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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

Letter of Transmittal

To: Ian Hofmann
Environmental Assessment & Remediations
225 Atlantic Avenue
Patchogue, NY 11772

From: Roberto Peraza

Date: 08-17-2012

Subject: Data Usability Summary Report for Project DEC-Uniondale1121

The Following Items Are Being Transmitted:

_____	Photographs	_____	Letter(s)
_____	Maps/ Plans	_____	Disk(s)
_____	Report(s)	X	Other: Data Packages

Originals	Copies	Description of Materials	Electronic/ Hard Copy
1		J40695-1 Ny_CatB_Package_Mini Final Report.pdf	Electronic
1		460-40695_COC.pdf	Electronic
1		460-40695-1_EquNysdec.xls	Electronic

These Materials Are Transmitted:

_____	For your use	_____	Approved as submitted
_____	For your approval	_____	Approved as noted
_____	For your review and comment	X	Returned after loaned to us
		_____	Returned for revision

Please:

_____	Return original to us	_____	Retain for your files
_____	Submit after revision	_____	Other:

Remarks:

Returned upon completion of review, approval, and validation of data. Copy of the EDD was created and renamed: 460-40695-1_EquNysdec_Validated.xls. The following samples were part of the package: May 24, 2012: MW-3, MW-7, MW-8, Field Blank -05-24-12 and Trip Blank.

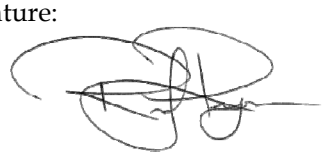
Additional Copies To:

_____

_____

_____

Signature:



August 17, 2012

Mr. Ian Hofmann
Environmental Assessment & Remediations
225 Atlantic Avenue
Patchogue, NY 11772

Re: DEC-Uniondale1121 Data Usability Summary Report for May 24, 2012 Ground Water Samples

The following data package with Analytical Report Number J40695 for project DEC-Uniondale1121 has been reviewed against the following two criteria: Completeness and Compliance. Please refer to the Criteria section of this report.

In relation to completeness, the data package, as received, was complete for all supporting documentation. In relation to compliance, the data package, as received, is in compliance with proper analytical testing practices, proper methodology, and reported in accordance to the New York State Department of Environmental Conservation Analytical Service Protocol (NYSDEC ASP) Category B Data Deliverable requirements. No other criteria were submitted like a Quality Assurance Project Plan or other data validation guidelines. This analytical report is in compliance to the following points:

1. Holding Time and Analysis Time
2. Sample Analysis:
    a. Tuning Instrument
    b. Calibration of Instrument
    c. Blank sample measurements
    d. Sample analyses
    e. Laboratory Control Samples and Continuing Calibration Samples
    f. Matrix Spike and Matrix Spike Duplicate Samples (if any)
    g. Duplication of sample results
    h. Calculations pre-quant and post-quant
    i. Proper integration practice
    j. Method integrity
    k. Overall system throughput in a logical timely manner

Enclosed is a summary of all the aforementioned points and the reasons for validating or rejecting parts or the entire data package. The provided EDD has also been validated such that it complies with the results reported and the NYSDEC EQUIS data format. If you have any questions, please feel free to contact us at ext. 146 or email LAB@enviro-asmnt.com.

Sincerely,

Roberto Peraza
Lead Technical Director/Chemist

Attachment(s)

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Criteria for Data Usability Summary Report

Completeness:

A complete data package is one that has all relevant and related material packaged for distribution to its client in accordance to the Analytical Service Protocol (ASP) Category B Deliverables guidelines. Relevant and related material is as follows: Sample Chains of Custody forms, Case narrative and all sample summary forms, QA/QC summaries including supporting documentation, all calibration data and supporting documentation, instrument and method performance data including equipment and process blanks, method detection limits for all target analytes for required matrices, data report forms with examples of calculations and the way in which these calculations determine final concentrations, and all raw data used in identifying and quantifying the contract specific target compounds.

Compliant:

A compliant data package is one that is determined to have all work that pertains to the production of the laboratory data in a manner that is consistent with the Quality Assurance Program Plan. The package must meet QA/QC criteria, instrument tune and calibration requirements under the time frame during which the analysis was completed, data reporting forms and all sample information pre-calculation and post-calculation, and all, if any, problems encountered during the analytical process and any corrective action(s) initiated by the laboratory to correct these problems.

General Method Quality Control Criteria (Water):

EPA Method 8260:

BFB every 12 hour period (reference method for tune values)
ICAL %RSD is $\leq$ 20% or has a coefficient of restitution (r^2) $\geq$ 0.99; depends on analyte.
ICV RRF is $\leq$ 25%
CCV %D is $\leq$ 30% [approximately 3% of analytes list may fail or approximately 2 compounds]
MB is $\leq$ RL (CRQL) or Not detected
LCS %R is between 70 to 130%
LCS/LCSD RPD is $\leq$ 30%
MS %R is variable for different analytes (reference ASP for values)
MS/MSD %RPD is variable for different analytes (reference ASP for values)
SMC %R is between 75 to 125%

EPA Method 8270:

DFTPP every 12-hour period (reference ASP for tune values)
ICAL %RSD is variable ($\leq$ 20 and 40%); depends on analyte
ICV RRF is variable ($\leq$ 25 and 40%); depends on analyte
CCV %D is variable ($\leq$ 25 and 40%); depends on analyte [4 allowed failures or approximately 6% of analyte list]
MB is $\leq$ RL or Not detected
LCS %R is variable; depends on analyte (reference ASP for values)
LCS/LCSD RPD is $\leq$50%
MS %R is variable for different analytes (reference ASP for values)
MS/MSD %RPD is variable for different analytes (reference ASP for values)
SMC %R is variable; depends on analyte (reference ASP for values)

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EPA Method 6010:

ICAL %RSD is ≤ 20% or has a coefficient of restitution (r^2) ≥ 0.99; depends on analyte.
ICV %R 90 to 110%
CCV %D is ≤ 20% [approximately 3% of analytes list may fail or approximately 2 compounds]
MB is ≤ RL (CRQL) or Not detected
ICS ±2X CRQL and ±20% interferents true value
LCS %R is between 80 to 120%
LCS/LCSD RPD is ≤ 20%
MS %R 75 to 125%
MS/MSD RPD ≤ 20%

EPA Method 7470:

ICAL %RSD is ≤ 20% or has a coefficient of restitution (r^2) ≥ 0.99; depends on analyte.
ICV %R 90 to 110%
CCV %D is ≤ 20% [approximately 3% of analytes list may fail or approximately 2 compounds]
MB is ≤ RL (CRQL) or Not detected
ICS ±2X CRQL and ±20% interferents true value
LCS %R is between 80 to 120%
LCS/LCSD RPD is ≤ 20%
MS %R 75 to 125%
MS/MSD RPD ≤ 20%

EPA Method 608:

ICAL for 5 congener, for combined congener and for native toxics
    ICAL %RSD is ≤ 20% or has a coefficient of restitution (r^2) ≥ 0.99; depends on analyte.
    ICV %R is 70 to 130%
CCV %D is ≤ 30% [approximately 3% of analytes list may fail or approximately 2 compounds]
MB is ≤ RL (CRQL) or Not detected
LCS %R is between 50 to 150%
LCS/LCSD RPD is ≤ 50%
MS %R is variable for different analytes (reference ASP for values)
MS/MSD %RPD is variable for different analytes (reference ASP for values)

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Data Validation Acronyms

AA	Atomic Absorption, Flame Technique
BHC	Hexachlorocylcohexane
BFB	Bromofluorobenzene (Tune check analyte)
CCC	Continuing Calibration Check
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
CVAA	Atomic Absorbtion, Cold Vapor
DCAA	2,4-Dichlorophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine (Tune check analyte)
DL	Detection Limit
ECD	Electron Capture Detector
FAA	Atomic Absorption, Furnace Technique
FID	Flame Ionization Detector
FNP	1-Fluoronapthalene
GC	Gas Chromatography
GC/MS	Gas Chromatography/ Mass Spectrometry
GPC	Gel Permeation Chromatography
ICB	Initial Calibration Blank
ICP-AES	Inductively Coupled Plasma – Atomic Emission Spectrometer
ICS	Interference Check Sample for ICP-AES
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ICAL	Initial Calibration Curve
IS	Internal Standard
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LCS/LCSD	Laboratory Control Sample/ Laboratory Control Sample Duplicate
MB	Method Blank
MS	Matrix Spike
MSA	Method of Standard Additions
MSD	Matrix Spike Duplicate
MS/MSD	Matrix Spike/ Matrix Spike Duplicate
ND	Non-detected or Not Detected
PID	Photo Ionization Detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
PQL	Practical Quantitation Limit
QA	Quality Assurance
QA/QC	Quality Assurance/ Quality Control
QC	Quality Control
RF	Response Factor
RPD	Relative Percent Difference
RL	Reporting Limit

