix spike duplicate (MS/MSD).

Low levels (less than the PQL) of methylene chloride was present in the soil method blank. This analyte was flagged with a "B" qualifier if present in the associated samples.

An "X" qualifier is applied to TIC's, which appear to be due to column bleed.

**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: October 7, 2005

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Joann M. Slavin  
Senior Vice President

TOB050 S22

# H2M LABS, INC.

**SDG NARRATIVE FOR SEMIVOLATILES ANALYSES  
SAMPLES RECEIVED: 9/23/05  
SDG #: TOB050**

For Samples:

FB50  
I14 (0-2) MS/MSD  
R2 (2-4)  
R4 (6-8)

The above samples and field blank were analyzed for the TCL list of semivolatile analytes by EPA method 8270C in accordance with the NYSDEC ASP, Rev. 10/95.

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 I14 (0-2) was analyzed as the matrix spike/matrix spike duplicate (MS/MSD). All percent recoveries and RPD's were within QC limits.
- Pentachlorophenol exceeded 25% D in the continuing calibrations of 9/29/05 and 10/3/05.
- The matrix spike/matrix spike duplicate sample was re-extracted within holding times due to high percent recovery for the LCS for pentachlorophenol. Pentachlorophenol is still high in the LCS at 118% recovery. This recovery is however within in-house QC limits. 2,4- dinitrotoluene is above the QC limits in the MSD. 2,4,6- tribromophenol is above the QC limits in the MSD. d14-4- terphenyl is low in the FB50.

**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: October 7, 2005

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Joan M. Slavin  
Senior Vice President

TOB050 S23

# H2M LABS, INC.

**SDG NARRATIVE FOR PCB ANALYSES  
SAMPLES RECEIVED: 9/23/05  
SDG NO.: TOB050**

For Samples:

FB50	I14 (8-10)	R4 (0-2)
I14	R2 (0-2)	R4 (2-4)
I14 (0-2) MS/MSD	R2 (2-4)	R4 (4-6)
I14 (2-4)	R2 (4-6)	R4 (6-8)
I14 (4-6)	R2 (8-10)	R4 (8-10)

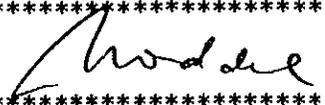
The above soil samples and a field blank were prepared and analyzed for PCBs by EPA methods 3545 / 3510B and 8082.

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

- All soil samples were cleaned up with concentrated sulfuric acid and were subjected to sulfur cleanup with TBA.
- Sample I14 (0-2) was analyzed as the matrix spike/matrix spike duplicate.
- Positives are reported to the practical detection limit of ½ of the reporting limits.
- A table of codes used for corrections and manual integration is presented before the sample reports.

**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: October 7, 2005

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Ursula Middel  
Technical Manager

# H2M LABS, INC.

**SDG NARRATIVE FOR METALS ANALYSIS  
SAMPLES RECEIVED: 9/23/05  
SDG NO.: TOB050**

For Samples:

FB50	R2 (4-6)
I14	R2 (8-10)
I14 (0-2) MS/MSD	R4 (0-2)
I14 (2-4)	R4 (2-4)
I14 (4-6)	R4 (4-6)
I14 (8-10)	R4 (6-8)
R2 (0-2)	R4 (8-10)
R2 (2-4)	

One water sample and fourteen soil samples were received by H2M Labs, Inc. on 9/23/05 for select metals analysis.

Samples were prepared and analyzed using EPA methods 6010B with a TJA61E Trace ICP instrument, 245.1/245.5 with a Leeman HYDRA mercury analyzer and cyanide method 335.2.

Sample I14 (0-2) was utilized for QC analysis and reporting.

Spike analysis did not recover within 75-125% for iron. Since the sample value was greater than four times the spike concentration, post spikes and data qualifiers were not required.

Duplicate analysis did not reproduce within acceptance ranges for chromium. Chromium data was reported flagged "\*" on forms 1 and 6.

ICP serial dilution analysis did not reproduce within acceptance ranges for calcium, magnesium and zinc. Associated data were reported flagged "E" on forms 1 and 9.