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RRF	Relative Response Factor
RT	Retention Time
RRT	Relative Retention Time
SDG	Sample Delivery Group
SMC	System Monitoring Compounds/ Surrogates
SPCC	Sample Performance Check Compound
TCX	Tetrachloro-m-xylene
%D	Percent Drift
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation

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Data Validation Qualifiers

U	=	Not detected. The associated number indicates the approximate sample concentration necessary to be detected which is significantly greater than the level of the highest associated blank or listed method detection limit.
V	=	Analyte is present and reported value is valid and within the calibration range/control limits.
E	=	Analyte is present, but result is unreliable. Analyte has a high level of uncertainty. Reported value exceeds calibration range.
R	=	Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
N	=	Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
J	=	Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
UJ	=	Not detected, quantitation limit may be inaccurate or imprecise.
NT	=	Non-target compound. This analyte is not part of the requested list, but is part of the laboratory's calibration or quality control samples.

Note:
1. These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.
2. The EDDs are assigned these data validation qualifiers and refer to the valid value list supplied by the specific agency or informational data system.

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Data Usability Summary Report
EPA Method 8260

Sample Receipt and Condition

The laboratory, Test America Laboratories Inc., with NYDOH laboratory ID: 10602 was contracted to provide the analysis for four (4) water samples. The samples were collected on May 24, 2012 and were delivered to the laboratory on May 25, 2012 via the laboratory's shipping courier. The laboratory received the samples May 26, 2012. The samples were named by the client as follows: May 24, 2012: MW-3, MW-7, MW-8, Field Blank -05-24-12 and Trip Blank

The sample containers were maintained and received in good condition as indicated by the laboratory's Login Sample Receipt Checklist page 1315 of the analytical report. The sample labeled Trip Blank was not analyzed by the laboratory for semi-volatiles, PCB and metals. In addition, the Chain of Custody was not bundled with the report, which prompts an incomplete package. The laboratory was contacted and they submitted the Chain of Custody via email on July 26, 2012.

Holding Time and Analysis Time

The standard turnaround time to analyze samples for most laboratories is 10 business days from the date of receipt, unless otherwise noted (usually indicated/requested on the chain. Test America Laboratories Inc. has not exceeded this holding time. Holding times for water samples, collected with a preservative for EPA method 8260 is 14 days.

The lab analyzed has analyzed the samples within this time frame. Since the samples were analyzed within a reasonable time frame, sample integrity is not a concern and the laboratory is compliant.

Analysis and Quality Control

Instrument Performance Check:

An instrument performance sample (IPS) was analyzed in order to check the tune of the instrument "VOAMS1" on May 3, 2012 at 1:48. The tune covers the analysis of the calibration curve. Another IPS was analyzed on June 1, 2012 at 6:28. The tune covers the analysis of all quality control and client sample(s) (May 24, 2012: MW-3, MW-7, MW-8, Field Blank -05-24-12 and Trip Blank).

All method criteria pass as indicated on the test method and as indicated in NYSDEC ASP Exhibit E Table 1 page 165.

Calibration:

The initial calibration curve (ICAL) for instrument "VOAMS1" was obtained on May 3, 2012 at 4:11. The ICAL shows all target analytes under a 20% RSD. The laboratory has stricter passing criteria of $\leq$ 15% RSD.

Initial Calibration Verification (ICV):

The laboratory has used an ICV to validate the ICAL for instrument "VOAMS1". The ICV was run May 3, 2012 at 8:01. The ICV was not submitted as it is not a NYSDEC ASP requirement for the Category B package. The guidelines use the CCV for providing a basis for approving or re-running the calibration curve. Please see ICAL section for noting passing criteria.

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Continuing Calibration Verification (CCV):

A CCV sample was run on instrument "VOAMS1" and run on June 1, 2012 at 7:56. This batch contains sample(s) labeled as MW-3, MW-7, MW-8, Field Blank -05-24-12 and Trip Blank. The CCV has a general %D limit ±30%. All target compounds pass except for Dichlorodifluoromethane (-31.5). The NYSDEC ASP Exhibit E Table 2 has more flexible limit values ranging from 30% up to 50% for a variety of target analytes. Dichlorodifluoromethane has a % Drift limit of ±40%. The CCV therefore passes.

All analytes for the CCV have been properly quantified and all raw data is reported properly and within control limits.

Method Blank (MB):

A MB was run on instrument "VOAMS1" on June 1, 2012 at 11:55. Samples that were batched with this quality control sample were MW-3, MW-7, MW-8, Field Blank -05-24-12 and Trip Blank. The MB should not contain target compounds above the laboratory limit (please see reference criteria). All target analytes were non-detect.

All raw data including results, chromatograms and mass spectra were properly issued. All analytes were properly integrated in all MBs.

Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/ LCSD):

A LCS was run on instrument "VOAMS1" on June 1, 2012 at 10:45. Samples MW-3, MW-7, MW-8, Field Blank -05-24-12 and Trip Blank was batched with this quality control sample. All target analytes pass except.

Limits for the method analytes are set by the laboratory and can have wide ranges. Typical % Recovery limits are between 70 to 130%. All raw data including results, chromatograms and mass spectra were properly issued. All analytes were properly integrated in all LCS.

Matrix Spike/ Matrix Spike Duplicate (MS/MSD):

The laboratory is required to run one (1) MS/MSD every batch. The MS/MSD injection was performed on client sample MW-8 for batched analysis 114565. The MS/MSD passes, except for Acetone (174%) in the MS. The MSD passes for all target analytes. A comparison between the MS and MSD by the RPD passes for all analytes.

System Monitoring Compounds (SMC/Surrogates):

All SMC results are within control limits for all quality control samples and client samples. SMC retention times are also within acceptable limits. All raw data including results, chromatograms and mass spectra were properly issued. All analytes were properly integrated in the MS/ MSD samples.

Other Quality Assurance/Control:

Dilutions

No dilutions were performed on the client's samples. All raw data and integrations of the samples were properly performed and within the calibration range of the analytical instrument. All associated mass spectrums match reference mass spectral data for analytes that were reported as being present in the sample.

Tentatively Identified Compounds (TIC)

The following samples were reported to contain TIC: MW-3*(15), MW-7*(1), Field Blank -05-24-12*(2). These compounds were identified using the laboratory's mass spectral database library. The compounds were qualified using the quality values provided in the search in comparison to the spectrum peak ratios and

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concentration. For analytes that could not be qualified the compounds were labeled as "Unknown".

All compounds that were tentatively identified were reported with a quantified result. Is important to note that these results are relative to the internal standards and do not pose a high level of certainty. These results are estimates based on a relative standard. In addition, results were properly flagged with a "J" to indicate such uncertainty. If the analyte was identified, then it was flagged with an "N" to indicate a tentative identification. A few analytes may be part of the laboratory's calibration compounds. These analyte results are not estimates as they do have a full calibration curve to properly quantify the analyte.

Conclusion

All samples and data quality control were analyzed in a timely, sequential manner. The chromatographic data and mass spectral data is representative of properly integrated total ion chromatograms. All sample compound hits were properly identified in relation to their mass spectrum. The raw data and the representative data coincide to the extent that there are no discrepancies in the laboratory's reported results. All laboratory reporting limits have also been properly assigned.

There is a non-compliance in relation to an incomplete report in relation to the sample Chain of Custody. The report did not contain the Chain of Custody. The laboratory was contacted and the chain was supplied on July 26, 2012

In conclusion, the data reviewed in this report is usable and valid as it passes all stated criterion for completeness and compliance.

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Data Usability Summary Report
EPA Method 8270

Sample Receipt and Condition

The laboratory, Test America Laboratories Inc., with NYDOH laboratory ID: 10602 was contracted to provide the analysis for four (4) water samples. The samples were collected on May 24, 2012 and were delivered to the laboratory on May 25, 2012 via the laboratory's shipping courier. The laboratory received the samples May 26, 2012. The samples were named by the client as follows: May 24, 2012: MW-3, MW-7, MW-8, Field Blank -05-24-12 and Trip Blank

The sample containers were maintained and received in good condition as indicated by the laboratory's Login Sample Receipt Checklist page 1315 of the analytical report. The sample labeled Trip Blank was not analyzed by the laboratory for semi-volatiles, PCB and metals. In addition, the Chain of Custody was not bundled with the report, which prompts an incomplete package. The laboratory was contacted and they submitted the Chain of Custody via email on July 26, 2012.