The initial ICP run of 9/27/05 did not meet acceptance criteria. The samples were reanalyzed on 9/28/05 and utilized for reporting.

No other 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.**

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Date Reported: October 7, 2005

Vincent Stancampiano  
Vice President

TOB050 S25

# H2M LABS, INC.

**SDG NARRATIVE FOR WET CHEMISTRY  
SAMPLES RECEIVED: 9/23/05  
SDG NO.: TOB050**

For Samples:

I14	R2 (4-6)
I14 (0-2) MS/MSD	R2 (8-10)
I14 (2-4)	R4 (0-2)
I14 (4-6)	R4 (2-4)
I14 (8-10)	R4 (4-6)
R2 (0-2)	R4 (6-8)
R2 (2-4)	R4 (8-10)
FB50	

One water sample and fourteen soil samples were received by H2M Labs, Inc. on 9/23/05 for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Percent Moisture	ASTM D2216
Hexavalent Chromium	EPA 7196

Sample I14 (0-2) was utilized for duplicate and spike QC analysis and reporting.

Hexavalent chromium laboratory control standard (LCS) recovery was not within 80-120%. The LCS recovery was within H2M in-house control limits of 53.6-126%.

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: October 7, 2005

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Vincent Stancampiano  
Vice President

TOB050 S26

# H2M LABS, INC.

**SDG NARRATIVE FOR VOLATILES ANALYSES  
SAMPLES RECEIVED: 9/23/05 & 9/26/05  
SDG #: TOB051**

For Samples:

- FB051
- R1 (2-4)
- R1 (6-8)
- R1 (8-10)
- R3 (2-4)
- R3 (8-10)
- R5 (4-6) MS/MSD
- R5 (6-8)
- R6 (2-4)
- TB051
- TB51

The above samples and blanks were analyzed for a specific list of volatile organics by EPA method 8260B in accordance with the NYSDEC ASP, Rev. 10/95.

All QC data and calibrations met the requirements of the protocol, and no problems were encountered with sample analysis.

Sample R5 (4-6) was analyzed as the matrix spike/matrix spike duplicate (MS/MSD).

Low levels (less than the PQL) of methylene chloride was present in the soil method blank. This analyte was flagged with a "B" qualifier if present in the associated samples.

**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: October 10, 2005

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Joann M. Slavin  
Senior Vice President

**SDG NARRATIVE FOR SEMIVOLATILES ANALYSES  
SAMPLES RECEIVED: 9/23/05 & 9/26/05  
SDG #: TOB051**

For Samples:

FB051  
R1 (6-8)  
R3 (2-4)  
R5 (4-6) MS/MSD  
R5 (6-8)

The above water samples and field blank were analyzed for the TCL list of semivolatile analytes by EPA method 8270C in accordance with the NYSDEC ASP, Rev. 10/95.

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 R5 (4-6) was analyzed as the matrix spike/matrix spike duplicate (MS/MSD). The matrix spike / matrix spike duplicate sample was re-extracted, within holding times, due to high percent recovery for the LCS for pentachlorophenol. Pentachlorophenol is still high in the LCS at 118% recovery. This recovery is however within in-house Q.C. limits. Pentachlorophenol had a low percent recovery in the matrix spike duplicate sample hence a high RPD.
- Pentachlorophenol exceeded 25% D in the continuing calibrations of 9/29/05 and 10/3/05.
- The surrogate standard 4-terphenyl-d14 was low in sample FB051.
- The TIC erucylamide was present in the water method blank. This analyte was flagged with a "B" qualifier if present in the associated samples.

**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: October 10, 2005

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Joann M. Slavin  
Senior Vice President

# H2M LABS, INC.

## SDG NARRATIVE FOR PCB ANALYSES SAMPLES RECEIVED: 9/23/05 & 9/26/05 SDG NO.: TOB051

For Samples:

FB051	R1 (8-10)	R5 (4-6) MS/MSD
R1	R3 (0-2)	R5 (6-8)
R1 (0-2)	R3 (2-4)	R5 (8-10)
R1 (18-20)	R3 (4-6)	R6 (0-2)
R1 (2-4)	R3 (8-10)	R6 (2-4)
R1 (4-6)	R5 (0-2)	R6 (4-6)
R1 (6-8)	R5 (2-4)	

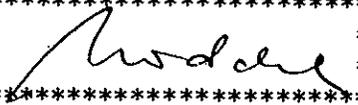
The above soil samples and a field blank were prepared and analyzed for PCBs by EPA methods 3545 / 3510B and 8082.

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

- All soil samples were cleaned up with concentrated sulfuric acid and were subjected to sulfur cleanup with TBA.
- Sample R5 (4-6) was analyzed as the matrix spike/matrix spike duplicate.
- Since only aroclors were analyzed, the initial calibrations and continuous calibrations for pesticides required by the ASP, were replaced by calibrations with AR1660. %D for all continuous calibrations were under 25%.
- In samples with positive aroclors, low levels of other aroclors could be masked due to the overlap of patterns. These other aroclors are flagged with the qualifier X.
- Positives are reported to the practical detection limit of 1/2 of the reporting limits.
- A table of codes used for corrections and manual integration is presented before the sample reports.

**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: October 8, 2005

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Ursula Middel  
Technical Manager

TOB051 A12

# H2M LABS, INC.

**SDG NARRATIVE FOR METALS ANALYSIS**  
**SAMPLES RECEIVED: 9/23/05 & 9/26/05**  
**SDG NO.: TOB051**

For Samples:

FB051	R3 (4-6)
R1	R3 (8-10)
R1 (0-2)	R5 (0-2)
R1 (18-20)	R5 (2-4)
R1 (2-4)	R5 (4-6) MS/MSD
R1 (4-6)	R5 (6-8)
R1 (6-8)	R5 (8-10)
R1 (8-10)	R6 (0-2)
R3 (0-2)	R6 (2-4)
R3 (2-4)	R6 (4-6)

One water sample and nineteen soil samples were received by H2M Labs, Inc. on 9/23/05 and 9/26/05 for select cyanide and metals analysis.

Samples were prepared and analyzed using EPA methods 6010B with a TJA61E Trace ICP instrument, 245.1/.5 with a Leeman HYDRA mercury analyzer and cyanide method 335.2.

Sample R5 (4-6) was utilized for QC analysis and reporting.

Spike analysis did not recover within 75-125% for iron. Since the sample value was greater than four times the spike concentration, post spike and data qualifiers were not required.

Spike analysis did not recover within acceptance ranges for manganese. The sample was post spiked, reanalyzed and recovered at 102.7%. Manganese data was reported flagged "N" on Forms 1 and 5A.

Duplicate analysis did not reproduce within acceptance ranges for chromium, iron and zinc. Associated data were reported flagged "\*" on Forms 1 and 6.

No other 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: October 10, 2005

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Vincent Stancampiano  
Vice President

# H2M LABS, INC.

**SDG NARRATIVE FOR WET CHEMISTRY  
SAMPLES RECEIVED: 9/23/05 & 9/26/05  
SDG NO.: TOB051**

For Samples:

FB051	R3 (4-6)
R1	R3 (8-10)
R1 (0-2)	R5 (0-2)
R1 (18-20)	R5 (2-4)
R1 (2-4)	R5 (4-6) MS/MSD
R1 (4-6)	R5 (6-8)
R1 (6-8)	R5 (8-10)
R1 (8-10)	R6 (0-2)
R3 (0-2)	R6 (2-4)
R3 (2-4)	R6 (4-6)

One water sample and nineteen soil samples were received by H2M Labs, Inc. on 9/23/05 & 9/26/05 for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Hexavalent chromium	EPA SW7196
Percent Moisture	ASTM D2216

Sample R5 (4-6) was utilized for duplicate and spike QC analysis and reporting.

Hexavalent chromium laboratory control sample (LCS) recovered within calculated acceptance limits of 53.6 – 126%.

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: October 10, 2005

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Vincent Stancampiano  
Vice President

**SDG NARRATIVE FOR VOLATILES ANALYSES  
SAMPLES RECEIVED: 9/27/05 & 9/29/05  
SDG #: TOB052**

For Samples:

- 28-30 R1
- 48-50 R1
- FB52
- R3 (30-32)
- R3 (48-50) MS/MSD
- R6 (6-8)
- R6 (8-10)
- R6 (28-30)
- R6 (48-50)
- TB
- TB52

The above samples and blanks were analyzed for a specific list of volatile organics by EPA method 8260B in accordance with the NYSDEC ASP, Rev. 10/95.