Holding Time and Analysis Time

The standard turnaround time to analyze samples for most laboratories is 10 business days from the date of receipt, unless otherwise noted (usually indicated/requested on the chain. Test America Laboratories Inc. has not exceeded this holding time. Holding times for water samples, collected without a preservative for EPA method 8270 is 5 to 7 days to extract and perform the preparation method EPA method 3510. After extraction the laboratory sample holding time is 40 days. The lab prepared the samples on September 22, 2011, which is within the holding time. The samples were then analyzed within the 10-day turn-around time frame.

Analysis and Quality Control

Instrument Performance Check:

An instrument performance sample (IPS) for EPA method 8270 is Decafluorotriphenyl phosphine (DFTPP) and it was analyzed in order to check the tune of the instrument "BNAMS5" on May 20, 2012 at 18:02. The tune covers the analysis of the calibration curve and other quality control.

Instrument "BNAMS5" analyzed an IPS on May 30, 2012 at 19:28. The tune covers the analysis of client samples MW-3, MW-7, MW-8 and Field Blank -05-24-2012. The client sample labeled Trip Blank was not analyzed for this method. In addition, Trip Blank samples are mostly utilized for volatile analysis.

An instrument performance sample (IPS) for EPA method 8270 is Decafluorotriphenyl phosphine (DFTPP) and it was analyzed in order to check the tune of the instrument "BNAMS5" on May 31, 2012 at 11:41. The tune covers the analysis of the calibration curve and other quality control.

All method criteria for performance check samples pass as indicated in the test method and as indicated in NYSDEC ASP Exhibit E Table 1 page 187.

Calibration:

The ICAL for instrument "BNAMS5" was obtained on May 20, 2012 at 20:27. The ICAL shows all target analytes under the respective RSD as outlined in NYSDEC ASP Exhibit E Table 16.

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The ICAL for instrument "BNAMS5" was obtained on May 31, 2012 at 14:03. The ICAL shows all target analytes under the respective RSD as outlined in NYSDEC ASP Exhibit E Table 16.

Initial Calibration Verification (ICV):

The laboratory used an ICV to validate both ICALs for instrument "BNAMS5". The ICV was not submitted as it is not a NYSDEC ASP requirement for the Category B package. The CCV will be used as a basis for determining the passing or the continued use of the calibration curve when samples are not analyzed immediately upon having a passing ICAL.

Continuing Calibration Verification (CCV):

A CCV sample was analyzed for instrument "BNAMS5" on May 30, 2012 at 19:43. The CCV has general %D limit of ±30% for most analytes. All target compounds pass. All target analytes have been properly quantified and all raw data is reported properly and within control limits.

Method Blank (MB):

A MB was analyzed for batch 114084 on instrument "BNAMS5" on May 30, 2012 at 20:55. The MB should not contain target compounds above the laboratory limit (please see reference criteria). All target analytes were non-detect. All analytes have been properly quantified and all raw data is reported properly in relation to its reported value.

Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/ LCSD):

The LCS was analyzed for batch 114084 on instrument "BNAMS5" on May 31, 2012 at 14:46. The LCS has variable % Recovery limits for different analytes that range from 10 to 125%. The LCS passes for all a target analytes, except for 1,2-Dichlorobenzene (102%), Range: 57 to 98%; 1,2,4-Trichlorobenzene (99%), Range: 58 to 98%). When comparing to the LCSD, the LCSD passes for all target analytes. The RPD between the LCS/LCSD is within range. Samples with the two (2) out of range analytes were flagged with "*" to indicate it was out of control.

All analytes have been properly quantified and all raw data is reported properly and within control limits.

Matrix Spike/ Matrix Spike Duplicate (MS/MSD):

The laboratory is required to run one (1) MS/MSD every batch. The MS/MSD injection is performed on a random sample in a batched analysis. No client samples were spiked. The data result for the MS/MSD passes criteria. All analytes were properly quantified and all raw data was reported properly and within control limits.

System Monitoring Compounds (SMC/Surrogates):

All SMC results are within control limits for all quality control samples and client samples. SMC retention times are within acceptable limits.

Other Quality Assurance/Control:

Dilutions

No dilutions were performed. Due to the nature of the analysis, particularly to the extraction method, the sample has an inherent dilution, which is calculated and taken into account. This section refers to samples that are diluted in addition or in excess of the method procedure. Such extractions due cause elevated reporting limits

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as reflected in the laboratory's SOP. The laboratory's method detection limits and reporting limits are sufficient for this project's goals.

All raw data and integrations of these analytes were properly performed. All associated mass spectrums match reference mass spectral data for analytes that were reported as being present in the sample. Calculations that were performed on diluted samples provided proper results as reported. No discrepancies were found from the raw data to the reported data.

Tentatively Identified Compounds (TIC)

The following samples were reported to contain TIC: MW-3*(16), MW-7*(6). These compounds were properly identified using the mass spectral database library and properly qualifed using the values provided in the search. For analytes that could not be qualified the compounds were labeled "Unknown".

All compounds that were tentatively identified were reported with a quantified result. Is important to note that these results are relative to the internal standards and do not pose a high level of certainty. These results are estimates based on a relative standard. In addition, results were properly flagged with a "J" to indicate such uncertainty. If the analyte was identified, then it was flagged with an "N" to indicate a tentative identification. A few analytes may be part of the laboratory's calibration compounds. These analyte results are not estimates as they do have a full calibration curve to properly quantify the analyte.

Conclusion

All samples and data quality control were analyzed in a timely, sequential manner. The chromatographic data and mass spectral data is representative of properly integrated total ion chromatograms. All sample compound hits were properly identified in relation to their mass spectrum. The raw data and the representative data coincide to the extent that there are no discrepancies in the laboratory's reported results. All laboratory reporting limits have also been properly assigned.

There is a non-compliance in relation to an incomplete report in relation to the sample Chain of Custody. The report did not contain the Chain of Custody. The laboratory was contacted and the chain was supplied on July 26, 2012.

In conclusion, the data reviewed in this report is usable and valid as it passes all stated criterion for completeness and compliance.

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Data Usability Summary Report
EPA Method 6010

Sample Receipt and Condition

The laboratory, Test America Laboratories Inc., with NYDOH laboratory ID: 10602 was contracted to provide the analysis for four (4) water samples. The samples were collected on May 24, 2012 and were delivered to the laboratory on May 25, 2012 via the laboratory's shipping courier. The laboratory received the samples May 26, 2012. The samples were named by the client as follows: May 24, 2012: MW-3, MW-7, MW-8, Field Blank -05-24-12 and Trip Blank.

The sample containers were maintained and received in good condition as indicated by the laboratory's Login Sample Receipt Checklist page 1315 of the analytical report. The sample labeled Trip Blank was not analyzed by the laboratory for semi-volatiles, PCB and metals. In addition, the Chain of Custody was not bundled with the report, which prompts an incomplete package. The laboratory was contacted and they submitted the Chain of Custody via email on July 26, 2012.

Holding Time and Analysis Time

The standard turnaround time to analyze samples for most laboratories is 10 business days from the date of receipt, unless otherwise noted (usually indicated/requested on the chain. Test America Laboratories Inc. has not exceeded this holding time. Holding times for water samples, collected without a preservative for EPA method 6010 is 180 days to extract and perform the preparation method EPA method 3010. After extraction the laboratory sample holding time is 360 days. The lab prepared the samples on May 30, 2012, which is within the holding time. The samples were then analyzed within the 10-day turn-around time frame.

Analysis and Quality Control

Calibration:

The ICAL for instrument "ICP4" was obtained on May 30, 2012 at 19:25. The ICAL shows all target analytes at $r^2 \geq 0.99$.

Initial Calibration Verification (ICV):

The laboratory used an ICV to validate ICALs for instrument "ICP4". ICV %R is 90 to 110%. The ICV passes for all target metal analytes.

Initial Check Sample (ICS):

The laboratory used an ICS to check the %R of individual solutions in the advent of interference. ICS for solution A, which carries the most common interfering analytes should have a %R is 90 to 110%. The ICSA passes for all related target metal analytes. The ICS for solution mix A and B, noted AB, has a %R range of 90 to 110%. The ICSAB passes for all related target metal analytes.