All QC data and calibrations met the requirements of the protocol, and no problems were encountered with sample analysis.

Sample R3 (48-50) was analyzed as the matrix spike/matrix spike duplicate (MS/MSD).

Low levels (less than the PQL) of methylene chloride was present in the soil method blank. This analyte was flagged with a "B" qualifier if present in the associated samples.

**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: October 12, 2005

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Joann M. Slavin  
Senior Vice President

**SDG NARRATIVE FOR SEMIVOLATILES ANALYSES  
SAMPLES RECEIVED: 9/27/05 & 9/29/05  
SDG #: TOB052**

For Samples:

FB52  
R3 (48-50) MS/MSD  
R6 (6-8)

The above samples and field blank were analyzed for the TCL list of semivolatile analytes by EPA method 8270C in accordance with the NYSDEC ASP, Rev. 10/95.

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 R3 (48-50) was analyzed as the matrix spike/matrix spike duplicate (MS/MSD). 2,4-dinitrotoluene is above the Q.C. limits in both the matrix spike and the matrix spike duplicate.
- Pentachlorophenol is above the Q.C. limits in LCS-14932 but within in-house Q.C. limits.
- Pentachlorophenol exceeded 25%D in the continuing calibration of 9/30/05 and 10/3/05. 4-methylphenol exceeded 25% D in the continuing calibration of 9/30/05
- An "X" qualifier is applied to TIC's which appear to be due to column bleed. The water method blank contained two TIC's. These analytes are flagged with a "B" qualifier if present in the associated sample.

**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: October 12, 2005

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Joann M. Slavin  
Senior Vice President

# H2M LABS, INC.

**SDG NARRATIVE FOR PCB ANALYSES**  
**SAMPLES RECEIVED: 9/27/05 & 9/29/05**  
**SDG NO.: TOB052**

For Samples:

28-30 R1	R3 (18-20)	R6 (28-30)
38-40 R1	R3 (30-32)	R6 (38-40)
48-50 R1	R3 (38-40)	R6 (48-50)
58-60 R1	R3 (48-50) MS/MSD	R6 (58-60)
FB52	R3 (58-60)	R6 (6-8)
R3	R6 (20-22)	R6 (8-10)

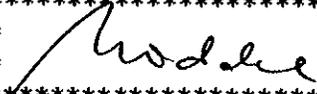
The above soil samples and a field blank were prepared and analyzed for PCBs by EPA methods 3545 / 3510B and 8082.

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

- All soil samples were cleaned up with concentrated sulfuric acid and were subjected to sulfur cleanup with TBA.
- Sample R3 (48-50) was analyzed as the matrix spike/matrix spike duplicate.
- Positives are reported to the practical detection limit of 1/2 of the reporting limits.
- A table of codes used for corrections and manual integration is presented before the sample reports.

**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: October 7, 2005

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Ursula Middel  
Technical Manager

# H2M LABS, INC.

## SDG NARRATIVE FOR METALS ANALYSIS SAMPLES RECEIVED: 9/27/05 & 9/29/05 SDG NO.: TOB052

For Samples:

28-30 R1	R3 (48-50) MS/MSD
38-40 R1	R3 (58-60)
48-50 R1	R6 (20-22)
58-60 R1	R6 (28-30)
FB52	R6 (38-40)
R3	R6 (48-50)
R3 (18-20)	R6 (58-60)
R3 (30-32)	R6 (6-8)
R3 (38-40)	R6 (8-10)

One water sample and seventeen soil samples were received by H2M Labs, Inc. on 9/27/05 and 9/29/05 for select cyanide and metals analysis.

Samples were prepared and analyzed using EPA methods 6010B with a TJA61E Trace ICP instrument, 245.1/5 with a Leeman HYDRA mercury analyzer and cyanide method 335.2.

Sample R3 (48-50) was utilized for QC analysis and reporting.