Continuing Calibration Verification (CCV):

A CCV sample was analyzed for instrument "ICP4" on May 30, 2012 at 20:12. The CCV has general %D limit of ±20% for all analytes. All target compounds pass. Another CCV sample was analyzed on May 30, 2012 at 20:55. All target compounds pass. Another CCV sample was analyzed on May 30, 2012 at 21:39. These continued checks cover all client samples and related quality control.

All target analytes have been properly quantified and all raw data is reported properly and within control limits.

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Calibration Blank (CB):

A CB was analyzed on instrument "ICP4" on May 30, 2012 at 19:11. The CB is used as part of the calibration for the zero-point concentration. All analytes have been properly quantified and all raw data is reported properly in relation to its reported value.

Initial Calibration Blank (ICB):

An ICB was analyzed on instrument "ICP4" on May 30, 2012 at 19:32. The ICB is used to determine the system is free of analytes post analysis of the ICV. The ICB should not contain target compounds above the laboratory limit (please see reference criteria). All target analytes were non-detect. All analytes have been properly quantified and all raw data is reported properly in relation to its reported value.

Calibration Check Blank (CCB):

An CCB was analyzed on instrument "ICP4" on May 30, 2012 at 20:15. The CCB is used to determine that the instrument is free of contamination potential left from the CCV. The CCB should not contain target compounds above the laboratory limit (please see reference criteria). All target analytes were non-detect. Another CCB was analyzed on May 30, 2012 at 20:59. All analytes were non-detect. Another CCB was analyzed on May 30, 2012 at 21:42. All analytes were non-detect.

All analytes have been properly quantified and all raw data is reported properly in relation to its reported value.

Method Blank (MB):

A MB was analyzed for batch 114190 on instrument "ICP4" on May 30, 2012 at 20:19. The MB should not contain target compounds above the laboratory limit (please see reference criteria). All target analytes were non-detect. All analytes have been properly quantified and all raw data is reported properly in relation to its reported value.

Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/ LCSD):

The LCS was analyzed for batch 114190 on instrument "ICP4" on May 30, 2012 at 20:08. The LCS has variable % Recovery limits for different analytes that range from 80 to 120%. The LCS passes for all a target metal analytes.

All analytes have been properly quantified and all raw data is reported properly and within control limits.

Matrix Spike:

The laboratory is required to run one (1) MS every batch. The MS injection is performed on a random sample in a batched analysis. No client samples were spiked. The data result for the MS passes criteria. All analytes were properly quantified and all raw data was reported properly and within control limits.

Other Quality Assurance/Control:

Dilutions

No dilutions were performed. No discrepancies were found from the raw data to the reported data.

Conclusion

All samples and data quality control were analyzed in a timely, sequential manner. The raw data and the representative data coincide to the extent that there are

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no discrepancies in the laboratory's reported results. All laboratory reporting limits have also been properly assigned.

There is a non-compliance in relation to an incomplete report in relation to the sample Chain of Custody. The report did not contain the Chain of Custody. The laboratory was contacted and the chain was supplied on July 26, 2012.

In conclusion, the data reviewed in this report is usable and valid as it passes all stated criterion for completeness and compliance.

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Data Usability Summary Report
EPA Method 7470

Sample Receipt and Condition

The laboratory, Test America Laboratories Inc., with NYDOH laboratory ID: 10602 was contracted to provide the analysis for four (4) water samples. The samples were collected on May 24, 2012 and were delivered to the laboratory on May 25, 2012 via the laboratory's shipping courier. The laboratory received the samples May 26, 2012. The samples were named by the client as follows: May 24, 2012: MW-3, MW-7, MW-8, Field Blank -05-24-12 and Trip Blank.

The sample containers were maintained and received in good condition as indicated by the laboratory's Login Sample Receipt Checklist page 1315 of the analytical report. The sample labeled Trip Blank was not analyzed by the laboratory for semi-volatiles, PCB and metals. In addition, the Chain of Custody was not bundled with the report, which prompts an incomplete package. The laboratory was contacted and they submitted the Chain of Custody via email on July 26, 2012.

Holding Time and Analysis Time

The standard turnaround time to analyze samples for most laboratories is 10 business days from the date of receipt, unless otherwise noted (usually indicated/requested on the chain. Test America Laboratories Inc. has not exceeded this holding time. Holding times for water samples, collected without a preservative for EPA method 6010 is 26 days to extract and perform the preparation method EPA method 7470. After extraction the laboratory sample holding time is 26 days. The lab prepared the samples on June 7, 2012 which is within the holding time.

Analysis and Quality Control

Calibration:

The ICAL for instrument "LEEMAN5" was obtained on June 7, 2012 at 19:41. The ICAL shows the mercury analyte at $r^2 \geq 0.99$.

Initial Calibration Verification (ICV):

The laboratory used an ICV to validate ICALs for instrument "LEEMAN5" on June 7, 2012 at 19:43. ICV %R is 90 to 110%. The ICV passes for mercury analyte.

Continuing Calibration Verification (CCV):

A CCV sample was analyzed for instrument "LEEMAN5" on June 7, 2012 at 20:07. The CCV has general %D limit of ±20% or a %R of 90 to 110% for mercury. Mercury passes. Another CCV sample was analyzed on June 7, 2012 at 20:30. Mercury passes. Another CCV sample was analyzed on June 7, 2012 at 20:46. Mercury passes. Another CCV sample was analyzed on June 7, 2012 at 21:02. Mercury passes. Another CCV sample was analyzed on June 7, 2012 at 21:20. Mercury passes. These continued checks cover all client samples and related quality control.

Mercury has been properly quantified and all raw data is reported properly and within control limits.

Initial Calibration Blank (ICB):

An ICB was analyzed on instrument "LEEMAN5" on June 7, 2012 at 19:45. The ICB is used to determine the system is free of mercury post analysis of the ICV. The ICB should not contain mercury above the laboratory limit (please see reference

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criteria). Mercury was non-detect. All analytes have been properly quantified and all raw data is reported properly in relation to its reported value.

Calibration Check Blank (CCB):

An CCB was analyzed on instrument "LEEMAN5" on June 7, 2012 at 20:10. The CCB is used to determine that the instrument is free of contamination potential left from the CCV. The CCB should not contain mercury above the laboratory limit (please see reference criteria). Mercury was non-detect. Another CCB was analyzed on June 7, 2012 at 20:32. Mercury was non-detect. Another CCB was analyzed on June 7, 2012 at 20:32. Mercury was non-detect. Another CCB was analyzed on June 7, 2012 at 20:48. Mercury was non-detect. Another CCB was analyzed on June 7, 2012 at 21:04. Mercury was non-detect. Another CCB was analyzed on June 7, 2012 at 21:23. Mercury was non-detect.

Mercury was properly quantified and all raw data is reported properly in relation to its reported value.

Method Blank (MB):

A MB was analyzed for batch 115294 on instrument "LEEMAN5" on June 7, 2012 at 20:49. The MB should not contain Mercury above the laboratory limit (please see reference criteria). Mercury was non-detect. Mercury was properly quantified and all raw data is reported properly in relation to its reported value.

Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/ LCSD):

The LCS was analyzed for batch 115294 on instrument "LEEMAN5" on June 7, 2012 at 20:51. The LCS has variable % Recovery limits for different analytes that range from 80 to 120%. The LCS passes for mercury.

Mercury has been properly quantified and all raw data is reported properly and within control limits.

Other Quality Assurance/Control:

Dilutions

No dilutions were performed. No discrepancies were found from the raw data to the reported data.

Conclusion

All samples and data quality control were analyzed in a timely, sequential manner. The raw data and the representative data coincide to the extent that there are no discrepancies in the laboratory's reported results. All laboratory reporting limits have also been properly assigned.

There is a non-compliance in relation to an incomplete report in relation to the sample Chain of Custody. The report did not contain the Chain of Custody. The laboratory was contacted and the chain was supplied on July 26, 2012.

In conclusion, the data reviewed in this report is usable and valid as it passes all stated criterion for completeness and compliance.

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Data Usability Summary Report
EPA Method 608

Sample Receipt and Condition

The laboratory, Test America Laboratories Inc., with NYDOH laboratory ID: 10602 was contracted to provide the analysis for four (4) water samples. The samples were collected on May 24, 2012 and were delivered to the laboratory on May 25, 2012 via the laboratory's shipping courier. The laboratory received the samples May 26, 2012. The samples were named by the client as follows: May 24, 2012: MW-3, MW-7, MW-8, Field Blank -05-24-12 and Trip Blank.

The sample containers were maintained and received in good condition as indicated by the laboratory's Login Sample Receipt Checklist page 1315 of the analytical report. The sample labeled Trip Blank was not analyzed by the laboratory for semi-volatiles, PCB and metals. In addition, the Chain of Custody was not bundled with the report, which prompts an incomplete package. The laboratory was contacted and they submitted the Chain of Custody via email on July 26, 2012.

Holding Time and Analysis Time

The standard turnaround time to analyze samples for most laboratories is 10 business days from the date of receipt, unless otherwise noted (usually indicated/requested on the chain. Test America Laboratories Inc. has not exceeded this holding time. Holding times for water samples, collected without a preservative for EPA method 608 is 14 days to extract and perform the preparation method EPA method 608. After extraction the laboratory sample holding time is 40 days. The lab prepared the samples on June 7, 2012 which is within the holding time.

Analysis and Quality Control

Calibration:

The ICAL for instrument "PESTGC6" was divided into various times and dates due to the nature of the analyte analysis. There are twelve (12) unique calibrations. The first eleven (11) are for specific compounds. The last calibration curve includes twenty-two (22) analytes calibrated at five (5) levels. All calibration curves were obtained and run on two (2) columns.

The first calibration curve was obtained on April 18, 2012 at 12:04 for Aroclor 1221. The compound has 8 peaks calibrated at 1000 ug/L. The curve has a coefficient of restitution greater than or equal 0.99 ($r^2 \geq 0.99$). All the peaks are within the retention time control limits set by the laboratory for both columns.

The second calibration curve was obtained on April 18, 2012 at 12:16 for Aroclor 1232. The compound has 8 peaks calibrated at 1000 ug/L. The curve has a coefficient of restitution greater than or equal 0.99 ($r^2 \geq 0.99$). All the peaks are within the retention time control limits set by the laboratory for both columns.

The third calibration curve was obtained on April 18, 2012 at 12:55 for Aroclor 1254. The compound has 8 peaks calibrated at 1000 ug/L. The curve has a coefficient of restitution greater than or equal 0.99 ($r^2 \geq 0.99$). All the peaks are within the retention time control limits set by the laboratory for both columns.

The fourth calibration curve was obtained on April 18, 2012 at 13:08 for Aroclor 1262. The compound has 8 peaks calibrated at 1000 ug/L. The curve has a coefficient of restitution greater than or equal 0.99 ($r^2 \geq 0.99$). All the peaks are within the retention time control limits set by the laboratory for both columns.

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The fifth calibration curve was obtained on April 18, 2012 at 13:21 for Aroclor 1268. The compound has 8 peaks calibrated at 1000 ug/L. The curve has a coefficient of restitution greater than or equal 0.99 ($r^2 \geq 0.99$). All the peaks are within the retention time control limits set by the laboratory for both columns.

The sixth calibration curve was obtained on April 19, 2012 at 10:20 for Aroclor 1248. The compound has 8 peaks calibrated at 5 levels: 100, 500, 1000, 1500 and 2500 ug/L. The curve has a coefficient of restitution greater than or equal 0.99 ($r^2 \geq 0.99$) for all peaks. All the peaks are within the retention time control limits set by the laboratory for both columns.

The seventh calibration curve was obtained on April 25, 2012 at 12:24 for Toxaphane. The compound has 8 peaks calibrated at 5 levels: 200, 500, 1000, 1500 and 2500 ug/L. The curve has a coefficient of restitution greater than or equal 0.99 ($r^2 \geq 0.99$) for all peaks. All the peaks are within the retention time control limits set by the laboratory for both columns.

The eighth calibration curve was obtained on April 25, 2012 at 13:31 for Chloradane. The compound has 8 peaks calibrated at 5 levels: 100, 500, 1000, 1500 and 2500 ug/L. The curve uses a weighted average whose %RSD generally be ≤ 20%. The laboratory has stricter limits set at ≤ 10%. All peaks are within limit. All the peaks are also within the retention time control limits set by the laboratory for both columns.

The ninth calibration curve was obtained on May 1, 2012 at 11:02 for Aroclor 1242. The compound has 8 peaks calibrated at 5 levels: 100, 500, 1000, 1500 and 2500 ug/L. The curve has a coefficient of restitution greater than or equal 0.99 ($r^2 \geq 0.99$) for all peaks. All the peaks are within the retention time control limits set by the laboratory for both columns.

The tenth calibration curve was obtained on May 1, 2012 at 11:02 for Aroclor 1242. The compound has 8 peaks calibrated at 5 levels: 100, 500, 1000, 1500 and 2500 ug/L. The curve has a coefficient of restitution greater than or equal 0.99 ($r^2 \geq 0.99$) for all peaks. All the peaks are within the retention time control limits set by the laboratory for both columns.

The eleventh calibration curve was obtained on May 7, 2012 at 12:13 for Aroclor 1016 and Aroclor 1260. The compound has 8 peaks calibrated at 5 levels: 100, 500, 1000, 1500 and 2500 ug/L. The curve has a coefficient of restitution greater than or equal 0.99 ($r^2 \geq 0.99$) for all peaks. All the peaks are within the retention time control limits set by the laboratory for both columns.

The twelfth calibration curve was obtained on May 30, 2012 at 10:01 for twenty-two (22) analytes. Each compound has 8 peaks calibrated at 5 levels: 4, 50, 100, 250 and 500 ug/L. The curve has a coefficient of restitution greater than or equal 0.99 ($r^2 \geq 0.99$) for peaks that have a quadratic or linear fit. For analytes that are not quadratic or linear and have a weighted average, the %RSD is below the laboratory's limit of 10% for all analytes. All the peaks are within the retention time control limits set by the laboratory for both columns.

Continuing Calibration Verification (CCV):

A CCV sample was analyzed for instrument "PESTGC6" on May 30, 2012 at 10:39. The CCV has general %D limit of ±20% for all target analytes. The laboratory has stricter %D limits set at ±15%. All analytes pass. Another CCV sample was analyzed for the Aroclor 1016 and Aroclor 1260 mix on May 30, 2012 at 11: 05. The laboratory has a %D limit ±15%. All analytes pass.

The CCVs has been properly quantified and all raw data is reported properly and within control limits.

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Performance Evaluation Mixture (PEM):

A PEM is used to evaluate the breakdown of certain compounds. The two (2) primary compounds that are analyzed and calculated for is Endrine and its derivatives and 4,4'-DDT and its derivates. These compounds should have an allowable breakdown percentage of ≤ 20%. The PEM passes as both analytes and its derivative show less than 20% breakdown.

Method Blank (MB):

A MB was analyzed for batch 114367 on instrument "PESTGC6" on May 30, 2012 at 11:18. The MB should not contain analytes above the laboratory limit (please see reference criteria). All target analytes were non-detect. All analytes were properly quantified and all raw data is reported properly in relation to its reported value.

Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/ LCSD):

The LCS was analyzed for batch 114367 on instrument "PESTGC6" on May 30, 2012 at 11:30. The LCS has variable % Recovery limits for different analytes that range from 80 to 120%. The analytes injected in the control sample pertain to calibration curve twelve, which contains twenty-two (22) analytes. The LCS passes for all target analytes.

An LCSD was analyzed for batch 114367 on instrument "PESTGC6" on May 30, 2012 at 11:43. The LCSD has variable % Recovery limits for different analytes that range from 80 to 120%. The analytes injected in the control sample pertain to calibration curve twelve, which contains twenty-two (22) analytes. The LCSD passes for all target analytes.

In comparing the two control samples (LCS/LCSD) through the %RSD. The %RSD limit is ≤ 40%. The %RSD for these samples is below the limit and therefore passes.

All analytes have been properly quantified and all raw data is reported properly and within control limits.

Other Quality Assurance/Control

Dilutions

No dilutions were performed. No discrepancies were found from the raw data to the reported data.

Conclusion

All samples and data quality control were analyzed in a timely, sequential manner. The raw data and the representative data coincide to the extent that there are no discrepancies in the laboratory's reported results. All laboratory reporting limits have also been properly assigned.

There is a non-compliance in relation to an incomplete report in relation to the sample Chain of Custody. The report did not contain the Chain of Custody. The laboratory was contacted and the chain was supplied on July 26, 2012.