Spike analysis did not recover within 75-125% for iron. Since the sample value was greater than four times the spike concentration, post spike and data qualifiers were not required.

Spike analysis did not recover within acceptance ranges for antimony and selenium. The sample was post spiked, reanalyzed and recovered acceptably. Antimony and selenium data was reported flagged "N" on Forms 1 and 5A.

Duplicate analysis did not reproduce within acceptance ranges for aluminum, arsenic, chromium, iron, lead and zinc. Associated data were reported flagged "\*" on Forms 1 and 6.

ICP run of 10/4/05 was utilized for reporting all analytes except thallium. Continuous calibration verification (CCV4) did not meet acceptance criteria for thallium. Samples were reanalyzed for thallium along with the post spike samples on 10/5/05.

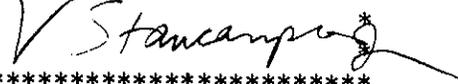
ICP serial dilution analysis of sample R3 (58-60) did not meet acceptance criteria for aluminum, potassium and zinc. Associated data were reported flagged "E" on Forms 1 and 9.

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

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Date Reported: October 12, 2005

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Vincent Stancampiano  
Vice President

# H2M LABS, INC.

**SDG NARRATIVE FOR WET CHEMISTRY  
SAMPLES RECEIVED: 9/27/05 & 9/29/05  
SDG NO.: TOB052**

For Samples:

28-30 R1	R3 (48-50) MS/MSD
38-40 R1	R3 (58-60)
48-50 R1	R6 (20-22)
58-60 R1	R6 (28-30)
FB52	R6 (38-40)
R3	R6 (48-50)
R3 (18-20)	R6 (58-60)
R3 (30-32)	R6 (6-8)
R3 (38-40)	R6 (8-10)

One water sample and seventeen soil samples were received by H2M Labs, Inc. on 9/27/05 & 9/29/05 for select wet chemistry analysis.

Samples were prepared and analyzed using the following methods:

Hexavalent chromium	EPA SW7196
Percent Moisture	ASTM D2216

Sample R3 (48-50) was utilized for duplicate and spike 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: October 12, 2005

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Vincent Stancampiano  
Vice President

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TOB052 S38

# H2M LABS, INC.

**SDG NARRATIVE FOR VOLATILES ANALYSES  
SAMPLES RECEIVED: 10/4/05  
SDG NO.: TOB053**

For Samples:

CAMW5 MS/MSD  
FB53  
TB

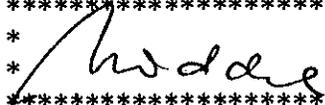
The above sample and blanks were analyzed for a specific list of volatile organics by EPA method 8260B in accordance with the NYSDEC ASP, Rev. 10/95.

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

- Sample CAMW5 was analyzed as the matrix spike/matrix spike duplicate (MS/MSD).
- The RSD of the initial calibration exceeded 20.5% for one analyte, but met the limit of 40%.
- %D for one analyte in the CCV of 10/7/05 exceeded 25%, but met the acceptance limit of 40%.

**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: October 12, 2005

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Ursula Middel  
Technical Manager

# H2M LABS, INC.

**SDG NARRATIVE FOR SEMIVOLATILES ANALYSES  
SAMPLES RECEIVED: 10/4/05  
SDG #: TOB053**

For Samples:

CAMW5 MS/MSD  
FB53

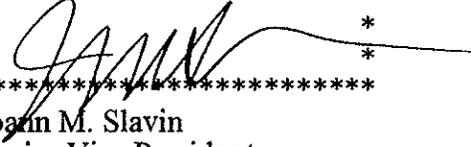
The above sample and field blank were analyzed for the TCL list of semivolatile analytes by EPA method 8270C in accordance with the NYSDEC ASP, Rev. 10/95.

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 CAMW5 was analyzed as the matrix spike/matrix spike duplicate (MS/MSD). Acenaphthene had a high RPD.
- Phenol had a 23% recovery (lower limit 25%) and 4-nitrophenol had a 19% recovery (lower limit 22%) in the LFB-14991.

**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: October 12, 2005

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Joan M. Slavin  
Senior Vice President

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TOB053 S22