In conclusion, the data reviewed in this report is usable and valid as it passes all stated criterion for completeness and compliance

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Site: DEC-Uniondale1121

Group#	Date Submitted	Date Analyzed	ASP Proto No.	Sample No.	Matrix	Test Method	Data Usable	In Compliance	Non-Compliance
J40695	05/25/12	05/30/12	NYSDEC ASP Category B	MW-3	Water	EPA 608	Yes	Yes	---
J40695	05/25/12	05/30/12	NYSDEC ASP Category B	MW-7	Water	EPA 608	Yes	Yes	---
J40695	05/25/12	05/30/12	NYSDEC ASP Category B	MW-8	Water	EPA 608	Yes	Yes	---
J40695	05/25/12	05/30/12	NYSDEC ASP Category B	Field Blank - 05-24-2012	Water	EPA 608	Yes	Yes	---

Group #: Refers to the sample deliverable group number provided by the laboratory to identify the group of samples submitted to them in the Chain of Custody form.

Date Submitted: It is the date the sample(s) were submitted for analysis.

Date Analyzed: It is the date the sample(s) were analyzed.

ASP Proto No.: Refers to the type of data package requested and reviewed by client

Sample No.: Refers to the laboratory sample ID given to the submitted samples

Matrix: Refers to the medium of the analyzed samples.

Test Method: The analysis that was performed on the sample as requested in the Chain of Custody form.

Data Usability: Determines whether the data is usable to the extent of the expressed accuracy and precision.

In Compliancy: Yes or no answer determining whether the sample under the category and the analytes to which they belong were compliance to the criterion mentioned above.

Non-Compliance: Comment regarding the referenced violation when “In Compliance” field is “No”. Commentary is placed in a referenced section.

Site: DEC-Uniondale1121

Group#	Date Submitted	Date Analyzed	ASP Proto No.	Sample No.	Matrix	Test Method	Data Usable	In Compliance	Non-Compliance
J40695	05/25/12	05/30/12	NYSDEC ASP Category B	MW-3	Water	EPA 6010B	Yes	Yes	---
J40695	05/25/12	05/30/12	NYSDEC ASP Category B	MW-7	Water	EPA 6010B	Yes	Yes	---
J40695	05/25/12	05/30/12	NYSDEC ASP Category B	MW-8	Water	EPA 6010B	Yes	Yes	---
J40695	05/25/12	05/30/12	NYSDEC ASP Category B	Field Blank - 05-24-2012	Water	EPA 6010B	Yes	Yes	---

Group #: Refers to the sample deliverable group number provided by the laboratory to identify the group of samples submitted to them in the Chain of Custody form.

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ASP Proto No.: Refers to the type of data package requested and reviewed by client

Sample No.: Refers to the laboratory sample ID given to the submitted samples

Matrix: Refers to the medium of the analyzed samples.

Test Method: The analysis that was performed on the sample as requested in the Chain of Custody form.

Data Usability: Determines whether the data is usable to the extent of the expressed accuracy and precision.

In Compliancy: Yes or no answer determining whether the sample under the category and the analytes to which they belong were compliance to the criterion mentioned above.

Non-Compliance: Comment regarding the referenced violation when “In Compliance” field is “No”. Commentary is placed in a referenced section.

Site: DEC-Uniondale1121

Group#	Date Submitted	Date Analyzed	ASP Proto No.	Sample No.	Matrix	Test Method	Data Usable	In Compliance	Non-Compliance
J40695	05/25/12	06/07/12	NYSDEC ASP Category B	MW-3	Water	EPA 7074A	Yes	Yes	---
J40695	05/25/12	06/07/12	NYSDEC ASP Category B	MW-7	Water	EPA 7074A	Yes	Yes	---
J40695	05/25/12	06/07/12	NYSDEC ASP Category B	MW-8	Water	EPA 7074A	Yes	Yes	---
J40695	05/25/12	06/07/12	NYSDEC ASP Category B	Field Blank - 05-24-2012	Water	EPA 7074A	Yes	Yes	---

Group #: Refers to the sample deliverable group number provided by the laboratory to identify the group of samples submitted to them in the Chain of Custody form.

Date Submitted: It is the date the sample(s) were submitted for analysis.

Date Analyzed: It is the date the sample(s) were analyzed.

ASP Proto No.: Refers to the type of data package requested and reviewed by client

Sample No.: Refers to the laboratory sample ID given to the submitted samples

Matrix: Refers to the medium of the analyzed samples.

Test Method: The analysis that was performed on the sample as requested in the Chain of Custody form.

Data Usability: Determines whether the data is usable to the extent of the expressed accuracy and precision.

In Compliancy: Yes or no answer determining whether the sample under the category and the analytes to which they belong were compliance to the criterion mentioned above.

Non-Compliance: Comment regarding the referenced violation when “In Compliance” field is “No”. Commentary is placed in a referenced section.

Site: DEC-Uniondale1121

Group#	Date Submitted	Date Analyzed	ASP Proto No.	Sample No.	Matrix	Test Method	Data Usable	In Compliance	Non-Compliance
J40695	05/25/12	05/31/12	NYSDEC ASP Category B	MW-3	Water	EPA 8270C	Yes	Yes	---
J40695	05/25/12	05/31/12	NYSDEC ASP Category B	MW-7	Water	EPA 8270C	Yes	Yes	---
J40695	05/25/12	05/31/12	NYSDEC ASP Category B	MW-8	Water	EPA 8270C	Yes	Yes	---
J40695	05/25/12	05/31/12	NYSDEC ASP Category B	Field Blank - 05-24-2012	Water	EPA 8270C	Yes	Yes	---

Group #: Refers to the sample deliverable group number provided by the laboratory to identify the group of samples submitted to them in the Chain of Custody form.

Date Submitted: It is the date the sample(s) were submitted for analysis.

Date Analyzed: It is the date the sample(s) were analyzed.

ASP Proto No.: Refers to the type of data package requested and reviewed by client

Sample No.: Refers to the laboratory sample ID given to the submitted samples

Matrix: Refers to the medium of the analyzed samples.

Test Method: The analysis that was performed on the sample as requested in the Chain of Custody form.

Data Usability: Determines whether the data is usable to the extent of the expressed accuracy and precision.

In Compliancy: Yes or no answer determining whether the sample under the category and the analytes to which they belong were compliance to the criterion mentioned above.

Non-Compliance: Comment regarding the referenced violation when “In Compliance” field is “No”. Commentary is placed in a referenced section.

Site: DEC-Uniondale1121

Group#	Date Submitted	Date Analyzed	ASP Proto No.	Sample No.	Matrix	Test Method	Data Usable	In Compliance	Non-Compliance
J40695	05/25/12	06/01/12	NYSDEC ASP Category B	MW-3	Water	EPA 8260B	Yes	Yes	---
J40695	05/25/12	06/01/12	NYSDEC ASP Category B	MW-7	Water	EPA 8260B	Yes	Yes	---
J40695	05/25/12	06/01/12	NYSDEC ASP Category B	MW-8	Water	EPA 8260B	Yes	Yes	---
J40695	05/25/12	06/01/12	NYSDEC ASP Category B	Field Blank - 05-24-2012	Water	EPA 8260B	Yes	Yes	---
J40695	05/25/12	06/01/12	NYSDEC ASP Category B	Trip Blank	Water	EPA 8260B	Yes	Yes	---

Group #: Refers to the sample deliverable group number provided by the laboratory to identify the group of samples submitted to them in the Chain of Custody form.

Date Submitted: It is the date the sample(s) were submitted for analysis.

Date Analyzed: It is the date the sample(s) were analyzed.

ASP Proto No.: Refers to the type of data package requested and reviewed by client

Sample No.: Refers to the laboratory sample ID given to the submitted samples

Matrix: Refers to the medium of the analyzed samples.

Test Method: The analysis that was performed on the sample as requested in the Chain of Custody form.

Data Usability: Determines whether the data is usable to the extent of the expressed accuracy and precision.

In Compliancy: Yes or no answer determining whether the sample under the category and the analytes to which they belong were compliance to the criterion mentioned above.

Non-Compliance: Comment regarding the referenced violation when “In Compliance” field is “No”. Commentary is placed in a referenced section.

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: I Hofmann	**Field Sampler:** KS PL	**TAT Required (business days):** 30-day	**Lab PM/Contact:** Lam D
Company: EAR	**Mobile/Field Number:**		**Lab Job Number (Lab Use Only):**
Address: 225 Atlantic AVE	**E-Mail:**	**Deliverable Type (Report/EDD):** CAT B	**Passed Rad Screen (Lab Use Only):** [ ] Yes [ ] No
City, State, Zip: Patchogue NY 11772	**PO #:**	**Sample Disposal:** [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	**Cooler Temperatures (Lab Use Only):**
Phone: 631-447-6400	**WO #:**		
Email:	**Project #:** 13084	**State Regulatory QC Criteria Requirements:** NYSDEC, ASP CAT. B.	
Project Name/Site Location (State): DEC-UNIONDALE 121	**SSOW#:**		

COC Number: 13111
Page 1 of 1
Carrier Tracking Notes: 40695

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

Analysis (Attach list if more space is needed)

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix (Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other)	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	VOC 8260 (3 vials)	SVOC 8270 (1-liter Amber)	PCB + Pesticides (1-liter Amber)	500 Pb Ni Cd (HNO3) Metals	Comments
	MW-3	5-24-12	0950	Aq		4		1	3				X	X	X	X	1
	MW-7	5-24-12	1112	Aq		4		1	3				X	X	X	X	2
	MW-8	5-24-12	1216	Aq		4		1	3				X	X	X	X	3
	Field Blank-05.24-12	5-24-12	0950	Aq		4		1	3				X	X	X	X	4
																	5

Relinquished by: Kelly Lewis	Date/Time: 5-24-12 1500	Company: EAR	Received by: EAR Sample Fridge	Date/Time: 5-24-12 1500	Company: EAR
Relinquished by: Jen Warner	Date/Time: 5-25-12 13:00	Company: EAR	Received by: Albert Arcuri	Date/Time: 5/25/12 1300	Company: TAT
Relinquished by: Jen Capece	Date/Time: 5/25/12 17:15	Company: TACT	Received by:	Date/Time:	Company

Comments: Yedon 5/26/12 5/26/12

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

1.9 2.4 C M 50

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-40695-1

SDG No.:

Lab Sample ID: CCVIS 460-114565/2 Calibration Date: 06/01/2012 07:56

Instrument ID: VOAMS1 Calib Start Date: 05/03/2012 02:31

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 05/03/2012 04:11

Lab File ID: a76648.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2793	0.1912		13.7	20.0	-31.5	50.0
Chloromethane	Ave	0.4044	0.3817	0.1000	18.9	20.0	-5.6	50.0
Vinyl chloride	Ave	0.4381	0.3592		16.4	20.0	-18.0	20.0
Bromomethane	LinF	0.2626	0.1758		14.4	20.0	-27.8	50.0
Chloroethane	Ave	0.2478	0.2394		19.3	20.0	-3.4	50.0
Trichlorofluoromethane	Ave	0.4519	0.4025		17.8	20.0	-10.9	50.0
n-Pentane	Ave	0.0519	0.0562		21.6	20.0	8.2	50.0
Ethyl ether	Ave	0.2645	0.3032		22.9	20.0	14.6	50.0
Ethanol	Ave	0.0016	0.0018		3290	3000	9.8	50.0
Isopropene	Ave	0.4070	0.4577		22.5	20.0	12.4	50.0
Acrolein	LinF	0.0497	0.0403		40.4	40.0	1.0	99.0
Freon TF	Ave	0.2816	0.2738		19.5	20.0	-2.7	50.0
1,1-Dichloroethene	Ave	0.2490	0.2236		18.0	20.0	-10.2	20.0
Acetone	Ave	0.0850	0.1207		28.4	20.0	41.9	50.0
Iodomethane	Ave	0.4577	0.3639		15.9	20.0	-20.5	50.0
Carbon disulfide	Ave	1.005	0.8850		17.6	20.0	-12.0	50.0
Methyl acetate	Ave	0.3184	0.3917		24.6	20.0	23.0	50.0
Acetonitrile	Ave	0.0081	0.0112		548	400	37.0	50.0
Methylene Chloride	LinF	0.3465	0.3329		21.5	20.0	7.3	50.0
TBA	Ave	0.0329	0.0314		381	400	-4.7	50.0
MTBE	Ave	0.9379	0.8715		18.6	20.0	-7.1	50.0
trans-1,2-Dichloroethene	Ave	0.3024	0.2682		17.7	20.0	-11.3	50.0
Acrylonitrile	Ave	0.1319	0.1591		24.1	20.0	20.6	50.0
Hexane	Ave	0.3197	0.3445		21.6	20.0	7.8	50.0
DIPE	Ave	1.185	1.263		21.3	20.0	6.6	50.0
1,1-Dichloroethane	Ave	0.5825	0.6246	0.1000	21.4	20.0	7.2	50.0
Vinyl acetate	Ave	0.7881	0.7739		19.6	20.0	-1.8	50.0
Tert-butyl ethyl ether	Ave	1.100	1.115	0.0100	20.3	20.0	1.3	50.0
2,2-Dichloropropane	Ave	0.4939	0.4660		18.9	20.0	-5.6	50.0
cis-1,2-Dichloroethene	Ave	0.3289	0.3066		18.6	20.0	-6.8	50.0
2-Butanone	Ave	0.0338	0.0402		23.8	20.0	18.8	50.0
Ethyl acetate	Ave	0.0291	0.0296		40.6	40.0	1.5	50.0
Bromochloromethane	Ave	0.1531	0.1341		17.5	20.0	-12.4	50.0
Tetrahydrofuran	Ave	0.1039	0.1122		21.6	20.0	8.0	50.0
Chloroform	Ave	0.5217	0.5323		20.4	20.0	2.0	20.0
Cyclohexane	Ave	0.6110	0.6194		20.3	20.0	1.4	50.0
1,1,1-Trichloroethane	Ave	0.4495	0.4439		19.8	20.0	-1.2	50.0
Carbon tetrachloride	Ave	0.3719	0.3652		19.6	20.0	-1.8	50.0
1,1-Dichloropropene	Ave	0.4455	0.4050		18.2	20.0	-9.1	50.0
Benzene	Ave	1.816	1.958		21.6	20.0	7.8	50.0
Isopropyl acetate	Ave	0.7780	0.8555		44.0	40.0	10.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-40695-1

SDG No.:

Lab Sample ID: CCVIS 460-114565/2 Calibration Date: 06/01/2012 07:56

Instrument ID: VOAMS1 Calib Start Date: 05/03/2012 02:31

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 05/03/2012 04:11

Lab File ID: a76648.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tert-amyl methyl ether	Ave	0.9528	0.9495		19.9	20.0	-0.3	50.0
1,2-Dichloroethane	Ave	0.3908	0.4355		22.3	20.0	11.5	50.0
n-Heptane	Ave	0.2621	0.2923		22.3	20.0	11.5	50.0
n-Butanol	Ave	0.0079	0.0075		1420	1500	-5.2	50.0
Trichloroethene	Ave	0.2915	0.2790		19.1	20.0	-4.3	50.0
Ethyl acrylate	Ave	0.3875	0.4128		21.3	20.0	6.5	50.0
Methylcyclohexane	Ave	0.5646	0.5486		19.4	20.0	-2.8	50.0
1,2-Dichloropropane	Ave	0.3275	0.3576		21.8	20.0	9.2	20.0
Methyl methacrylate	Ave	0.0727	0.0593		16.3	20.0	-18.5	50.0
Propyl acetate	Ave	0.4308	0.4738		44.0	40.0	10.0	50.0
1,4-Dioxane	Ave	0.0031	0.0030		146	150	-2.6	50.0
Dibromomethane	Ave	0.1729	0.1679		19.4	20.0	-2.9	50.0
Bromodichloromethane	Ave	0.3857	0.3868		20.1	20.0	0.3	50.0
2-Chloroethyl vinyl ether	Ave	0.0815	0.0638		15.6	20.0	-21.8	50.0
Epichlorohydrin	Ave	0.0386	0.0415		430	400	7.4	50.0
cis-1,3-Dichloropropene	Ave	0.7047	0.7299		20.7	20.0	3.6	50.0
4-Methyl-2-pentanone	Ave	0.4623	0.5192		22.5	20.0	12.3	50.0
Toluene	Ave	1.926	1.937		20.1	20.0	0.6	20.0
trans-1,3-Dichloropropene	Ave	0.6157	0.6200		20.1	20.0	0.7	50.0
1,1,2-Trichloroethane	Ave	0.3013	0.3369		22.4	20.0	11.8	50.0
Tetrachloroethene	Ave	0.4178	0.4012		19.2	20.0	-4.0	50.0
1,3-Dichloropropane	Ave	0.6360	0.6970		21.9	20.0	9.6	50.0
2-Hexanone	Ave	0.2864	0.3305		23.1	20.0	15.4	50.0
Butyl acetate	Ave	0.1193	0.1168		39.2	40.0	-2.1	50.0
Dibromochloromethane	Ave	0.3802	0.3768		19.8	20.0	-0.9	50.0
1,2-Dibromoethane	Ave	0.3481	0.3382		19.4	20.0	-2.9	50.0
Chlorobenzene	Ave	1.117	1.160	0.3000	20.8	20.0	3.8	50.0
Ethylbenzene	Ave	0.6297	0.6438		20.4	20.0	2.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4391	0.4239		19.3	20.0	-3.5	50.0
m&p-Xylene	Ave	0.8141	0.8051		39.6	40.0	-1.1	50.0
Butyl acrylate	LinF	0.3577	0.3084		17.8	20.0	-10.8	50.0
o-Xylene	Ave	0.8231	0.8118		19.7	20.0	-1.4	50.0
Styrene	Ave	1.338	1.323		19.8	20.0	-1.1	50.0
Amly acetate	Ave	1.136	1.325		23.3	20.0	16.6	50.0
Bromoform	Ave	0.2446	0.2403	0.1000	19.6	20.0	-1.8	50.0
Isopropylbenzene	Ave	2.126	2.126		20.0	20.0	-0.0	50.0
Camphene, Total	LinF	0.2293	0.3057		26.8	20.0	33.9	50.0
1,1,2,2-Tetrachloroethane	Ave	0.998	1.083	0.3000	21.7	20.0	8.5	50.0
Monobromobenzene	Ave	0.9280	0.8205		17.7	20.0	-11.6	50.0
N-Propylbenzene	Ave	4.820	4.970		20.6	20.0	3.1	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2958	0.2541		17.2	20.0	-14.1	50.0

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-40695-1

SDG No.:

Matrix: Water Level: Low Lab File ID: x26571.d

Lab ID: LCS 460-114084/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Phenol	100	34.4	34	12-44	
2-Chlorophenol	100	91.3	91	53-101	
2-Methylphenol	100	77.0	77	40-90	
4-Methylphenol	100	64.7	65	30-75	
2-Nitrophenol	100	95.1	95	65-107	
2,4-Dimethylphenol	100	86.5	86	55-100	
2,4-Dichlorophenol	100	98.0	98	64-107	
4-Chloro-3-methylphenol	100	90.6	91	57-106	
2,4,6-Trichlorophenol	100	89.3	89	67-111	
2,4,5-Trichlorophenol	100	91.7	92	67-114	
2,4-Dinitrophenol	100	95.0	95	19-113	
4-Nitrophenol	100	29.1 J	29	10-44	
4,6-Dinitro-2-methylphenol	100	99.8	100	58-115	
Pentachlorophenol	100	98.4	98	55-116	
Bis(2-chloroethyl)ether	100	102	102	62-108	
1,3-Dichlorobenzene	100	84.7	85	54-97	
1,4-Dichlorobenzene	100	83.7	84	56-98	
1,2-Dichlorobenzene	100	102	102	57-98	*
N-Nitrosodi-n-propylamine	100	95.1	95	70-109	
Hexachloroethane	100	86.7	87	50-99	
Nitrobenzene	100	101	101	66-106	
Isophorone	100	79.4	79	68-108	
Bis(2-chloroethoxy)methane	100	92.2	92	69-108	
1,2,4-Trichlorobenzene	100	98.9	99	58-98	*
Naphthalene	100	99.5	99	63-101	
4-Chloroaniline	100	79.2	79	58-105	
Hexachlorobutadiene	100	96.5	97	52-99	
2-Methylnaphthalene	100	86.8	87	66-102	
Hexachlorocyclopentadiene	100	70.2	70	40-105	
2-Chloronaphthalene	100	87.1	87	65-107	
2-Nitroaniline	100	102	102	73-116	
Dimethyl phthalate	100	91.4	91	69-111	
Acenaphthylene	100	86.8	87	67-107	
2,6-Dinitrotoluene	100	95.7	96	68-114	
3-Nitroaniline	100	91.6	92	59-108	
Acenaphthene	100	105	105	66-108	
Dibenzofuran	100	99.5	100	68-105	
2,4-Dinitrotoluene	100	89.8	90	65-113	
Diethyl phthalate	100	89.0	89	66-109	
4-Chlorophenyl phenyl ether	100	94.2	94	68-105	
Fluorene	100	94.1	94	68-105	
4-Nitroaniline	100	90.1	90	49-119	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-40695-1

SDG No.:

Matrix: Water Level: Low Lab File ID: x26571.d

Lab ID: LCS 460-114084/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
N-Nitrosodiphenylamine	100	99.8	100	71-121	
4-Bromophenyl phenyl ether	100	93.6	94	66-110	
Hexachlorobenzene	100	91.9	92	65-107	
Phenanthrene	100	104	104	68-110	
Anthracene	100	102	102	68-108	
Carbazole	100	97.7	98	67-110	
Di-n-butyl phthalate	100	91.7	92	68-111	
Fluoranthene	100	93.7	94	68-108	
Pyrene	100	88.7	89	61-110	
Butyl benzyl phthalate	100	96.4	96	66-115	
3,3'-Dichlorobenzidine	100	121	121	69-129	
Benzo[a]anthracene	100	91.8	92	65-106	
Chrysene	100	97.0	97	68-112	
Bis(2-ethylhexyl) phthalate	100	97.0	97	66-114	
Di-n-octyl phthalate	100	84.2	84	51-115	
Benzo[b]fluoranthene	100	82.9	83	65-111	
Benzo[k]fluoranthene	100	83.6	84	66-114	
Benzo[a]pyrene	100	88.2	88	58-101	
Indeno[1,2,3-cd]pyrene	100	75.4	75	68-121	
Dibenz(a,h)anthracene	100	84.5	85	67-124	
Benzo[g,h,i]perylene	100	97.6	98	65-134	
bis (2-chloroisopropyl) ether	100	99.2	99	68-107	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-40695-1

SDG No.:

Lab Sample ID: CCVIS 460-114565/2 Calibration Date: 06/01/2012 07:56

Instrument ID: VOAMS1 Calib Start Date: 05/03/2012 02:31

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 05/03/2012 04:11

Lab File ID: a76648.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.2622	0.2703		20.6	20.0	3.1	50.0
2-Chlorotoluene	Ave	3.166	3.161		20.0	20.0	-0.1	50.0
1,3,5-Trimethylbenzene	Ave	3.373	3.256		19.3	20.0	-3.5	50.0
Butyl Methacrylate	Ave	1.139	1.181		20.7	20.0	3.7	50.0
4-Chlorotoluene	Ave	2.865	3.008		21.0	20.0	5.0	50.0
tert-Butylbenzene	Ave	2.765	2.589		18.7	20.0	-6.3	50.0
1,2,4-Trimethylbenzene	Ave	3.467	3.388		19.5	20.0	-2.3	50.0
2-Octanone	Ave	1.835	2.320		25.3	20.0	26.4	50.0
2-Octanol	QuaF	0.6746	0.5624		18.9	20.0	-5.6	50.0
sec-Butylbenzene	Ave	4.397	4.476		20.4	20.0	1.8	50.0
p-Isopropyltoluene	Ave	3.707	3.592		19.4	20.0	-3.1	50.0
1,3-Dichlorobenzene	Ave	1.843	1.775		19.3	20.0	-3.7	50.0
1,4-Dichlorobenzene	Ave	1.857	1.813		19.5	20.0	-2.3	50.0
Benzyl chloride	Ave	2.134	1.843		17.3	20.0	-13.6	50.0
n-Butylbenzene	Ave	3.645	3.788		20.8	20.0	3.9	50.0
1,2-Dichlorobenzene	Ave	1.822	1.734		19.0	20.0	-4.9	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1656	0.1918		23.2	20.0	15.8	50.0
Camphor	LinF	0.1132	0.0818		63.2	100	-36.8	50.0
1,2,4-Trichlorobenzene	Ave	1.350	1.216		18.0	20.0	-9.9	50.0
Hexachlorobutadiene	Ave	0.6756	0.5943		17.6	20.0	-12.0	50.0
Naphthalene	Ave	2.744	2.657		19.4	20.0	-3.2	50.0
1,2,3-Trichlorobenzene	Ave	1.105	1.047		19.0	20.0	-5.2	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2765	0.3277		59.3	50.0	18.5	50.0
Toluene-d8 (Surr)	Ave	1.261	1.373		54.4	50.0	8.9	50.0
Bromofluorobenzene	Ave	0.7695	0.7050		45.8	50.0	-8.4	50.0